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YAMAHA COMMERCIAL AUDIO FULL CATALOGUE 2023



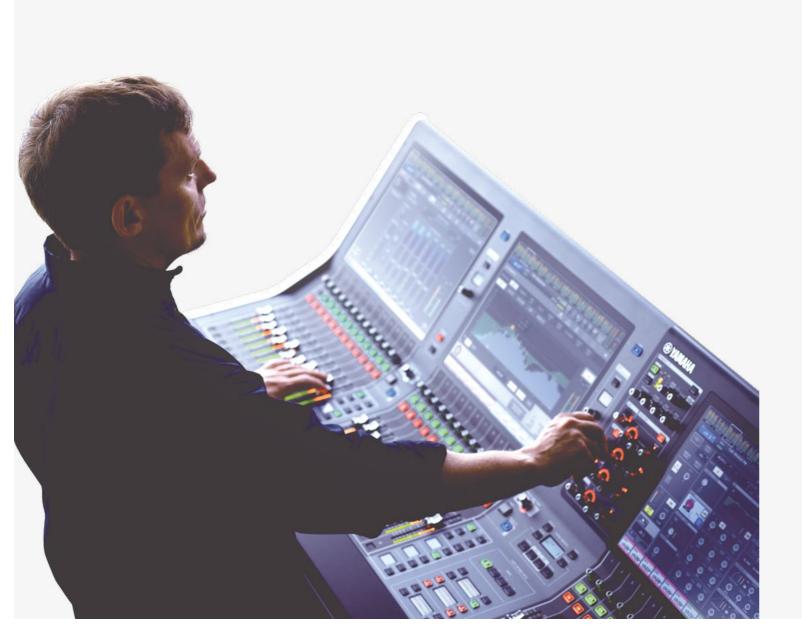
WELCOME!

THANK YOU FOR CONSIDERING TO USE ONE OR MORE YAMAHA PROFESSIONAL AUDIO PRODUCTS FOR YOUR PROJECT!

This product catalogue is designed as a tool to select and compare products and to verify and confirm that selected products meet project specifications. the catalogue is structured in main product categories: loudspeakers, power amplifiers, signal processors, mixing consoles, networked infrastructure, presenting also acoustic enhancement and remote communication systems. within those categories, product families are presented in a single spread providing a quick introduction, selected detail views and quick specification lists. at the end of each category a unified detailed specification list is presented, allowing easy comparison between products.

We hope this product catalogue helps you in the process to dsign and to realize fantastic live sound systems. in case you have any further questions or need engineering support please contact our staff listed at the end of this catalogue.

LET'S MAKE WAVES TOGETHER!



PRODUCTS



PASSIVE LOUDSPEAKERS

POWERED LOUDSPEAKER



PORTABLE PA SYSTEMS



POWER AMPLIFIERS



DIGITAL MIXING PROCES



ACTIVE FIELD CONTROL



NETWORKED MIXING SYS

DANTE I/O INFRASTRUCT



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LIVE STREAMING / GAMI



ANALOGUE MIXERS





PRODUCTS FOR UNIFIED

AUDIO VIDEO COMPONEN

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PASSIVE LOUDSPEAKERS

CREATING A PLEASANT SONIC ENVIRONMENT IS EVERY BIT AS IMPORTANT AS LIGHTING, DÉCOR AND AROMA IN ANY SPACE. With over 50 years of producing passive loudspeakers, today Yamaha's range of passive loudspeakers is so large that it would be difficult not to find a model which meets your needs. From shopping malls and hotels to restaurants, pubs and clubs, they are the sonic backbone of a huge variety of retail, hospitality and entertainment venues.

Yamaha is well known for the legendary NS10 nearfield monitor. Used to mix literally thousands of hit records, today this legacy continues to grow with a diverse range of passive speakers designed to bring clear, uncoloured sound to every kind of installation. With high and low impedance operation, multi-tap versatility and more, the Yamaha range includes several types of ceiling speaker, as well as a range of compact surface mounted models, all designed to deliver great sound while minimising visual impact.

Of course YAMAHA PASSIVE SPEAKERS are just as at home in the corporate environment. Slimline VXL series line array speakers are a key component in the ADECIA audio conferencing solution and are ideal for presentations where clear, precise sound and maximised sightlines are important.

And if you need high SPL sound reinforcement, stage monitoring or professional quality headphones, you can rely on Yamaha passives to make waves in just the way you want.



VXS SERIES COMPACT MODELS



CONFERENCE

SURFACE MOUNT SPEAKERS



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HIGH QUALITY SURFACE MOUNT SPEAKERS

Combining excellent sound quality and flexible installation workflow, the VXS SERIES is designed especially for the commercial installation market. The VXS SERIES comprise two sizes of surface mount cabinets available in black and white colour, including brackets and internal 100V transformers. The matching subwoofer is available with and without internal 100V transformer, featuring a dual voice coil speaker for easy stereo configuration. All models come with overload protection circuits. The VXS SERIES comes with IP35 splash resistant paintable speaker enclosures, grilles and brackets supporting any interior and exterior design. For applications requiring Voice Alarm functionality, the VXS 2-way models are also available as VA models with EN54-24 certification.

KEY FEATURES

- TWO FULL-RANGE MODELS AND SUBWOOFERS AVAILABLE IN BLACK AND WHITE.
- SURFACE MOUNT BRACKETS INCLUDED.
- PAINTABLE SPEAKER BODIES, GRILLES AND BRACKETS
- INTERNAL 100V TRANSFORMER (EXCEPT VXS10S AND VXS3F MODEL), OVERLOAD PROTECTION
- VXS5 AND VXS8 MODELS: IP35 SPLASH RESISTANT
- VXS5 AND VXS8 MODELS: EN54-24 CERTIFIED VA VERSIONS AVAILABLE



VXS VA MODELS EN54-24 CERTIFICATE

DETAILS





VXS3F, VXS5, VXS8 MOUNTING ACCESSORIES (INCLUDED)







VXS3 REAR PANEL

QUICK SPECIFICATIONS

	VXS3F (T)	VXS5 (VA)	VXS8 (VA)	VXS10S(T)
TRANSDUCERS	3.5" full range	5.25" + 0.75" 2-way	8" + 1" 2-way	10" dual voice coil subwoofer
POWER RATING (NOISE)	20 W	75 W	90 W	100 W + 100 W
TRANSFORMER TAPS (100V)	(T: 15 W, 7.5 W, 3.5 W)	30 W, 15 W, 7.5 W	60 W, 30 W, 15 W	200 W, 100 W, 50 W (T model only)
SENSITIVITY @1W,1M	86 dB SPL	89 dB SPL (VA: 88 dB SPL)	91 dB SPL (VA: 89 dB SPL)	96 dB SPL
PEAK SPL	105 dB SPL	114 dB SPL (VA: 113 dB SPL)	117 dB SPL (VA: 115 dB SPL)	125 dB SPL
FREQUENCY RANGE (-10 DB)	130 Hz - 20 kHz	62 Hz - 20 kHz	51 Hz - 20 kHz	45 Hz - 250 Hz
NOMINAL COVERAGE	150° x 150°	120° x 120°	100° x 100°	-
TERMINALS	4P Euroblock (T: 2P barrier strip)	4P Euroblock (VA: 3P ceramic)	4P Euroblock (VA: 3P ceramic)	2 x 4P Euroblock
MEASURES W X H X D	176 x 280 x 163 mm	176 x 280 x 163 mm	278 x 430 x 239 mm	260 x 500 x 389 mm
WEIGHT	1.1 kg (T: 1.7 kg)	3.6 kg	8.2 kg	16.5 kg (T: 19.5 kg)
COLOUR	black, white			
INCLUDED ACCESSORIES	wall mount bracket (T: transformer)	wall mount bracket, terminal cover	wall mount bracket, terminal cover	wall mount bracket



VXS5, VXS8 REAR PANEL



VXS10S REAR PANEL



VXS5VA, VXS8VA REAR PANEL



PAGING

VXS SERIES COMPACT MODELS

SURFACE MOUNT SPEAKERS

SSERIES M





CONFERENCE



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COMPACT SURFACE MOUNT SPEAKERS

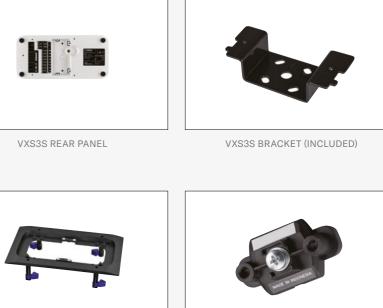
An elegant environment depends on more than just décor and lighting. Sound plays a vital role as well. VXS SERIES "M" models combine sophisticated sound and design in compact surface-mount speakers that will make a significant contribution to the most refined, elegant spaces. While the sound of some compact speaker systems is a compromise, the innovative VXS SERIES "M" models are designed in every detail, from driver to enclosure, to deliver the finest possible sound quality in the smallest possible space, with elegant that will blend beautifully in any interior. The key to extraordinary sonic performance is a small 1.5-inch full-range driver unit. Technology and expertise accumulated over 50 years of speaker development and production has been liberally applied in a speaker that delivers exceptional clarity and astonishing musical realism. First you'll be surprised by this speaker's looks, and then by its extraordinary sound.

KEY FEATURES

- VXS1ML MINI SATELLITE 1.5" FULL RANGE SPEAKER
- VXS3S COMPACT 3.5" SUBWOOFER
- MINIMALISTIC DESIGN WITH SUPERIOR SOUND QUALITY
- WALL & CEILING MOUNT BRACKET INCLUDED
- PAINTABLE, AVAILABLE IN BLACK AND WHITE
- OPTIONAL FLUSH MOUNT AND RAIL MOUNT KITS

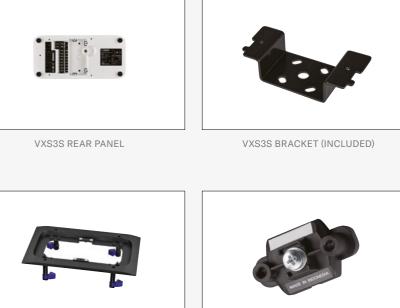
DETAILS





VXS1ML REAR PANEL





CMA1MB / CMA1MW CEILING MOUNT ADAPTER FOR VXS1ML (OPTION)

CMA3SB / CMA3SW CEILING MOUNT ADAPTER FOR VXS3S (OPTION)

OUICK SPECIFICATIONS

	VXS1ML	VXS3S
TRANSDUCERS	1.5"	3.5"
POWER RATING (NOISE)	5 W	20 W
TRANSFORMER TAPS (100V)	-	15 W, 7.5 W, 3.8 W
SENSITIVITY @1 W, 1 M	79 dB SPL	79 dB SPL
PEAK SPL	92 dB SPL	98 dB SPL
FREQUENCY RANGE (-10 DB)	180 Hz - 20 kHz	65 Hz - 180 Hz
NOMINAL COVERAGE	170°	-
TERMINALS	2P Euroblock	4P Euroblock
MEASURES W X H X D	62 x 62 x 82 mm	322 x 162 x 118 mm
WEIGHT	0.17 kg	2.7 kg
COLOUR	black,	white
INCLUDED ACCESSORIES	mounting bracket	mounting bracket, safety wire

RMA1MB RAIL MOUNT ADAPTER FOR VXS1ML (OPTION)

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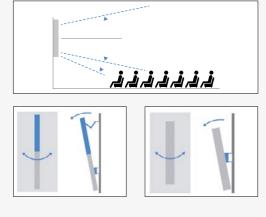
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VXL SERIES

SLIM LINE ARRAYS

COMPACT HIGH QUALITY SURFACE MOUNT LINE ARRAYS

High quality sound with visual discretion are two of the key demands for installed loudspeakers in acoustically challenging spaces such as houses of worship, boardrooms, lecture theatres and many other situations. Featuring IP35-rated, paintable enclosures in black or white, the VXL slim line array series use arrays of the same 1.5" driver, with a high impedance 100V transformer available as option. All models measure just 54mm wide by 104mm deep, slim enough to support installation even in the most demanding interior designs. Ranging from 8 drivers up to 24 drivers for a single array, the VXL SERIES produces tight vertical dispersion for maximum speech intelligibility even in reverberant spaces, while supporting also music when combined with VXS subwoofers. For very demanding applications such as cathedrals and large public spaces, multiple **VXL** cabinets can be stacked for even tighter coverage. The VXL16 model is also available as powered PoE Dante version.





KEY FEATURES

- HIGH QUALITY COMPACT 1.5" DRIVERS DELIVER EXCELLENT SOUND
- 54MM TOTAL WIDTH ENCLOSURE TO BLEND IN WITH ANY INTERIOR DESIGN
- OPTIONAL BRACKETS FOR VERTICAL AND HORIZONTAL STACKED ARRAYS
- OPTIONAL WALL MOUNT BRACKETS FOR 2-AXIS ADJUSTMENT
- 100V TRANSFORMER OPTION
- VXL1-16P DANTE PoE POWERED SPEAKER MODEL



ST-L1 TRANSFORMER (OPTION) TAPS: 60W, 30W, 15W

DETAILS





VXL1-16 AND VXL1-16P REAR PANELS



WMB-L1 2-AXIS ADJUSTMENT WALL BRACKET (OPTION)



HCB-L1 / VCB-L1 HORIZONTAL / VERTICAL COUPLING BRACKET (OPTION)

QUICK SPECIFICATIONS

	VXL1-8	VXL1-16	VXL1-24	VXL1-16P
TRANSDUCERS	8 x 1,5"	16 x 1,5"	24 x 1,5"	16 x 1,5"
POWER RATING (NOISE)	40 W	80 W	110 W	15 W (PoE+), 6 W (PoE)
SENSITIVITY @1 W ,1 M	89 dB SPL	91 dB SPL	91 dB SPL	-
PEAK SPL	111 dB SPL	116 dB SPL	117 dB SPL	102 dB SPL
FREQUENCY RANGE (-10 DB)	70 Hz - 20 kHz	81 Hz - 20 kHz	77 Hz - 20 kHz	80 Hz - 20 kHz
NOMINAL COVERAGE H X V	170° x 40°	170° x 25°	170° x 15°	170° x 25°
TERMINALS	2 x 2P barrier strip	2 x 2P barrier strip	2 x 2P barrier strip	RJ45
MEASURES W X H X D	54 x 480 x 104 mm	54 x 846 x 104 mm	54 x 1212 x 104 mm	54 x 1120 x 104 mm
WEIGHT	2.1 kg	3.9 kg	5.5 kg	5.0 kg
COLOUR		black	, white	
INCLUDED ACCESSORIES		wall b	racket	
AUDIO NETWORK PROTOCOL (VXL1-16P ONLY)		-		Dante
DUST AND WATER RESISTANT	IP33 (IP35 with port cover)	IP34 (IP35 with port cover)	IP34 (IP35 with port cover)	-

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WALL MOUNT BRACKET (INCLUDED)



PA-L1 POLE MOUNT BRACKET (OPTION)



VCS-L1 VERTICAL COUPLING SUPPORT BRACKET (OPTION)



VXC SERIES

CEILING MOUNT SPEAKERS







HIGH QUALITY CEILING MOUNT SPEAKERS

Combining esuperior sound quality and flexible installation workflow, the VXC SERIES are designed especially for the high quality segments of the commercial installation market. The VXC SERIES comprises three sizes of ceiling mount cabinets available in black and white grille colour, inlcuding O-ring and tile rail mounting accessories (except for VXC8S subwoofer) as well as an advanced carrying band and anti-drop tab mechanism to facilitate easy, fast and safe installation. All models feature a metal back can and include internal 100V transformers and overload protection circuits. Finally, the VXC SERIES comes with paintable speaker grilles supporting any interior design. A subwoofer is available to support optimal distribution of low frequencies. For applications requiring Voice Alarm functionality, the VXC4, VXC6, VXC8 are also available as VA models with EN54-24 certification.

KEY FEATURES

- THREE FULL-RANGE MODELS AND SUBWOOFER AVAILABLE IN EITHER BLACK OR WHITE
- O-RING AND TILE RAIL INCLUDED (EXCEPT FOR VXC8S SUBWOOFER)
- PAINTABLE SPEAKER GRILLES
- INTERNAL 100V TRANSFORMER, OVERLOAD PROTECTION
- CARRYING BAND AND ANTI-DROP TAB MECHANISM PROVIDE SECURE TEMPORARY POSITIONING DURING INSTALLATION
- VXC4, VXC6 AND VXC8: EN54-24 CERTIFIED VA VERSIONS AVAILABLE

DETAILS





O-RING AND TILE RAIL INCLUDED (EXCEPT FOR VXC8S: AB-C8S)







REAR PANEL

REAR PANEL (VA MODELS)

QUICK SPECIFICATIONS

	VXC4 (VA)	VXC6 (VA)	VXC8 (VA)	VXC8S
TRANSDUCERS	4" full range	5.5" + 0.75"	8" + 1"	8"
POWER RATING (NOISE)	30 W	75 W	90 W	100 W
TRANSFORMER TAPS (100V)	30 W, 15 W, 7.5 W	60 W, 30 W, 15 W	60 W, 30 W, 15 W	60 W, 30 W, 15 W
SENSITIVITY @1 W, 1 M	87 dB SPL (VA: 87 dB) SPL	86 dB SPL (VA: 86 dB SPL)	90 dB SPL (VA: 89 dB SPL)	88 dB SPL
PEAK SPL	108 dB SPL (VA: 108 dB SPL)	111 dB SPL (VA: 111 dB SPL)	116 dB SPL (VA: 114 dB SPL)	114 dB
FREQUENCY RANGE (-10 DB)	80 Hz - 20 kHz	56 Hz - 20 kHz	55 Hz - 20 kHz	44 Hz - 200 Hz
NOMINAL COVERAGE	130°	110°	100°	-
TERMINALS	4P Euroblock (VA: 3P ceramic)	4P Euroblock (VA: 3P ceramic)	4P Euroblock (VA: 3P ceramic)	2 x 4P Euroblock
MEASURES O X D	225 x 195 mm	286 x 205 mm	325 x 259 mm	324 x 314 mm
WEIGHT	2.6 kg	4.4 kg	6.6 kg	8.7 kg
COLOUR		black,	white	
INCLUDED ACCESSORIES	C	0-ring, Tile rail, cut out temp	late	cut-out template



PENDANT-MOUNT KIT FOR VXC4





TRANSFORMER TAP SELECTOR



PAGING

VXC SERIES F MODELS

LOW PROFILE CEILING MOUNT SPEAKERS



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EXCELLENT SOUND QUALITY FOR LOW PROFILE CEILINGS

Combining excellent sound quality and flexible installation workflow, the VXC SERIES F MODELS are designed especially for applications with low profile ceilings. The VXC SERIES F MODELS comprises three sizes of ceiling mount cabinets available in black and white grille colour, including O-ring and tile rail mounting accessories (except for VXC2F) as well as an advanced carrying band and anti-drop tab mechanism to facilitate easy, fast and safe installation. To support zoning with high ceilings an elegant pendant kit is available as option. All models inlcude internal 100 V transformers and overload protection circuits. Finally, the VXC SERIES F MODELS comes with paintable speaker grilles supporting any interior design. For applications requiring Voice Alarm functionality, the VXC-F models are also available as VA models with EN54-24 certification. Black and white versions available.

KEY FEATURES

- THREE FULL-RANGE MODELS AVAILABLE IN EITHER BLACK OR WHITE.
- CARRYING BAND AND ANTI-DROP TAB MECHANISM PROVIDE SECURE TEMPORARY **POSITIONING DURING INSTALLATION**
- O-RING AND TILE RAIL INCLUDED (EXCEPT FOR VXC2F)
- PAINTABLE SPEAKER GRILLES WITH MAGNETIC CATCHES
- INTERNAL 100V TRANSFORMER, OVERLOAD PROTECTION
- EN54-24 CERTIFIED VA VERSIONS AVAILABLE FOR VXC3F AND VXC5F



VXC-F VA MODELS EN54-24 CERTIFICATE

DETAILS





O-RING AND TILE RAIL INCLUDED (EXCEPT FOR VXC2F: AB-C2)



TRANSFORMER TAP SELECTOR

ANTI-DROP TAB

OUICK SPECIFICATIONS

	VXC2F	VXC3F (VA)	VXC5F (VA)
TRANSDUCERS	2.5"	3.5"	4.5"
POWER RATING (NOISE)	15 W	20 W	40 W
TRANSFORMER TAPS (100V)	15 W, 7.5 W, 3.8 W, 1.9 W	15 W, 7.5 W, 3.8 W	30 W, 15 W, 7.5 W, 3.8 W
SENSITIVITY @1 W, 1 M	86 dB SPL	87 dB SPL (VA: 86 dB SPL)	89 dB SPL (VA: 87 dB SPL)
PEAK SPL	104 dB SPL	106 dB SPL (VA: 105 dB SPL)	111 dB SPL (VA: 109 dB SPL)
FREQUENCY RANGE (-10 DB)	67 Hz - 20 kHz	71 Hz - 20 kHz	60 Hz - 20 kHz
NOMINAL COVERAGE	160°	140°	130°
TERMINALS	4P Euroblock	4P Euroblock (VA: 3P ceramic)	4P Euroblock (VA: 3P ceramic)
MEASURES O X D	225 x 89 mm	285 x 112 mm	324 x 143 mm
WEIGHT	1.7 kg	2.5 kg	3.1 kg
COLOUR		black, white	
INCLUDED ACCESSORIES	Cutout Template	O-ring, Tile Rail, Cutout	Template, Terminal Cover



REAR PANEL

PK-C4 PENDANT-MOUNT KIT (OPTION FOR VXC2F)



VXH SERIES

PENDULUM SPEAKERS

PAGING





VXH6 FRONT

(WITHOUT GRILLE)



VXH6/8 BACK PANEL





VXH8 FRONT (WITHOUT GRILLE) VXH6/8 GRILLE (BLACK, WHITE)

STUNNING SOUND FROM ANY CEILING

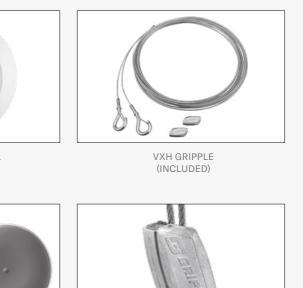
VXH SERIES pendant speakers are an ideal choice for open-structure or sloped ceilings, adding versatility for a variety of environments and sonic needs. Two models are available: the wide-dispersion 6.5-inch VXH6 for use where the speakers are to be suspended at a relatively low position, and the high-power 8-inch VXH8 with narrower dispersion for higher suspension positions. You can select or mix and match models to achieve the best sound and coverage in any application.

QUICK SPECIFICATIONS

	VXH6	VXH8				
TRANSDUCERS	6.5" + 1"	8" + 1"				
POWER RATING (NOISE)	75 W	90 W				
TRANSFORMER TAPS (100 V)	60 W / 30 W / 15 W	60 W / 30 W / 15 W				
SENSITIVITY @1 W, 1 M	93 dB	94 dB				
PEAK SPL	118 dB	120 dB				
FREQUENCY RANGE (-10 DB)	55 Hz - 20 kHz	57 Hz - 20 kHz				
NOMINAL COVERAGE	120°	75°				
MEASURES O X D	341 x 379 mm	356 x 434 mm				
WEIGHT	5.7 kg	7.2 kg				
COLOUR	black, white					
CERTIFICATES	IP45, UL1480A, NFPA70, CE, RoHS					
INCLUDED ACCESSORIES	black, white					

KEY FEATURES

- NARROW AND WIDE DISPERSION MODELS
- PENDANT SPEAKER SUITABLE FOR HIGH, OPEN STRUCTURE OR SLOPED CEILINGS
- DIRECT SUPPORT FOR LOW-IMPEDANCE OR HIGH-IMPEDANCE CONNECTIONS
- PAINTABLE GRILLES WITH MAGNETIC CATCHES
- 2 X 6 M STEEL WIRE CABLES BY GRIPPLE INCLUCED
- BLACK AND WHITE VERSIONS AVAILABLE







GRIPPLE LOCK



VC SERIES

CEILING SPEAKERS

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PREMIUM SOUNDING COMPACT CEILING SPEAKERS AT A NON-PREMIUM PRICE

VC SERIES CEILING SPEAKERS for commercial installations deliver excellent sound quality at a price point traditionally reserved for economy speakers. A total of six models, three with back cans and three without, feature elegant low-profile designs that can be install easily even in limited ceiling or wall spaces. Shallow, lightweight, and flexible design can easily adapt to the strictest installation limitations, ensuring superb audio performance wherever they're placed without spoiling interior design. Large mounting clamps with non-slip treads ensure secure mounting. Both high-impedance and low-impedance connections are supported, and speaker wattage can be easily switched even after installation.

KEY FEATURES

- EXTREMELY LOW PROFILE
- VC8, VC6 AND VC4 WITH BACK CAN, VC8N, VC6N, VC4N WITHOUT BACK CAN
- ELEGANT DESIGN BLENDS WITH ANY DÉCOR
- HIGH-IMPEDANCE AND LOW-IMPEDANCE SUPPORTED
- SAFER, FASTER INSTALLATION
- PAINTABLE GRILLES

DETAILS





VC4N REAR & SIDE







VC4 REAR & SIDE

VC8 REAR & SIDE

QUICK SPECIFICATIONS

	VC4	VC6	VC8	VC4N	VC6N	VC8N
TRANSDUCERS	4" + 0.8"	6.5" + 0.8"	8" + 1"	4" + 0.8"	6.5" + 0.8"	8" + 1"
POWER RATING (NOISE)	15 W	25 W	25 W	15 W	25 W	25 W
TRANSFORMER TAPS (100 V)	6 W / 3 W / 1.5 W	12 W / 6 W / 3 W	12 W / 6 W / 3 W	6 W / 3 W / 1.5 W	12 W / 6 W / 3 W	12 W / 6 W / 3 W
SENSITIVITY @1 W, 1 M	88 dB SPL	89 dB SPL	91 dB SPL	88 dB SPL	89 dB SPL	91 dB SPL
PEAK SPL	106 dB SPL	109 dB SPL	111 dB SPL	106 dB SPL	109 dB SPL	111 dB SPL
FREQUENCY RANGE (-10 DB)	121 Hz - 20 kHz	104 Hz - 20 kHz	96 Hz - 20 kHz	85 Hz - 20 kHz	63 Hz - 20 kHz	52 Hz - 20 kHz
NOMINAL COVERAGE	160°	120°	110°	160°	120°	110°
MEASURES O X D	225 x 95 mm	286 x 106 mm	325 x 122 mm	225 x 95 mm	286 x 106 mm	325 x 122 mm
WEIGHT	2.1 kg	3.3 kg	4.2 kg	1.4 kg	2.3 kg	2.8 kg
COLOUR			black,	white		
INCLUDED ACCESSORIES	Grille, safety wire	Grille, C-ring, tile rails, safety wire	Grille, C-ring, tile rails, safety wire	Grille, safety wire	Grille, C-ring, tile rails, safety wire	Grille, C-ring, tile rails, safety wire



100V TAP SELECTOR

VC8N REAR & SIDE



AB-C2 OPTIONAL TILE RAIL KIT FOR VC4(N)



LIVE SR

CBR SERIES

SOUND REINFORCEMENT LOUDSPEAKERS



MID SPL SOUND REINFORCEMENT SPEAKERS

The CBR SERIES is a lineup of passive loudspeakers developed by adopting the extensive knowledge of speaker design and acoustic technologies that Yamaha has accrued over a long and storied history of making speakers of every kind. Combining a meticulous materials selection process, thorough customization of the audio components, and a fresh, innovative approach to speaker design, our engineering team's primary focus was to deliver mid-power, high-definition sound in a highly portable and versatile design that is equally at home in front-of-house, floor monitoring, or rigged configurations.

KEY FEATURES

- HF PROTECTION AND HIGHLY RESPONSIVE LF UNIT FOR RELIABLE PERFORMANCE AT ANY OUTPUT LEVEL
- RUGGED YET LIGHTWEIGHT ENCLOSURE DESIGN
- SIMPLE CONNECTIVITY WITH SPEAKON AND PHONE CONNECTORS
- WEDGE DESIGN FOR FLOOR MONITORING
- M8 RIGGING POINTS FOR INSTALLATION APPLICATIONS
- OPTIONAL BRACKETS AND SPEAKER COVERS

DETAILS





REAR PANEL







BWS251-300/400 WALL BRACKET (OPTION)

EYE BOLTS (NOT INCLUDED)

QUICK SPECIFICATIONS

	CBR10	CBR12	CBR15			
TRANSDUCERS	10" + 1"	12" + 1.4"	15" + 1.4"			
POWER RATING (NOISE)	175 W	175 W	250 W			
SENSITIVITY @1 W, 1 M	94 dB SPL	96 dB SPL	96 dB SPL			
PEAK SPL	123 dB SPL	125 dB SPL	126 dB SPL			
FREQUENCY RANGE (-10 DB)	50 Hz - 20 kHz	48 Hz - 20 kHz	46 Hz - 20 kHz			
NOMINAL COVERAGE	90° x 60°	90° x 60°	90° x 60°			
TERMINALS		1 x NL4MP, 1 x 1/4" phone				
MEASURES W X H X D	308 x 493 x 289 mm	376 x 601 x 348 mm	455 x 700 x 3878 mm			
WEIGHT	9.4 kg	13.9 kg	17.7 kg			
CABINET MATERIAL	plastic					
COLOUR		black				
MOUNTING & FLYING	2 x M8, 35 mm pole socket	3 x M8, 35 mm pole socket				



BCS251 CEILING BRACKET (OPTION)



SPCVR-1001, 1201, 1501 SPEAKER COVERS (OPTION)



LIVE SR

CHR SERIES

SOUND REINFORCEMENT LOUDSPEAKERS







DETAILS



REAR PANEL





CHR15 EYE BOLT RIGGING (EYE BOLTS NOT INCLUDED) CHR10 ROTATABLE HORN

PERFORMANCE. OPTIMIZED.

The CHR SERIES offers an ideal solution for anyone ready to step up their sound reinforcement game to a new level of professional quality, accuracy, and performance. Premium plywood cabinets finished in a tough polyurea coating provide durability not found on other loudspeakers in this class.

Each model in the series has been optimized to meet the demands of a variety of sound reinforcement applications, with a 10" model for fixed installation and utilities, a 12" model designed for use as a floor monitor, and a 15" version for FOH applications - all featuring carefully selected custom transducers. Combined with practical features adapted for their specific applications, the series gives you the flexibility to choose the ideal speaker for a wide variety of sonic environments. Isn't it time you audition CHR quality and performance to improve your sound?

KEY FEATURES

- LIVE SOUND REINFORCEMENT LOUDSPEAKERS
- CUSTOM DESIGNED TRANSDUCERS
- **RUGGED, HIGHLY PORTABLE CABINETS**
- DUAL ANGLE POLE MOUNT SOCKET (CHR15)
- ROTATABLE HORN (CHR10)

QUICK SPECIFICATIONS

	CHR10	CHR12M	CHR15			
TRANSDUCERS	10" + 1.4"	12" + 1.75"	` 15" + 1.4"			
POWER RATING (NOISE)	175 W	250 W	250 W			
SENSITIVITY @1 W, 1 M	93 dB SPL	93 dB SPL	95 dB SPL			
PEAK SPL	122 dB APL	123 dB SPL	125 dB SPL			
FREQUENCY RANGE (-10 DB)	55 Hz - 20 kHz	61 Hz - 20 kHz	49 Hz - 20 kHz			
NOMINAL COVERAGE	90° x 60°, Rotatable	90° × 90°	90° × 60°			
TERMINALS		SpeakON NL4MP x 2 (Parallel)				
MEASURES W X H X D	305 x 494 x 300 mm	500 x 343 x 454 mm	432 x 692 x 405 mm			
WEIGHT	13.7 kg	15.6 kg	22.0 kg			
CABINET MATERIAL	plywood, durable polyurea painting					
COLOUR		black				
MOUNTING & FLYING	Top x 2, Rear x 1 (Fit for M10 x 30 - 50 mm Eyebolts)	-	Top x 2, Rear x 1 (Fit for M10 x 30 - 50 mm Eyebolts)			

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CHR12M 1,75" COAXIAL COMPRESSION DRIVER





UB-DXRDHR10 U-BRACKET FOR CHR10 (OPTION)



CZR/CXS-XLF SERIES

SOUND REINFORCEMENT SPEAKERS



DETAILS





CZR REAR PANEL





UB-DZR10V/12V/15V VERTICAL U-BRACKET SPCVR-DZR10/12/15 SPEAKER COVER

HIGH SPL SOUND REINFORCEMENT SPEAKERS

The CZR SERIES is a range of passive loudspeakers offering high power handling and outstanding sonic performance in a portable, lightweight, yet rugged design. The CZR is ideal for a range of live performance and installed sound environmentsfrom live bands at outdoor festivals to DJ's in clubs- delivering crystal clear, high-quality sound with impressive bass performance. For even more bottom end, adding CXS XLF SERIES subwoofers can extend your system's low frequency performance dramatically to support demanding music genres.

KEY FEATURES

- DURABLE PLYWOOD CABINET WITH POLYUREA COATING
- ROTATABLE WIDE DISPERSION CONSTANT DIRECTIVITY HORN
- MIRROR SET UP FOR FLOOR MONITORING (CZR12 AND CZR15)
- DUAL ANGLE POLE SOCKET
- VERTICAL AND HORIZONTAL U-BRACKET
- M10 AND M8 RIGGING POINTS

OUICK SPECIFICATIONS

	CZR10	CZR12	CZR15	CXS15XLF	CXS18XLF		
TRANSDUCERS	10" + 2"	12" + 2"	15" + 2"	15"	18"		
POWER RATING (NOISE)	350 W	400W	400W	400W	500 W		
SENSITIVITY @1 W, 1 M	95 dB SPL	97 dB SPL	97 dB SPL	98 dB SPL	100 dB SPL		
PEAK SPL	127 dB SPL	129 dB SPL	129 dB SPL	130 dB SPL	133 dB SPL		
FREQUENCY RANGE (-10 DB)	43 Hz - 20 kHz	43 Hz - 20 kHz	43 Hz - 20 kHz	33 Hz - 3 kHz	32 Hz - 3 kHz		
NOMINAL COVERAGE	90° x 60°, Rotatable	90° x 60°, Rotatable	90° x 50°, Rotatable	-	-		
TERMINALS	NL4 x 2	NL4 x 2	NL4 x 2	NL4 x 3	NL4 x 3		
MEASURES W X H X D	315 x 537 x 345 mm	410 x 646 x 394 mm	450 x 761 x 460 mm	450 x 587 x 600 mm	550 x 657 x 720 mm		
WEIGHT	14 kg	18 kg	21.3 kg	35.6 kg	43.6 kg		
CABINET MATERIAL	Polyurea coated plywood						
COLOUR	black, white						
MOUNTING & FLYING	M10 x 8, M8 x2 35mm pole socket	M10 x 12, 35 mm pole socket	M10 x 12, 35mm pole socket	35 mm pole socket, M20 thread	35 mm pole socket, M20 thread		

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UB-DZR10H/12H/15H HORIZONTAL U-BRACKET

CXS-XLF REAR PANEL



SPW-1 WHEEL KIT FOR CXS XLF SERIES



MT SERIES

STUDIO MONITOR HEADPHONES



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PROFESSIONAL HEADPHONES FOR STUDIO AND SOUND REINFORCEMENT MONITORING

It takes a true original to become an industry standard, and since their inception Yamaha's NS-10M studio monitor speakers have become a mainstay of professional studios the world over, renowned for their legendary accuracy. Yamaha has remained faithful to a design philosophy focused on delivering the sonic accuracy that provides sound professionals with the perfect platform upon which to develop and establish their own signature sound. The MT SERIES studio monitor headphones remain true to this fundamental concept, delivering precision sound reproduction that meets the demanding requirements of today's professional studio and monitoring applications.

KEY FEATURES

- HIGH RESOLUTION SOUND
- CCAW VOICE COILS WITH NEODYMIUM MAGNETS
- SUPERB ISOLATION
- PREMIUM COMFORT
- STURDY, RELIABLE CONSTRUCTION
- BLACK AND WHITE VERSIONS

DETAILS





DIE-CAST ALUMINIUM SUPPORT ARMS

WITH NEODYMIUM MAGNETS





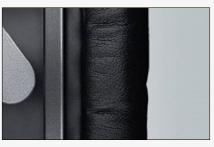
CLOSED BACK CIRCUMAURAL HOUSING

HPH-MT5/7 3M STRAIGHT CABLES

QUICK SPECIFICATIONS

	HPH-MT5	HPH-MT7
ТҮРЕ	40 mm, closed back circumaural (over ear)	40 mm, closed back circu (over ear)
PEAK POWER	1,6 W	1,6 W
SENSITIVITY @1 W, 1 M	100 dB SPL	99 dB SPL
IMPEDANCE	51 Ω	49 Ω
FREQUENCY RANGE (-10 DB)	20 Hz - 20 kHz	15 Hz - 25 kHz
CABLE	3 m straight, 3.5 mm stereo jack	3 m straight, 3.5 mm stereo jack
MEASURES W X H X D	165 x 203 x 88 mm	170 x 195 x 98 mm
WEIGHT	0.25 kg	0.36 kg
COLOUR	black, white	black, white
INCLUDED ACCESSORIES	threaded 6.3 mm gold plated stereo adaptor, nylon carrying bag	threaded 6.3 mm gold plate adaptor, padded carrying

CCAW VOICE COILS



SMOOTH LOW RESISTANCE EAR PADS



HPH-MT8 COILED & STRAIGHT CABLES

HPH-MT7	HPH-MT8
nm, closed back circumaural (over ear)	45 mm, closed back circumaural (over ear)
1,6 W	1,6 W
99 dB SPL	102 dB SPL
49 Ω	37 Ω
15 Hz - 25 kHz	15 Hz - 28 kHz
3 m straight, 3.5 mm stereo jack	1.2 m coiled, 3.0 m straight, 3.5 mm stereo jack
170 x 195 x 98 mm	161 x 214 x 89 mm
0.36 kg	0.35 kg
black, white	black

readed 6.3 mm gold plated stereo adaptor, padded carrying bag

threaded 6.3 mm gold plated stereo adaptor, padded carrying bag



LOUDSPEAKER SYSTEM DESIGN SOFTWARE





CISSCA

Commercial Installation Solutions Speaker Calculator (**CISSCA**) is a quick and easy to use software application that calculates the number of speakers required for optimum performance in a room specified by the user, simulating the effective sound pressure level of the system. CISSCA supports the VXS and VXC series.

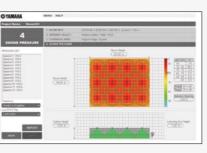
VXL SELECTION ASSISTANT

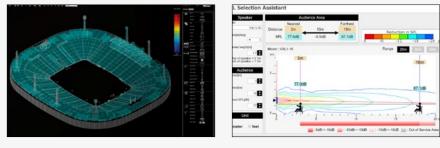
The online **VXL SELECTION ASSISTANT APP** is intended to assist in the selection of the most appropriate VXL compact line array model for speech reproduction and sound reinforcement applications. The app will provide an indication of whether good amplified sound can be provided throughout the audience area by calculating the difference in SPL between the nearest and furthest audience members, based on the VXL compact line array output attenuation over distance.

NS-1

The **NEXO NS-1** speaker system configuration software is a powerful and intuitive system configuration and simulation tool enabling system designers and sound engineers to configure and optimise the performance of any Yamaha/NEXO loudspeaker system by predicting its behaviour in any venue to ensure uniform SPL coverage.

CISSCA **NS-1**





CISSCA

NS-1

KEY FEATURES

- THREE SOFTWARE TOOLS AVAILABLE FREE OF CHARGE
- VXL WEB APPLICATION SUPPORTS EASY CONFIGURATION FOR VXL SERIES LINE ARRAY SPEAKERS
- CISSCA SUPPORTS QUICK AND EASY SPEAKER SYSTEM CONFIGURATION FOR VXS AND VXC SPEAKERS
- NS-1 SUPPORTS INTUITIVE CONFIGURATION OF COMPLEX SPEAKER SYSTEMS
- NS-1 SUPPORT NEXO SPEAKERS: ID SERIES, EPS, P+ SERIES, GEO-M, STM (AVAILABLE THROUGH NEXO)

SPECIFICATONS

	CISSCA	
SUPPORTED YAMAHA SPEAKERS	VXS, VXC series	VXC, V
SUPPORTED NEXO SPEAKERS	-	ID, eP
OPERATING SYSTEM	Windows 10	
ACCESS	free of charge download:	fre
	https://europe.yamaha.com/en/prod- ucts/proaudio/software/commercial_in- stallation_solutions_speaker_calcula- tor/index.html	https://v



VXL SELECTION ASSISTANT

VXL ASSISTANT

VXS, VXL, CBR, CZR series

VXL series

PS, P+, GEO-M, STM series

Windows 10

ree of charge download: //www.nexo-sa.com/systems/ software/ Windows 10

web page:

https://europe.yamaha.com/en/ products/proaudio/speakers/vxl/ selection_assistant.html#product-tabs



SPEAKER BRACKETS FOR PASSIVE SPEAKERS



UB-DZR10H / UB-DZR12H / UB-DZR15H HOPRIZONTAL U-BRACKETS FOR DZR AND CZR SERIS



BBS251 BATON BRACKET MAX LOAD: 30 KG



BWS50-190/260 WALL BRACKETS MAX LOAD: 20 KG



BCS251 CEILING BRACKET MAX LOAD: 30 KG



BWS20-120/190 WALL BRACKETS MAX LOAD: 7 KG



UB-DZR10V / UB-DZR12V / UB-DZR15V



BCS20-150/210 CEILING BRACKETS MAX LOAD: 10 KG

SPEAKER COVERS FOR PASSIVE SPEAKERS





SPVCR-DZR15

SPVCR-DZR12





SPVCR-DXS18X

SPVCR-DXS15X

COVER COMPATIBILITY

	SPVCR - DZR10	SPVCR - DZR12	SPVCR - DZR15	SPCVR - DXS15X
CZR10	X			
CZR12		X		
CZR15			X	
CXS15XLF				Х
CXS18XLF				
DBR10				
DBR12				
DBR15				

BRACKET COMPATIBILITY

	UB- DZR10H	UB- DZR12H	UB- DZR15H	UB- DZR10V	UB- DZR12V	UB- DZR15V	UB-DXR DHR10	BBS 251	BCS251	BWS251 -300 -400	BWS50 (190, 260)	BCS20 (150, 210)	BWS20 (120, 190)
DBR/CBR 10								Х	Х	Х			
DBR/CBR 12								Х	Х	×			
DBR/CBR 15								X	X	×			
DHR/CHR 10							×						
DZR/CZR 10	Х			×									
DZR/CZR 12		×			×								
DZR/CZR 15			×			Х							
VXS5												X	X
VXS8												Х	

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SPVCR-DZR10



SPW-1

SPCVR - 1001 SPVCR - 1201 SPCVR - 1501 SPCVR - DXS18X SPW-1 Х Х Х Х Х Х



SPECIFICATIONS COMMERCIAL INSTALLATION SURFACE MOUNT & COMPACT LINE ARRAY LOUDSPEAKERS

					SURFACE MOL	JNT SPEAKERS		
			VXS3F	VXS3FT	VXS5	VXS8	VXS10S	VXS10ST
SYSTEM		TYPE	full r	ange	2-way fu	ull range	subw	oofer
		LF	acoustic s	uspension	bass reflex		bass	reflex
		HF		_	soft	dome		
		ENCLOSURE		surface	e mount			
POWER RATI	NG	NOISE	20 W	20 W	75 W	90 W	100 W +	+ 100 W
		PEAK	80 W	80 W	300 W	360 W	800) W
		TRANSFORMER TAPS (100V)	-	15 W / 7.5 W / 3.5 W	30 W/ 15 W/ 7.5 W	60 W / 30 W / 15 W	-	200 W / 100 W 50 W
PROTECTION	I CIRCUIT			у	es		У€	es
IMPEDANCE		NOMINAL		8	Ω		8Ω+8Ω	-
		TRANSFORMER TAPS (100V)	-	670 / 1.3 k / 2.7 k Ω	170 / 330 / 670 Ω	170 / 330 / 670 Ω	-	50 / 100 / 200 Ω
SENSITIVITY			86 dB SPL	86 dB SPL	89 dB SPL	91 dB SPL	96 dE	3 SPL
PEAK SPL			105 dB SPL	105 dB SPL	114 dB SPL	117 dB SPL	125 dl	B SPL
FREQUENCY	RANGE		130 Hz - 20 kHz	130 Hz - 20 kHz	62 Hz - 20 kHz	51 Hz - 20 kHz	45 Hz -	250 Hz
CROSSOVER			-	-	3 kHz	2.8 kHz	-	
COVERAGE A	ANGLE	DEGREES HORIZONTAL	150°	150°	120°	100°	-	
		DEGREES VERTICAL	160°	160°	120°	100°	-	
TRANSDUCE	RS	LF CONE DIAMETER	3.5"	3.5"	5.25"	8"	10" dual voice coil	
		HF VOICE COIL DIAMETER	-	-	0.75"	1"		
TERMINALS		BARRIER STRIP	-	2P	-	-	-	
	EUROBLOCK	4P	-	4P	4P	4P x 2		
		CERAMIC			-			
DIMENSIONS (EXCL. BRAC		W	184 mm	184 mm	176 mm	278 mm	260 mm	
(EAGL. BRAG	KEI)	Н	130 mm	130 mm	280 mm	430 mm	500 mm	
		D	94 mm	94 mm	163 mm	239 mm	389	mm
		0	-				-	
		CUTOUT SIZE	-				-	
		CEILING BOARD THICKNESS		-				-
WEIGHT			1 kg	1.7 kg	3.6 kg	8.2 kg	16.5 kg	19.5 kg
ENCLOSURE	MATERIALS	MATERIAL		A	BS		MI	DF
		FINISH		pain	table			
		COLOUR		black	white		black,	white
		IP RATING	-	-	IP35	IP35	-	
EN54-24 CO	VIPLIANT				-		-	
PACKAGING					air		pie	
WALL BRACK			included	incl. trans- former	included	included	inclu	
TERMINAL C				incl	uded			
	CEILING MOUNT				-		option U	B-DXR8
OPTIONS					-			
POE	DYNAMIC POV	WER AT/AF			-			
(IEEE 802.3 AT/AF)		POWER AT/AF			-			
		CONNECTORS			-			
		CONNECTORS			-			
	POWER CON-	IDLE			-			
	SUMPTION	1/8 POWER (AT/AF)			-			

COMPACT SURFACE MOUNT SPEAKERS							
VXS1ML	VXS3S	VS4	VS6				
full range	subwoofer	full range	full range				
acoustic	SR-Bass	acoustic	acoustic				
suspension		suspension	suspension				
-	-	dome	dome				
	20.11/	45.144	05.14				
5 W	20 W	15 W	25 W				
20 W	80 W	60 W 15 W / 7.5 W /	100 W 12 W / 12.5 W /				
	-	3.8 W	6.3 W				
-	yes	-	-				
	8	Ω					
		-					
79 dB SPL	79 dB SPL	88 dB SPL	90 dB SPL				
92 dB SPL	98 dB SPL	106 dB SPL	110 dB SPL				
180 Hz - 20 kHz	65 Hz - 180 Hz	100 Hz - 20 kHz	80 Hz - 20 kHz				
-	_	15 kHz	15 kHz				
170°	_	110°	90°				
170°	-	110°	90°				
1.5"	3.5"	4"	6.5"				
-	-	1"	1"				
-	-	4P	4P				
2P	4P+8P	-	-				
		-					
62 mm	322 mm	152 mm	190 mm				
62 mm	162 mm	243 mm	308 mm				
82 mm	118 mm	172 mm	219 mm				
		-					
		-					
		-					
0.17 kg	2.7 kg	1.9 kg	2.8 kg				
ABS	ABS	HIPS, 94-HB	HIPS, 94-HB				
		-					
		-					
-	-	IPX3	IPX3				
		-					
piece	piece	pair	pair				
included	included	included	included				
-	-	included	included				
included	option	-	-				
		-					
		-					
		-					
		-					
		-					
		-					
		-					

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	COMPACT L	INE ARRAYS	
VXL1-8	VXL1-16	VXL1-24	VXL1-16P
	line a	array	
	bass	reflex	
	surface	mount	
40 W	80 W	110 W	-
160 W	320 W	40 W	-
	-		
	ує	26	
16 Ω	12 Ω	8 Ω	-
88 dB SPL	90 dB SPL	91 dB SPL	-
111 dB SPL	116 dB SPL	117 dB SPL	102 dB SPL
110 Hz - 20 kHz	108 Hz - 20 kHz	98 Hz - 20 kHz	110 Hz - 20 kHz
		-	
170°			
050	050 / 000	450 / 000	30°
65° 1.5" x 8	25° / 30° 1.5" x 16	15° / 20° 1.5" x 24	1.5" x 16
1.5 × 6	1.5 × 10	1.5 X 24	1.5 X 10
-	-	-	-
2P x 2	2P x 2	2P x 2	-
-	-	-	-
100	54 r 846 mm		100
480 mm			480 mm
	104		
2.1 kg	3.9 kg	5.5 kg	5 kg
2.1 Kg		extrusion	<u> </u>
	paint		
	black,	white	
IP35	IP35	IP35	-
	-		
	pie	ce	
	inclu	ıded	
	-		
bracket, VCSB-	acket, VCB-L1 vertical L1 2-axis vertical stac on-PoE models only)	k bracket, PA-L1 pole	mount bracket,
	-		15 W/6 W
	-		15 W/6 W
	-		convection
	-		1
	-		3 W
			G MILA O MI



SPECIFICATIONS COMMERCIAL INSTALLATION CEILING MOUNT & PENDANT LOUDSPEAKERS

	[CEILING MOUNT SPEAKERS				
		VXC4	VXC6	VXC8	VXC8S	
SYSTEM	ТҮРЕ	full range	2-way full range	2-way full range	subwoofer	
	LF	bass reflex	acoustic suspension	acoustic suspension	band pass	
	HF	-	soft dome	soft dome	-	
	ENCLOSURE		in-ceiling with back can	I	in-ceiling with back car	
POWER RATING	NOISE	30 W	75 W	90 W	100 W	
	PEAK	120 W	300 W	360 W	400 W	
	TRANSFORMER TAPS (100 V)	30 W /15 W / 7.5 W	60 W / 30 W / 15 W	60 W / 30 W / 15 W	60 W / 30 W / 15 W / 7.5 W	
PROTECTION CIRCUIT	r		yes		yes	
IMPEDANCE	NOMINAL		Ω 8		8 Ω	
	TRANSFORMER TAPS (100 V)	330 / 670 / 1.3k Ω	170 / 330 / 670 Ω	170 / 330 / 670 Ω	170 / 330 / 670 / 1.3k s	
SENSITIVITY		87 dB SPL	86 dB SPL	90 dB SPL	88 dB SPL	
PEAK SPL		108 dB SPL	111 dB SPL	116 dB SPL	114 dB SPL	
FREQUENCY RANGE		80 Hz - 20 kHz	56 Hz - 20 kHz	55 Hz - 20 kHz	44 Hz - 200 Hz	
CROSSOVER		-	3.2kHz	3kHz	-	
COVERAGE ANGLE	DEGREES HORIZONTAL	130°	110°	100°	-	
	DEGREES VERTICAL	130°	110°	100°	-	
TRANSDUCERS	LF CONE DIAMETER	4"	6.5"	8"	8"	
	HF VOICE COIL DIAMETER	-	0.75"	1"	-	
TERMINALS	BARRIER STRIP		-		-	
	EUROBLOCK		4P		4P	
	CERAMIC		-		-	
DIMENSIONS	W		-		-	
	Н		-		-	
	D	195 mm	205 mm	259 mm	324 mm	
	0	225 mm	286 mm	325 mm	314 mm	
	CUTOUT SIZE	186 mm	247 mm	285 mm	285 mm	
	CEILING BOARD THICKNESS		1-35 mm		1-37 mm	
WEIGHT		2.6 kg	4.4 kg	6.6 kg	8.7 kg	
ENCLOSURE MATERIALS	MATERIAL		Steel/HIPS		Steel/HIPS	
WATERIALS	FINISH		paintable		paintable	
	COLOUR		black, white		black, white	
	IP RATING		-		-	
EN54-24 COMPLIANT			-		-	
PACKAGING			pair		pair	
WALL BRACKET			-		-	
TERMINAL COVER			-		-	
CEILING MOUNT			0-ring, tile rail		-	
OPTIONS			-		0-ring, tile rail	

LOW PROFILE	E CEILING MOUN	NT SPEAKERS		(CEILING MOU	NT SPEAKERS	6		PENDULUM	SPEAKERS
VXC2F	VXC3F	VXC5F	VC4	VC6	VC8	VC4N	VC6N	VC8N	VXH6	VXH8
full range	full range	full range	2-way coaxial			2-way	coaxial			
bass reflex	bass reflex	bass reflex	aco	oustic suspens	ion	W	vithout back ca	n	bass	reflex
-	-	-	film dome	soft dome	soft dome	film dome	soft dome	soft dome	soft	dome
in-c	ceiling with back	can	in-ce	eiling with back	k can	in-ce	eiling with back	(can	pend	ulum
15 W	20 W	40 W	15 W	25 W	25 W	15 W	25 W	25 W	75 W	90 W
60 W	80 W	160 W	60 W	100 W	100 W	60 W	100 W	100 W	300 W	360 W
15 W / 7.5 W / 3.8 W / 1.9 W	15 W / 7.5 W / 3.8 W	30 W / 15 W / 7.5 W	6 W / 3 W / 1.5 W	12 W / 6 W / 3 W	12 W / 6 W / 3 W	6 W / 3 W / 1.5 W	12 W / 6 W / 3 W	12 W / 6 W / 3 W	60 W, 30) W, 15 W
	yes				у	es			у	es
	Ω 8				16	Ω			8	Ω
670 / 1.3k / 2.7k / 5.4k Ω	670 / 1.3k / 2.6k Ω	330 / 670 / 1.3k Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	170 / 330	Ο / 670 Ω
86 dB SPL	87 dB SPL	89 dB SPL	88 dB SPL	89 dB SPL	91 dB SPL	88 dB SPL	89 dB SPL	91 dB SPL	93 dB SPL	94 dB SPL
104 dB SPL	106 dB SPL	111 dB SPL	106 dB SPL	109 dB SPL	111 dB SPL	106 dB SPL	109 dB SPL	111 dB SPL	118 dB SPL	120 dB SPL
67 Hz - 10 kHz	71 Hz - 20 kHz	60 Hz - 20 kHz	121 Hz - 20 kHz	104 Hz - 20 kHz	96 Hz - 20 kHz	85 Hz - 20 kHz	63 Hz - 20 kHz	52 Hz - 20 kHz	55 Hz - 20 kHz	57 Hz - 20 kHz
	-								3 k	Hz
160°	140°	130°	160°	120°	110°	160°	120°	110°	120°	75°
160°	140°	130°	4"	6.5"	8"	4"	6.5"	8"	120°	75°
2.5"	3.5"	4.5"	0.	8"	1"	0.	8"	1"	6.5"	8"
-	-	-							1	53
	- 4P		4P	4P	4P				4	- P
	-		-	-	-	2P	2P	2P		
	-									-
	-									
89 mm	112 mm	143 mm	225 mm	286 mm	325 mm	225 mm	286 mm	325 mm	379 mm	434 mm
225 mm	285 mm	324 mm	95 mm	106 mm	122 mm	103 mm	114 mm	131 mm	341 mm	356 mm
186 mm	247 mm	285 mm	186 mm	247 mm	285 mm	186 mm	247 mm	285 mm		-
5-37 mm	5-37 mm	5-37 mm								-
1.7 kg	2.5 kg	3.1 kg	2.1 kg	3.3 kg	4.2 kg	1.4 kg	2.3 kg	2.8 kg	5.7 kg	7.2 kg
Steel/ABS	ABS	ABS		steel			fiber		ste	eel
	paintable					-			powder coati	ng, paintable
	black, white				black,	white			black,	White
	-					-			IP	45
	-									-
	pair				pie	ece			sin	gle
	-									-
	-									-
	0-ring, tile rail			ıg, tile rails, y wire	Grille, safety wire	Grille, C-rin safety	ng, tile rails, y wire	Grille, safety wire	GRIPPLE wi	re (included)
	pendant kit		AB-C2 C-ring + tile rail kit	-	-	AB-C2 C-ring + tile rail kit	-	-		-

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SPECIFICATIONS COMMERCIAL INSTALLATION EN54-24 CERTIFIED LOUDSPEAKERS

		SURFACE MOUNT SPEAKERS		
		VXS5-VA	VXS8-VA	
SYSTEM	ТҮРЕ	2-way fu	Il range	
	LF	bass reflex		
	HF	soft c	lome	
	ENCLOSURE	surfac	e mnt	
POWER RATING	NOISE	75 W	90 W	
	PEAK	300 W	360 W	
	TRANSFORMER TAPS (100V)	30 W / 15 W / 7.5 W	60 W / 30 W / 15 W	
PROTECTION CIRCUIT		уе	S	
IMPEDANCE	NOMINAL	8	Ω	
	TRANSFORMER TAPS (100V)	170/330/670 Ω	170/330/670 Ω	
SENSITIVITY		88 dB SPL	89 dB SPL	
PEAK SPL		113 dB SPL	115 dB SPL	
FREQUENCY RANGE		62 Hz - 20 kHz	51 Hz - 20 kHz	
CROSSOVER		3 kHz	2.8 kHz	
COVERAGE ANGLE	DEGREES HORIZONTAL	120°	100°	
	DEGREES VERTICAL	120°	100°	
TRANSDUCERS	LF CONE DIAMETER	5.25"	8"	
	HF VOICE COIL DIAMETER	0.75"	1"	
TERMINALS	BARRIER STRIP	-		
	EUROBLOCK	-		
	CERAMIC	31	p	
DIMENSIONS MM	W	176 mm	278 mm	
	Н	280 mm	430 mm	
	D	163 mm	239 mm	
	0	-		
	CUTOUT SIZE	-		
	CEILING BOARD THICKNESS	-		
WEIGHT		3.6 kg	8.2 kg	
ENCLOSURE MATERIALS	MATERIAL	AE	S	
	FINISH	paint	able	
	COLOUR	black,	white	
	IP RATING	IP3	35	
EN54-24 COMPLIANT		yes		
PACKAGING		ра	ir	
WALL BRACKET		inclu	ded	
TERMINAL COVER		inclu	ded	
CEILING MOUNT				
OPTIONS				

	CEILING MOUNT SPEAKERS		LOW PROFILE CEILIN	G MOUNT SPEAKERS	
VXC4-VA	VXC6-VA	VXC8-VA	VXC3F-VA	VXC5F-VA	
full range	2-way fu	ull range	full range	full range	
bass reflex	acoustic s	uspension	bass reflex	bass reflex	
-	soft	dome		-	
	ceiling		cei	ling	
30 W	75 W	90 W	20 W	40 W	
120 W	300 W	360 W	80 W	160 W	
30 W / 15 W / 7.5 W	60 W / 30 W / 15 W	60 W / 30 W / 15 W	15 W / 7.5 W / 3.8 W	30 W / 15 W / 7.5 W	
	yes		ye	es	
	8 Ω		8	Ω	
330/670/1.3k Ω	170/330/670 Ω	170/330/670 Ω	670/1.3k/2.6k Ω	330/670/1.3k Ω	
87 dB SPL	86 dB SPL	89 dB SPL	86 dB SPL	87 dB SPL	
108 dB SPL	111 dB SPL	114 dB SPL	105 dB SPL	109 dB SPL	
80 Hz - 20 kHz	56 Hz - 20 kHz	55 Hz - 20 kHz	71 Hz - 20 kHz	60 Hz - 20 kHz	
-	3.2 kHz	3 kHz		-	
130°	110°	100°	140°	130°	
130°	110°	100°	140°	130°	
4"	6.5"	8"	3.5"	4.5"	
-	0.75"	1"		-	
	-			-	
	-			-	
	3P		ЗР		
	-			-	
	-			-	
195 mm	205 mm	259 mm	112 mm	143 mm	
225 mm	286 mm	325 mm	285 mm	324 mm	
186 mm	247 mm	285 mm	247 mm	285 mm	
	5-37 mm		5-37	′ mm	
2.6 kg	4.4 kg	6.6 kg	2.6 kg	3.2 kg	
	ABS		Al	BS	
	paintable		pain	table	
	black, white		black,	, white	
IP32			IP	32	
yes			ye	es	
pair			pa	air	
	included		inclu	uded	
	included		inclu	uded	
	0-ring, tile rail		optional	0-ring, tile rail	
	-		penda	ant kit	



SPECIFICATIONS SOUND REINFORCEMENT LOUDSPEAKERS

				CBR SERIES			CHR SERIES	
			CBR10	CBR12	CBR15	CHR10	CHR12M	CHR15
SYSTEM		TYPE		2-way full range	1		2-way full range	
		HF		compression drive	r		compression drive	r
		LF	bass reflex				bass reflex	
		DRIVE MODE		passive			passive	
POWER	PASSIVE	NOISE	17	5 W	250 W	175 W	250 W	250 W
RATING		PEAK	70	0 W	1000 W	700 W	1000 W	1000 W
	BI-AMP	NOISE		-			-	
	LF	PEAK		-			-	
	BI-AMP	NOISE		-			-	
	MF/HF	PEAK		-			-	
IMPEDANC	E	PASSIVE		8 Ω			8 Ω	
	_	BI-AMPED LF		_				
		BI-AMPED MF/HF		-			-	
SENSITIVIT	Y	PASSIVE	94 dB SPL	96 d	B SPL	93 dB SPL	93 dB SPL	95 dB SPI
		BI-AMPED LF		-		-		
		BI-AMPED MF/HF						
PEAK SPL		PASSIVE	123 dB SPL	125 dB SPL	126 dB SPL	122 dB SPL	123 dB SPL	125 dB SP
2711.01 2		BI-AMPED LF	120 00 01 2	-	120 20 01 2		-	.20 02 01
		BI-AMPED MF/HF						
FREQUENC		PASSIVE	50 Hz -	48 Hz -	46 Hz -	55 Hz -	61 Hz -	49 Hz -
INLQUENO	TRANCE	TAGGIVE	20 kHz	20 kHz	20 kHz	20 kHz	20 kHz	20 kHZ
PASSIVE NI	TWORK CR	OSSOVER	2.8 kHz	2.1 kHZ	2 kHz	2.5 Khz	1.8 kHz	2.0 kHz
COVERAGE	ANGLE	DEGREES HORIZONTAL	90°				90°	
		DEGREES VERTICAL	60°		60°	90°	60°	
		ROTATABLE		-		yes	-	-
TRANS-	LF	CONE DIAMETER	10"	12"	15"	10"	12"	15"
DUCERS		VOICE COIL DIAMETER	2"	2"	2.5"	2"	2.5"	2.5"
		MAGNET MATERIAL		Ferrite		Ferrite		
	HF	VOICE COIL DIAMETER	1"	1.4"	1.4"	1.4"	1.75"	1.4"
		THROAT / EXIT DIAMETER	1"	1"	1"		1"	
		DIAPHRAGM MATERIAL		PET	1		PET	
		MAGNET MATERIAL	Ferrite			Ferrite -		
CONNECTO	RS	NEUTRIK NL4		1		2 (parralel)		
		BARRIER STRIP		_				
		PHONE		1			_	
DIMENSION	IS	W	308 mm	376 mm	455 mm	305 mm	500 mm	432 mm
		H	493 mm	601 mm	700 mm	494 mm	343 mm	692 mm
		D	289 mm	348 mm	378 mm	300 mm	454 mm	405 mm
WEIGHT		-	9.4 kg	13.9 kg	17.7 kg	13.7 kg	15.6 kg	22.0 kg
SHAPE			0.7 Ng	50°		trapezoid	wedge	trapezoid
ENCLOSUR	F	MATERIAL		Plastic		(Tupozotu	Plywood	l apezoie
MATERIALS	5	FINISH		-			Polyurea coating	
		COLOUR		black			black	
		IP RATING		DIACK			DIGCK	
	ET			- 1			- 1	
POLE SOCK		35MM 0 DEGREES		-			-	1
		35MM 7 DEGREES		-				
		M20 THREADED	101	-	101	1.10	-	1.10
RIGGING P	51015	M6 / M8 / M10	-/2/-	-/3/-	-/3/-	- / - / 3	-	-/-/3
HANDLES		SIDE / TOP	- / 1	2 / -	2 / -	- / 1	1/-	2/-

		CZR / CXS-XLF S	ERIES	
CZR10	CZR12	CZR15	CXS15XLF	CXS18XLF
	2-way full range		subwo	oofer
	compression driver		-	
	bass reflex		bass r	reflex
	passive, bi-amp		-	
350 W	40	0 W	400 W	500 W
1400 W	160	00 W	1600 W	2000 W
350 W	40	0 W	-	
1400 W	160	00 W	-	
	50 W		-	
	200 W		-	
	8 Ω		8	Ω
	8 Ω		-	
	16 Ω		-	
95 dB SPL	97 dB SPL	97 dB SPL	98 dB SPL	100 dB SPL
95 dB SPL	97 dB SPL	99 dB SPL	-	
108 dB SPL	108 dB SPL	108 dB SPL	-	
127 dB SPL	129 dB SPL	129 dB SPL	130 dB SPL	133 dB SPL
127 dB SPL	129 dB SPL	131 dB SPL	-	
131 dB SPL	131 dB SPL	131 dB SPL	-	
	43 Hz - 20 kHz		33 Hz - 3.5 kHz	32 Hz - 3 kHz
2.5 kHz	2	kHz	-	
	90°		-	
60°	60°	50°	-	
	yes	· · · · · · · · · · · · · · · · · · ·	-	
10"	12"	15"	15"	18"
	3"		4	19
	Neodymium		Feri	rite
	2"		-	
	1"		-	
	titanium		-	
	Neodymium		-	
	2		3	
	-		-	
	-		-	
315 mm	410 mm	450 mm	450 mm	550 mm
537 mm	646 mm	761 mm	587 mm	657 mm
345 mm	394 mm	460 mm	600 mm	720 mm
14 kg	18 kg	21.3 kg	35.6 kg	43.6 kg
50°	50°	50° trapezoid	rectan	-
	Plywood		Plyw	
	Polyurea coating		Polyurea	
	black, white		black,	white
	-		-	
	1		1 (depth	80 mm)
	1		-	
	-		1 (depth	25 mm)
-/2/8	- / - / 12	- / - / 12	-	
1/1	2 / -	2 / -	2 / -	2 / -

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POWERED LOUDSPEAKERS

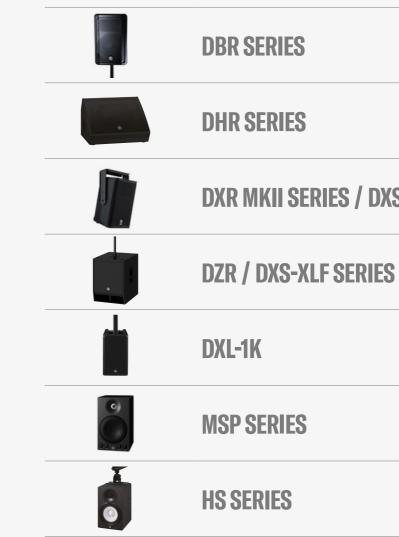
YAMAHA'S LOUDSPEAKER LEGACY CONTINUES IN ITS RANGE OF POWERED MODELS FOR SOUND **REINFORCEMENT AND STUDIO MONITORING.**

Combining the advanced technology of Yamaha's passive loudspeakers, amplifiers and digital signal processing (DSP) in stylish, road-ready enclosures, the active loudspeaker range includes models designed to satisfy the needs of all small-to-medium sized live sound reinforcement applications.

Whether the priority is speech or music, audience sound reinforcement or onstage monitoring, standalone or networked audio, high definition, high power or compact systems - or indeed all of these - YAMAHA POWERED LOUDSPEAKERS offer high efficiency amplifiers, advanced features and a range of loudspeaker sizes, all delivering integrated power and performance, designed to withstand the rigours of the road.

In the studio, the HS series range of powered reference monitors carries the industry-standard legacy of the NS10 into the 21st century. Like its illustrious predecessor, the iconic white speaker cone highlights monitors designed for precise, truthful reproduction, providing an honest reference to help make sure any mix is as accurate as possible.

And with three models and an extension subwoofer to choose from, the HS series is suitable for any listening environment.



DXR MKII SERIES / DXS SERIES



DBR SERIES

COMPACT SOUND REINFORCEMENT SPEAKERS



S

POWER TO PLAY

DBR SERIES loudspeakers offer high-definition sound and high sound pressure levels in a compact and extremely lightweight speaker design. Each DBR speaker provides two Class D digital amplifiers, one D-Contour multi-band compressor and comprehensive DSP-protections. Yamaha implemented FIR-X tuning™ tuning technology which offers linear frequency and phase response.

KEY FEATURES

- COMPACT, LIGHTWEIGHT HIGH-DEFINITION SOUND
- BI-AMPED CLASS D POWER AMPLIFIERS
- D-CONTOUR MULTI-BAND COMPRESSOR
- FIR-X TUNING
- INTELLIGENT INTEGRATED 2-CHANNEL MIXER
- SYMMETRICAL ENCLOSURE FOR POLE MOUNT AND FLOOR MONITOR APPLICATIONS

DETAILS





DURABLE, COMPACT DESIGN

HIGH VERSATILITY AND FUNCTIONALITY (2 CHANNEL MIXER WITH XLR, PHONE, RCA INPUTS)





EXTREMELY ACCURATE 90X60 CONSTANT-DIRECTIVITY HORN

SPCVR-0801/1001/1201/1501 SPEAKER COVERS FOR DBR10, DBR12, DBR15 (SEE PAGE 59)

QUICK SPECIFICATIONS

	DBR10	DBR12	DBR15
TRANSDUCERS	10" + 1"	12" + 1.4"	15" + 1.4"
POWER AMP	700 W	1000 W	1000 W
PEAK SPL	129 dB SPL	131 dB SPL	132 dB SPL
FREQUENCY RANGE (-10DB)	55 Hz - 20 kHz	52 Hz - 20 kHz	50 Hz - 20 kHz
NOMINAL COVERAGE		90° x 60°	
ANALOGUE IN		2 x combo, 2 x RCA	
ANALOGUE OUT		1 x XLR	
MEASURES W X H X D	308 x 493 x 289 mm	376 x 601 x 348 mm	455 x 700 x 378 mm
WEIGHT	10.5 kg	15.8 kg	19.3 kg
CABINET MATERIAL		plastic	
COLOUR		black	
MOUNTING & FLYING	2 x M8, 35mm pole socket	3 x M8, 35mm pole socket	3 x M8, 35mm pole socket



SYMMETRICAL ENCLOSURE DESIGN FOR MIRROR-MODE FLOOR MONITORING (DBR12/DBR15)



SPEAKER STAND MOUNT



LIVE SR

DHR SERIES

LIVE SOUND REINFORCEMENT SPEAKERS

DHRSERIES



PERFORMANCE. OPTIMIZED.

The DHR SERIES is ideal solution for anyone ready to step up their sound reinforcement game to a new level of professional quality, accuracy, and performance. Premium plywood cabinets finished in a tough polyurea coating provide durability not found on other loudspeakers in this class. Each model has been optimized to meet the demands of a variety of sound reinforcement applications, with 10" models for fixed installation and utilities, 12" models designed for use as floor monitors, and 15" versions for FOH applications-all featuring customs transducers carefully selected. With DHR Series featuring custom transducers driven by DSP-equipped class-D power amplifiers to deliver stunning sound quality and clarity. Combined with practical features adapted for their specific applications, this series gives you the flexibility to choose the ideal speaker for a wide variety of sonic environments.

KEY FEATURES

- RUGGED, HIGHLY PORTABLE CABINETS
- OPTIMIZED FOR A RANGE OF AUDIO ENVIRONMENTS
- CUSTOM DESIGNED TRANSDUCERS
- EASY TO USE ONBOARD 2-CHANNEL MIXER
- D-CONTOUR
- BI-AMPED CLASS D POWER AMPLIFIERS

DETAILS





DHR SERIES REAR PANEL





UB-DXRDHR10 U-BRACKET, SUPPORTS BOTH VERTIVAL AND HORIZONTAL MOUNTING OF DHR10 (OPTION, SEE PAGE 58)

DHR12M WEDGE SHAPE WITH COAXIAL DRIVER SUPPORTS FLOOR MONITORING APPLICATIONS

QUICK SPECIFICATIONS

	DHR10	DHR12M	DHR15
TRANSDUCERS	10" + 1.4"	12" + 1.75"	15" + 1.4"
POWER AMP	700 W	1000 W	1000 W
PEAK SPL	128 dB SPL	129 dB SPL	131 dB SPL
FREQUENCY RANGE (-10DB)	52 Hz - 20 kHz	55 Hz - 20 kHz	44 Hz - 20 kHz
NOMINAL COVERAGE	90° x 60° (rotatable)	90° x 90°	90° x 60°
ANALOGUE IN		2 x combo, 2 x RCA	
ANALOGUE OUT		1 x XLR	
MEASURES W X H X D	305 x 494 x 300 mm	500 x 343 x 454 mm	432 x 692 x 405 mm
WEIGHT	15 kg	16.5 kg	24 kg
CABINET MATERIAL		plywood, polyurea coating	
COLOUR		black	
MOUNTING & FLYING	3 x M10, 35 mm pole socket	35 mm pole socket	3 x M10, 35 mm pole socket

HIGH-EFFICIENCY CLASS-D AMPLIFIERS



CUSTOM DESIGNED TRANSDUCERS



M10 RIGGING POINTS SUPPORT EYE BOLT SUSPENSION OF DHR10 AND DHR15



DXR MKII SERIES / DXS SERIES

HIGH DEFINITION SOUND REINFORCEMENT SPEAKERS AND SUBWOFERS



60

LOUDER, LIGHTER, LEGENDARY

DXR MKII SERIES powered loudspeakers offer superb high-definition sound and class-leading sound pressure levels - yet in a more compact and extremely functional design that provides a level of versatility unmatched by any speaker in its class today. Each DXR speaker provides two Class D digital amplifiers, one D-Contour multi-band compressor and comprehensive DSP-protections. In addition, all full range models feature Yamaha's proprietary FIR-X tuning™ utilizing linear phase FIR filters for the crossover network.

KEY FEATURES

- COMPACT AND LIGHTWEIGHT YET EXTREMELY LOUD
- 8", 10", 12" AND 15" CABINETS WITH MATCHING 12", 15" AND 18" SUBWOOFERS
- INTELLIGENT 3-CHANNEL-MIXER
- D-CONTOUR AND FIR-X TUNING
- BI-AMPED CLASS D POWER AMPLIFIERS
- BROAD RANGE OF OPTIONAL BRACKETS AND COVERS

DETAILS





DXR MKII REAR PANEL

HIGH-EFFICIENCY





UB-DXR8V/10V/12V VERTICAL U-BRACKET UB-DZR10H/12H/15H HORIZONTAL U-BRACKET (OPTION, SEE PAGE 59)

SPCVR-1001/1201/1501 SPEAKER COVERS SPCVR-DXS122/152/18S01 SUBWOOFER COVERS (OPTION, SEE PAGE 59)

OUICK SPECIFICATIONS

	DXR8MKII	DXR10MKII	DXR12MKII	DXR15MKII	DXS12MKII	DXS15MKII	DXS18
TRANSDUCERS	8" + 1.75"	10" + 1.75"	12" + 1.75"	15" + 1.75"	12"	15"	18"
POWER AMP	1100 W	1100 W	1100 W	1100 W	1020 W	1020 W	1020 W
PEAK SPL	130 dB SPL	132 dB SPL	134 dB SPL	134 dB SPL	134 dB SPL	135 dB SPL	136 dB SPL
FREQUENCY RANGE (-10DB)	57 Hz - 20 kHz	56 Hz - 20 kHz	52 Hz - 20 kHz	49 Hz - 20 kHz	42 Hz - 150 Hz	40 Hz - 150 Hz	32 Hz - 120 Hz
NOMINAL COVERAGE	90° x 60°	90° x 60°	90° x 60°	90° x 60°	-	-	-
ANALOGUE IN	IN: 1 x XLR, 2 x PHONE, 2 x RCA	IN: 1 x XLR, 2 x PHONE, 2 x RCA	IN: 1 x XLR, 2 x PHONE, 2 x RCA	IN: 1 x XLR, 2 x PHONE, 2 x RCA	IN: 2 x XLR	IN: 2 x XLR	IN: 2 x XLR
ANALOGUE OUT				2 x XLR			
MEASURES W X H X D	280 x 458 x 280 mm	305 x 502 x 310 mm	362 x 601 x 350 mm	445 x 700 x 380 mm	400 x 567 x 570 mm	480 x 611 x 614 mm	563 x 683 x 721 mm
WEIGHT	12.8 kg	13.9 kg	18.6 kg	21.8 kg	30 kg	36 kg	49.7 kg
CABINET MATERIAL	ABS	ABS	ABS	ABS	meranti plywood	meranti plywood	meranti plywood
COLOUR				black			
MOUNTING & FLYING	3 x M8, 35 mm pole socket 7° + 0°	3 x M8, 35 mm pole socket 7° + 0°	3 x M10, 35 mm pole socket 7° + 0°	3 x M10, 35 mm pole socket 7° + 0°	pole socket (D=80 mm) + M20 threaded (D=25 mm)	pole socket (D=80 mm) + M20 threaded (D=25 mm)	pole socket (D=80 mm) + M20 threaded (D= 25mm)

CLASS-D AMPLIFIERS



DURABLE, COMPACT ABS ENCLOSURES





SPW-1 WHEEL KIT FOR DXS SERIES (OPTION, SEE PAGE 59)



DZR / DXS-XLF SERIES

HIGH POWER SOUND REINFORCEMENT SPEAKERS



DZR315(-D) & DXS18XLF(-D)

D7R15(-D) & DXS18XLF(-D)

DZR12(-D) & DXS15XLF(-D)

D7R10(-D) & DXS15XLF(-D)

POWER AND PERFORMANCE. INTEGRATED

DZR AND DXS-XLF SERIES is positioned at the highest level of Yamaha professional live SR powered loudspeakers and Yamaha's first fully integrated & digitally connected and smart/editable Speaker Range for Professional Live Sound Productions - in particular considering the Dante versions. Based on Yamaha's long professional audio experiences with digital processing technologies, amplifier designing and speaker development know-how, ultimate power is now available as 10", 12" and 15" 2-way enclosure and 15", 8" and 2" 3-way enclosure, matched by two new 'eXtended Low Frequency' subwoofers for a natural, balanced yet extremely powerful and clear sound. Truly musical bass sound reproduction, truly professional sound clarity and best-in-class sound pressure level guarantee a perfect performance for any music genre.

KEY FEATURES

- 96KHZ HIGH PERFORMANCE DSP WITH 48KHZ SAMPLE RATE CONVERTOR FOR TRULY HIGH-DEFINITION SOUND WITH SUPER LOW LATENCY
- ADVANCED FIR-X TUNING, THE COMBINATION OF FIR FILTERING AND EQ
- D-CONTOUR AND HIGHLY RELIABLE PROTECTION
- DANTE MODELS LISTED FOR SOPHISTICATED INTEGRATION WITH DIGITAL CONSOLES AND THE PROVISIONAIRE SOFTWARE SUITE
- HIGH POWER 2000 W CLASS-D AMPLIFIERS
- DURABLE PLYWOOD CABINET WITH POLYUREA COATING

DETAILS





DZR (D) REAR PANELS





UB-DZR10V/12V/15V VERTICAL U-BRACKET UB-DZR10H/12H/15H HORIZONTAL U-BRACKET (OPTION, SEE PAGE 58)

SPCVR-DZR10/12/15/325 SPEAKER COVERS SPCVR-DXS15X/18X SUBWOOFER COVERS (OPTION, SEE PAGE 59)

OUICK SPECIFICATIONS

	DZR10(D)	DZR12(D)	DZR15(D)	DZR315(D)	DXS-15XLF(D)	DXS18-XLF(D)
TRANSDUCERS	10" + 2"	12" + 2"	15" + 2"	15"+ 8"+ 2"	15"	18"
POWER AMP	2000 W	2000 W	2000 W	2000 W	1600 W	1600 W
PEAK SPL	137 dB SPL	139 dB SPL	139 dB SPL	143 dB SPL	136 dB SPL	136 dB SPL
FREQUENCY RANGE (-10DB)	44 Hz - 20 kHz	39 Hz - 20 kHz	34 Hz - 20 kHz	31 Hz - 20 kHz	33 Hz - 150 Hz	30 Hz - 150 Hz
NOMINAL COVERAGE	90° x 60° (rotatable)	90° x 60° (rotatable)	90° x 50°, (rotatable)	75° x 50°	-	-
ANALOGUE I/O		IN: 2 × COMBO, OUT: 2 × XLR				
NETWORKED INPUTS (D MODELS)			Dante: Et	hercon x 2		
MEASURES W X H X D	315 x 537 x 345 mm	410 x 646 x 394 mm	450 x 761 x 460 mm	550 x 897 x 520 mm	450 x 587 x 600 mm	550 x 657 x 720 mm
WEIGHT	17.9 kg	21.4 kg	25.2 kg	41.6 kg	40 kg	48.9 kg
CABINET MATERIAL			Polyurea coa	ated plywood		
COLOUR			black,	white		
MOUNTING & FLYING	M10 x 8, M8 x2, 35mm pole socket	M10 x 12, 35 mm pole socket	M10 x 12, 35mm pole socket	M10 x 16, 35mm pole socket	35 mm pole socket, M20 thread	35 mm pole socket, M20 thread

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DXS-XLF (D) REAR PANELS



2000W CLASS D POWERMODULE



SPW-1 WHEEL KIT FOR DXS XLF SERIES (OPTION, SEE PAGE 59)



CONFERENCE

DXL1K

POWERED COLUMN-TYPE LOUDSPEAKER

PORTABLE POWERHOUSE

The **DXL1K** is a column-type powered speaker with a powerful 125dB ${\sf SPL}\ {\sf peak} @ 1m\ {\sf sound}\ {\sf output}\ {\sf that}\ {\sf belies}\ {\sf its}\ {\sf extremely}\ {\sf portable}\ {\sf slim}\ {\sf body}.$ The combination of an easy setup procedure that only requires the line-array speaker to be attached to the top of the subwoofer cabinet, with the system expandability offered by the Link function, allows the DXL1K to be used in combination with a compact mixer or with the fully compatible STAGEPAS 1K mkII, creating a simple, compact, and high-quality PA system.

KEY FEATURES

- J-CURVE SLIM LINE ARRAY (10X 1.5")
- CLASS LEADING 12" SUBWOOFER
- HIGH EFFICIENCY 1100W CLASS-D AMP
- ONBOARD 2-CHANNEL MIXER
- LINK I/O FOR EASY SYSTEM EXPANSION
- DEDICATED COVER INCLUDED
- OPTIONAL DOLLYBOARD (DL-SP1K)

DETAILS





DXL1K TOP VIEW





12" SUBWOOFER

EASY SETUP

QUICK SPECIFICATIONS

	DXL1K
TRANSDUCERS	HF: 10x 1.5" (3.8 cm), LF: 1x 12" (30 cm)
POWER AMP	1100 W
PEAK SPL	125 dB SPL
FREQUENCY RANGE (-10DB)	37 – 20 kHz
NOMINAL COVERAGE	H170° x V30°
ANALOGUE IN	2x Combo-In (1x Mic/Line, 1x Line), 1x LINK IN (XLR)
ANALOGUE OUT	1x LINK OUT (XLR)
MEASURES W X H X D	System: 334 x 2000 x 418 mm (max.)
WEIGHT	23 kg
CABINET MATERIAL	plastic
COLOUR	black, polyurea coating
OPTIONAL ACCESSORIES	DL-SP1K (dedicated dolly)



STEREO EXPANSION WITH STAGEPAS1KMK2



DEDICATED COVER WITH STORAGE FOR HF UNIT (INCLUDED)



SOPHISTICATED AMP & DSP



BROADCAST

MS & MSP SERIES

PERSONAL MONITORS







MSP3A

COMPACT MONITOR SPEAKERS FOR LIVE AND STUDIO

The MSP3A reference monitor is designed to be the ideal choice for small studios and post-production setups, while the MS101-4 is the ideal tool for personal monitoring in live environments. Featuring XLR and jack inputs and front panel controls for equalizing and level, the monitors can be applied on the spot as a shelf speaker, or mounted close to the mixing console using the optional free angle clamp and mic stand adaptors. For installations, ceiling and wall mount brackets are available.

KEY FEATURES

- PRECISION, FATIGUE-FREE MONITORING SPEAKERS
- HIGH-PERFORMANCE POWER AMPLIFIER BUILT IN
- FRONT PANEL CONTROLS
- COMPACT CABINET SIZE
- LIGHT WEIGHT
- WALL, CEILING, CLAMP AND MIC STAND MOUNTING OPTIONS

DETAILS





BCS20-150/210 CEILING BRACKET (OPTION, SEE PAGE 58)





BMS-10A MIC STAND ADAPTOR (OPTION, SEE PAGE 58)

MSP3A REAR PANEL

QUICK SPECIFICATIONS

MSP3A
4" + 0.8"
22 W
99 dB SPL
67 Hz - 22 kHz
1 x combo, 1 x RCA
144 x 236 x 166 mm
3.6 kg
plastic
black
2 x M5 (D=15mm)

BWS20-120/190 WALL BRACKET (OPTION, SEE PAGE 58)



BAS10 FREE-ANGLE CLAMP (OPTION, SEE PAGE 58)



MS101-4 REAR PANEL

MS101-4
4" + 1"
20 W
115 db spl
77 hz - 20 khz
1 x combo, 1 x stereo mini, 1 x rca
142 x 196 x 187 mm
2.1 kg
plastic (combine cells)
black (combine cells)
2 x m5 (d=15mm) (combine cells)



HS SERIES

STUDIO MONITOR SPEAKERS

60

2





DETAILS





HS5/7/8 REAR PANEL

TIME FOR A REALITY CHECK

When choosing reference monitors for mixing and music production, accuracy is the prime consideration. Speakers that sound "good" on first impression may not necessarily be accurate. The **HS SERIES** monitors provide an honest reference for your mix, rather than monitors that have been tweaked or coloured to deceptively sound impressive.

Ever since the 1970's the iconic white woofer and signature sound of Yamaha's nearfield reference monitors have become a genuine industry standard for a reason - their accuracy. Unlike studio monitors with added bass or treble frequencies which may sound more flattering at first, HS Series speakers were designed to give you the most honest, precise reference possible, providing an ideal sonic platform to build on throughout the mixing process. By combining acquired knowledge and expertise with state-of-the-art sound technologies, Yamaha's speaker engineering team have examined, then optimized, every aspect that has contributed to making these monitors the most trusted in the business, bringing exceptional monitoring accuracy to any recording environment.

KEY FEATURES

- HIGH PRECISION REFERENCE NEARFIELD STUDIO MONITORS
- BI-AMPED BASS REFLEX MDF ENCLOSURE IN BLACK AND WHITE COLOUR
- ROOM CONTROL AND HIGH TRIM RESPONSE SWITCHES
- **XLR AND PHONE JACK INPUTS**
- MATCHED PAIR SETS AVAILABLE FOR PERFECT STEREO IMAGE
- SHELFTOP AND INSTALLATION VERSIONS

QUICK SPECIFICATIONS

	HS5 (I)	HS7 (I)	HS8 (I)	HS8S
TRANSDUCERS	5" + 1"	6.5" + 1"	8" + 1"	8"
POWER AMP	70 W	95 W	120 W	150 W
FREQUENCY RANGE (-10DB)	54 Hz - 30 kHz	43 Hz - 30 kHz	38 Hz - 30 kHz	22 Hz - 160 Hz
ANALOGUE IN	1 x XLR, 1 x phone	1 x XLR, 1 x phone	1 x XLR, 1 x phone	2 x XLR
ANALOGUE OUT	-	-	-	2 x XLR
MEASURES W X H X D	170 x 285 x 222 mm	210 x 332 x 284 mm	250 x 390 x 334 mm	300 x 350 x 389 mm
WEIGHT	5.3 kg (5.5 kg)	8.2 kg (8.7 kg)	10.2 kg (10.7 kg)	12.5 kg
CABINET MATERIAL		Ν	/IDF	
COLOUR	black, white	black, white	black, white	black
RIGGING (I VERSION)	4 sides x 2 x M5	4 sides x 2 x M5	4 sides x 2 x M5	-

HS8S REAR PANEL



HS INSTALLATION VERSION MOUNT OPTIONS



SPEAKER BRACKETS FOR ACTIVE SPEAKERS



UB-DZR10H / UB-DZR12H / UB-DZR15H HOPRIZONTAL U-BRACKETS FOR DZR AND CZR SERIS



UB-DZR10V / UB-DZR12V / UB-DZR15V VERTICAL U-BRACKETS FOR



UB-DXR8 / UB-DXRDHR10 / UB-DXR12 / UB-DXR15 HORIZONTAL / VERTICAL U-BRACKETS FOR DXR SERIES







BWS251-300/400 WALL BRACKETS MAX LOAD: 30 KG



WALL BRACKETS MAX LOAD: 20 KG



MAX LOAD: 4 KG

BAS-10

FREE ANGLE CLAMP



SPVCR-DZR10



SPVCR-DZR12

SPVCR-DXS15XLF

SPVCR-DXS18XLF





SPVCR-DXS152

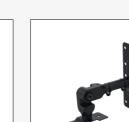
COVER COMPATIBILITY

		SPVCR-						SPC	VR-					
	DZR10	DZR12	DZR15	DXR315	DXS122	DXS152	DXS18	DXS15X	DXS18X	0801	1001	1201	1501	SPW-1
DBR10											×			
DBR12												X		
DBR15													X	
DXR8MKII										X				
DXR10MKII											X			
DXR12MKII												X		
DXR15MKII													X	
DXS12MKII					×								X	X
DXS15MKII						×							X	X
DXS18							0						X	X
DZR10(D)	Х													
DZR12(D)		X												
DZR15(D)			X											
DZR315(D)				Х										
CXS15XLF								0						Х
CXS18XLF									0					Х









BCS20-150/210 CEILING BRACKETS MAX LOAD: 10 KG



BMS10A

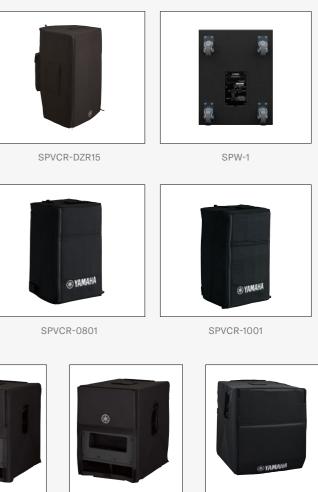
MIC STAND ADAPTOR MAX LOAD: 5 KG

BRACKET COMPATIBILITY

	UB- DXR8	UB- DXR DHR 10	UB- DXR12	UB- DXR15	UB- DZR10H	UB- DZR12H	UB- DZR15H	UB- DZR10V	UB- DZR12V	UB- DZR15V	BBS 251	BCS 251	BWS251 -300 -400	BWS50 (190, 260)	BCS20 (150, 210)	BWS20 (120, 190)	BMS 10A	BAS- 10
DBR10											X	Х	×					
DBR 12											Х	Х	X					
DBR 15											Х	Х	Х					
DHR10		Х																
DXR8MKII	Х																	
DXR10MKII		Х																
DXR12MKII			X															
DXR15MKII				Х														
DZR 10					Х			X										
DZR 12						X			Х									
DZR 15							X			Х								
MSP3A															Х	Х	Х	Х
MS101-IV															Х	X	Х	Х
HS5-I															X	×		
HS7-I											Х	Х	×	×				
HS8-I											Х	Х	X	X				

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SPEAKER COVERS FOR ACTIVE SPEAKERS



SPVCR-DXS122



SPVCR-DXS122



POWERED SR SPEAKER SPECIFICATIONS GENERAL & ELECTRO-ACOUSTIC PARAMETERS

				DBR SERIES	;		DHR SERIES	6		DXR MK	II SERIES	
			DBR10	DBR12	DBR15	DHR10	DHR12M	DHR15	DXR8	DXR10	DXR12	DXR15
SYSTEM		ТҮРЕ		bi-amped		<u> </u>	bi-amped		MKII	MKII bi-ar	MKII mped	MKII
0101LIII				bi ampea			bi unpeu			51 61	npea	
		HF	COI	npression dr	iver	CO	mpression dr	iver	compression driver			
		LF		bass-reflex			bass-reflex		bass-reflex			
PEAK SPL			129 dB SPL	131 dB SPL	132 dB SPL	128 dB SPL	129 dB SPL	131 dB SPL	130 dB SPL	132 dB SPL	134 d	B SPL
FREQUENCY RAN	IGE		55 Hz - 20 kHz	52 Hz - 20 kHz	50 Hz - 20 kHz	52 Hz - 20 kHz	55 Hz - 20 kHz	44 Hz - 20 kHz	57 Hz - 20 kHz	56 Hz - 20 kHz	52 Hz - 20 kHz	49 Hz - 20 kHz
CROSSOVER	PASSIVE	MF/HF	20 KHZ	20 KH2	20 KH2	20 KH2		20 KHZ	20 KH2	20 KH2	20 KHZ	20 KH2
DIGGGGGTER	ACTIVE	LF/HF		2.1 kHz		1.9 kHz	1.8 kHz	1.8 kHz	2.4 kHz	2.3 kHz	2.1 kHz	2.1 kHz
COVERAGE ANG		DEGREES		90°			90°	nonic			0°	2.0.00
		HORIZONTAL DEGREES VERTICAL		60°			60°			6	0°	
		ROTATABLE		_		yes	-	-	<u> </u>			
TRANSDUCERS	LF	CONE DIAMETER	10"	12"	15"	10"	12"	15"	8"	10"	12"	15"
		VOICE COIL DIAMETER	2"	2"	2.5"	2"	2.5"	2.5"	2"	2"	2.5"	2.5"
		MAGNET MATERIAL		Ferrite	1		Ferrite			Fer	rite	
	MF	CONE DIAMETER		-			-				-	
		VOICE COIL DIAMETER		-			-				-	
		MAGNET MATERIAL	-				-				-	
	HF	VOICE COIL DIAMETER	1" 1.4"			1.4"	1.75"	1.4"		1.7	75"	
		THROAT DIAMETER		1"			1"			1	77	
		DIAPHRAGM MATERIAL		PET			PET		PET			
		MAGNET MATERIAL		Ferrite			Ferrite			Neody	ymium	
DIMENSIONS (MI	VI)	W	308 mm	376 mm	455 mm	305 mm	500 mm	432 mm	280 mm	305 mm	362 mm	445 mn
		Н	493 mm	601 mm	700 mm	494 mm	343 mm	692 mm	458 mm	502 mm	601 mm	700 mn
		D	289 mm	348 mm	378 mm	300 mm	454 mm	405 mm	280 mm	310 mm	350 mm	380 mr
WEIGHT (KG)			10.5 kg	15.8 kg	19.3 kg	15 kg	16.5 kg	24 kg	12.8 kg	13.9 kg	18.6 kg	21.8 kg
ENCLOSURE MAT	ERIALS	MATERIAL		plastic			plywood			A	BS	
		FINISH		-		p	olyurea coati	ng		ma	itte	
		COLOUR		black			black			bla	ack	
		IP RATING		-		-				-		
POLE SOCKET		35MM 0 DEGREES		1		1					1	
		35MM 7 DEGREES		-		- 1 1			1			
		M20 THREADED		-			-				-	
RIGGING POINTS		M8	2	3	3		-		3	3	-	-
		M10		-		3	-	3	-	-	3	3
HANDLES		ТОР	1		-	1	-	-	1	1	-	-
		SIDE	-	2	2	-	1	2	-	-	2	2
FLOOR MONITOR	ANGLE		50°	50° sym	metrical	<u> </u>	57°	-	-	50°	50° svm	metrical

DATEMINDATIMDATM		DXS SERIES				D7R / [DXS-XLF SERIES	5			
nabes of all	DXS12MKII		DXS18	DZR10	DZR12				DXS18XLF	DXL1K	
····································		subwoofer			bi-ar	nped		subw	Powered sub- woofer with line		
bard-pasi bard-pasi base-relize		-			compress	ion driver				compression	
134 db SPL136 db SPL137 db SPL137 db SPL143 db SPL143 db SPL133 dif. SD Mr.93 Mr. SD Mr.93 Mr. SD Mr.93 Mr. 		L I									
netn	134 dB SPI		136 dB SPI	137 dB SPI			143 dB SPI				
Image <t< td=""><td>104 00 01 2</td><td>100 00 01 2</td><td>100 00 01 0</td><td></td><td>100 00 01 0</td><td></td><td>HOUDOIL</td><td>100 0</td><td></td><td>120 00</td></t<>	104 00 01 2	100 00 01 2	100 00 01 0		100 00 01 0		HOUDOIL	100 0		120 00	
.18 kHz12 kHz12 kHz100 Hz.240 Hz90°90°90°75°	42 Hz - 150 Hz	40 Hz - 150 Hz	32 Hz - 120 Hz	44 Hz - 20 kHz	39 Hz - 20 kHz	34 Hz - 20 kHz	31 Hz - 20 kHz	33 Hz - 150 Hz	30 Hz - 150 Hz	37 Hz - 20 kHz	
···		-		-	-	-	2.5kHz			-	
Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image 		-		1.8 kHz	1.8 kHz	1.7 kHz	700 Hz			240 Hz	
Image: constraint of the sector of the se		-		90°	90°	90°	75°			170°	
12°15°18°10°12°15°15°15°18°12°2.5°2.5°4°		-		60°	60°	60°	50°			30°	
2.5° 4° Image: serie set of the seciency of the se		-		Yes	Yes	Yes	-	-		-	
FerriteImage: constraint of the sector of the s	12"	15"	18"	10"	12"	15"	15"	15"	18"	12°	
Image <t< td=""><td>2.5"</td><td>2.5"</td><td>4"</td><td></td><td>3</td><td>³⁷</td><td></td><td>4</td><td>77</td><td>-</td></t<>	2.5"	2.5"	4"		3	³⁷		4	77	-	
	I	Ferrite			Neody	/mium		Fer	rite	Ferrite	
ImageImageImageImageImageImageImageImageImage·· <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>8"</td> <td></td> <td></td> <td>· ·</td>		-		-	-	-	8"			· ·	
Image Image <		-		-	-	-	1.5"	-		-	
Image: marked back state Image: marked		-		-	-	-	Ferrite			-	
Image: constraint of the system of the sy		-			2	77				1.5" (x10)	
Image: https://product image: http://product ima		-			1	39		-	-		
Image: constant for the strength of the strengt of the strength of the strength of the stren		-			Titar	nium		-		Plastic	
$661 \mathrm{mm}$ $683 \mathrm{mm}$ $537 \mathrm{mm}$ $646 \mathrm{mm}$ $761 \mathrm{mm}$ $897 \mathrm{mm}$ $587 \mathrm{mm}$ $657 \mathrm{mm}$ $200 \mathrm{mm}$ $570 \mathrm{mm}$ $614 \mathrm{mm}$ $721 \mathrm{mm}$ $345 \mathrm{mm}$ $395 \mathrm{mm}$ $460 \mathrm{mm}$ $520 \mathrm{mm}$ $600 \mathrm{mm}$ $720 \mathrm{mm}$ $418 \mathrm{mm}$ $30 \mathrm{kg}$ $36 \mathrm{kg}$ $49.7 \mathrm{kg}$ $17.9 \mathrm{kg}$ $21.4 \mathrm{kg}$ $25.2 \mathrm{kg}$ $410 \mathrm{kg}$ $460 \mathrm{sg}$ $400 \mathrm{kg}$ $48.9 \mathrm{kg}$ $23 \mathrm{kg}$ $\operatorname{meranti plywood$ $49.7 \mathrm{kg}$ $17.9 \mathrm{kg}$ $21.4 \mathrm{kg}$ $25.2 \mathrm{kg}$ $416 \mathrm{kg}$ $48.9 \mathrm{kg}$ $23 \mathrm{kg}$ $\operatorname{meranti plywood$ $49.7 \mathrm{kg}$ $17.9 \mathrm{kg}$ $21.4 \mathrm{kg}$ $21.6 \mathrm{kg}$ $700 \mathrm{kg}$ 7		-			Neody	/mium		-		Ferrite	
570 mm 614 mm 721 mm 345 mm 395 mm 460 mm 520 mm 600 mm 720 mm 418 mm 30 kg 36 kg 49.7 kg 17.9 kg 21.4 kg 25.2 kg 41.6 kg 40 kg 48.9 kg 23 kg meranti plywood meranti plywood M <td< td=""><td>400 mm</td><td>480 mm</td><td>563 mm</td><td>315 mm</td><td>410 mm</td><td>450 mm</td><td>550 mm</td><td>450 mm</td><td>550 mm</td><td>334 mm</td></td<>	400 mm	480 mm	563 mm	315 mm	410 mm	450 mm	550 mm	450 mm	550 mm	334 mm	
30 kg 49.7 kg 17.9 kg 21.4 kg 25.2 kg 41.6 kg 40 kg 48.9 kg 23 kg $\mbox{meranti plywod}$ \mb	567 mm	611 mm	683 mm	537 mm	646 mm	761 mm	897 mm	587 mm	657 mm	2000 mm	
meranti plywood $\begin{titeded}{c c c c } \hline \begin{titeded}{c c c c c } \hline \begin{titeded}{c c c c c } \hline \begin{titeded}{c c c c c c c } \hline \begin{titeded}{c c c c c c c c c c c c c c c c c c c $	570 mm	614 mm	721 mm	345 mm	395 mm	460 mm	520 mm	600 mm	720 mm	418 mm	
Image: Polyurea Polyurea Polyurea Polyurea coating/ matter black Image: Polyurea Polyurea Polyurea coating/ matter black Image: Polyurea Polyurea Polyurea - Image: Polyurea Image: Polyurea Polyurea <td>30 kg</td> <td>36 kg</td> <td>49.7 kg</td> <td>17.9 kg</td> <td>21.4 kg</td> <td>25.2 kg</td> <td>41.6 kg</td> <td>40 kg</td> <td>48.9 kg</td> <td>23 kg</td>	30 kg	36 kg	49.7 kg	17.9 kg	21.4 kg	25.2 kg	41.6 kg	40 kg	48.9 kg	23 kg	
Image: Second		meranti plywood			plyv	vood		plyw	rood	ABS	
\cdot \cdot \cdot \cdot \cdot 1 (d=80 mm)111 \cdot 1 (d=80 mm)not applicable \cdot 111 \cdot \cdot \cdot not applicable \cdot 11 \cdot \cdot \cdot \cdot \cdot 1 (d=25 mm) \cdot \cdot \cdot \cdot \cdot \cdot \cdot 2 \cdot \cdot \cdot \cdot \cdot \cdot 8121216 \cdot \cdot \cdot 1 \cdot \cdot \cdot <td></td> <td>polyurea</td> <td></td> <td></td> <td>poly</td> <td>urea</td> <td></td> <td>poly</td> <td>urea</td> <td>polyurea coating/ matte</td>		polyurea			poly	urea		poly	urea	polyurea coating/ matte	
1 (d=80 mm) 1 1 1 - 1 (d=80 mm) not applicable - 1 1 1 - 1 (d=80 mm) not applicable - 1 1 1 - - not applicable 1 (d=25 mm) - - 1 (d=25 mm) - - - 2 - - - 1 (d=25 mm) - - 1 2 12 16 - - - 1 - - - - - - 1 - - - - - 2 1 2 2 2 2 2		black			B/	W		B/	W	black	
Image: Constraint of the second sec		-				-		-	-		
Image: Second		1 (d=80 mm)		1	1	1	-	1 (d=8	0 mm)	not applicable	
- 2 - - - - - - - - 8 12 12 16 - <td></td> <td>-</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>-</td> <td>-</td> <td></td> <td>not applicable</td>		-		1	1	1	-	-		not applicable	
- 8 12 16 - - 1 - - - 2 1 2 2 2		1 (d=25 mm)						1 (d=2	-		
- 1 -		-		2	-	-	-	-	-		
2 1 2 2 2 2 2		-		8	12	12	16	-			
		-		1	-	-	-				
- 50° 50° symmetrical not applicable		2		1	2	2	2				
		-		50°	50° sym	metrical	-	-		not applicable	

FOR AMPLIFIER & DSP SPECIFICATIONS SEE NEXT PAGE



POWERED SR SPEAKER SPECIFICATIONS AMPLIFIER & DSP PARAMETERS

			D	BR SERIES	;	DHR SERIES			DXR MKII	SERIES		
			DBR10	DBR12	DBR15	DHR12	DHR12	DHR10		DXR10 MKII		XR15 /IKII
AMPLIFIER TYP	PE			Class-D			Class-D			Class	s-D	
POWER	DYNAMIC	TOTAL		700 W		700 W	1000 W	1000 W		1100	W	
RATING		LF		500 W		500 W	800 W	800 W		950	W	
		MF/HF		200 W		200 W	200 W	200 W		150	W	
	BURST	TOTAL		-			-		-			
		LF		-			-			-		
		MF/HF	-				-			-		
	CONTINUOUS	TOTAL		325 W		325 W	465 W	465 W		700	W	
		LF		260 W		260 W	400 W	400 W		600	W	
		MF/HF		65 W		65 W	65 W	65 W		100	W	
DSP	HARDWARE	SAMPLE FREQUENCY		48 kHz			48 kHz			48 KI	HZ	
		SRC		-			-			-		
	FUNCTIONS	CROSSOVER		FIR-X			-			FIR-	-X	
		MULTI-BAND COMPRESSOR	D	-CONTOUR	2		D-CONTOUR	2		D-CON1	TOUR	
		EQ	FOH/I	MAIN, MON	IITOR	FOH	I/MAIN, MON	ITOR	FOH/MAIN, MONITOR		MONITOR	
I/O	AD/DA	SAMPLE FREQUENCY		48 kHz		48 kHz			48 KI	HZ		
		IN LEVEL		+24 dBu		+24 dE	8u (MIC:58:61-	-8 dBU)		+24 D	BU	
	DANTE (D MODELS ONLY)	SAMPLE FREQUENCY		-			-			-		
	UNEI)	I/O CHANNELS		-			-			-		
CONNECTORS	ANALOGUE	IN CONNCETOR COMBO	2			2			-			
		IN CONNECTOR XLR		-			-			1		
		IN CONNECTOR PHONE		-			-			2		
		IN CONNECTOR RCA		2			2			2		
		OUT CONNEC- TOR XLR		1			1			2		
	DANTE & CONTROL (D MODEL	PRIMARY ETHERCON CAT5E		-			-			-		
	ONLY)	SECONDARY ETHERCON CAT5E		-			-			-		
	CONTROL	USB 2.0		-					-			
	AC	EIC V-LOCK		1			1			1		
POWER CONSUMPTION		VOLTAGE REQUIREMENTS	Depending 100-240 V o) on area of or 220-240 V	purchase; /, 50/60Hz	Dependir 100-240 V	ng on area of Vor 220-240 V	purchase; /, 50/60Hz	Depen 100-240	ding on are V or 220-2	ea of purchase; 240 V, 50/60 Hz	
		IDLE		18 W			18 W			35 V	N	
		1/8 POWER	60 V	N	74 W	60 W	74 W	74 W		110 \	W	
		FAN, VARIABLE SPEED		yes			yes			-		

DXS SERIES	DZR / DXS-XLF SERIES				
DXS12 DXS15 DXS18 MKII MKII	DZR10 DZR12 DZR15 DZR315	DXS15XLF DXS18XLF	DXL1K		
Class-D	Class-D	Class-D	Class-D		
1020 W	2000 W	1600 W	1100 W		
-	1000 W	-	500 W		
-	1000 W	-	600 W		
-	1100 W	1300 W	-		
-	1000 W	-	-		
-	100 W	-	-		
800 W	950 W	1200 W	-		
-	850 W	-	-		
-	100 W	-	-		
48 KHz	96 KHz	96 KHz	48 KHz		
-	yes	yes			
-	FIR-X	FIR-X			
D-XSUB	D-CONTOUR	D-XSUB			
BOOST, XTD LF, NORMAL	FOH/MAIN, MONITOR	BOOST, XTD LF, NORMAL	MODE (1-KNOB)		
48 KHz	96 kHz	96 kHz	48 KHz		
+24 DBU	+24 dBu	+24 dBu	+24 dBu		
-	44.1 - 96 kHz	44.1 - 96 kHz	-		
-	2/2	2/2	-		
-	2	2	2		
2	-	-	1		
-	-	-	-		
-	-	-	-		
2	2	2	1		
-	1	1	-		
-	1	1	-		
-	- 1		-		
1	1	1	1		
Depending on area of purchase; 100-240 V or 220-240 V, 50/60 Hz	Depending on area of purchase; 100-240 V or 220-240 V, 50/60 Hz	Depending on area of purchase; 100-240 V or 220-240 V, 50/60 Hz	Depending on area of purchase; 100-240 V or 220- 240 V, 50/60Hz		
35 W	45 W	40 W	25 W		
100 W	150 W	180 W	91 W		
yes	yës	yes	yes		

FOR LOUDSPEAKER SPECIFICATIONS SEE PREVIOUS PAGE

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POWERED MONITOR SPEAKER SPECIFICATIONS

			PERSONAL	MONITORS
			MSP3A	MS101-4
SYSTEM		TYPE	full ra	inge
		HF	soft dome	-
		LF	bass-r	eflex
PEAK SPL			99 dB SPL	115 dB SPL
FREQUENCY RANGE			67 Hz - 22 kHz	77 Hz - 20 kHz
CROSSOVER	PASSIVE	MF/HF	4 kHz	-
	ACTIVE	LF/HF	-	
TRANSDUCERS	LF	CONE DIAMETER	4'	,
	HF	VOICE COIL DIAMETER	0.8"	
CABINET MATERIAL			plas	tic
COLOUR			bla	ck
DIMENSIONS (MM)		W	144 mm	142 mm
		Н	236 mm	196 mm
		D	166 mm	187 mm
WEIGHT (KG)			3.6 kg	2.1 kg
RIGGING POINTS		M5	2 (D = 15 mm)	2 (D = 11 mm)
		M8	-	-
AMPLIFIER			clas	s D
POWER RATING	DYNAMIC	TOTAL	22 W	30 W
		LF	-	
		MF/HF	-	
CONNECTORS	ANALOGUE	IN CONNCETOR COMBO	1	
		IN CONNECTOR XLR	-	
		IN CONNECTOR PHONE	-	1 stereo mini
		IN CONNECTOR RCA	1	
		OUT CONNECTOR XLR	-	
	POWER	AC	IEC powe	er cable
CONTROLS		LEVEL ROTARY	2 x line in	1 x volume
		EQ ROTARY	low +/- 3dB@100Hz + high +/-3 dB @ 10kHz	low +/- 10dB + high + /-10 dB
		LOW CUT SWITCH	-	5.5 kg
		ROOM CONTROL SWITCH	-	
		HIGH TRIM SWITCH	-	
		PHASE SWITCH	-	
POWER		VOLTAGE REQUIREMENTS	Depending on area of purcha 50/60	se; 100-240 V or 220-240 DHz
		POWER CONSUMPTION @ 1/8 POWER	22 W	10 W

	HSS	SERIES	
HS5(I)	HS7(I)	HS8(I)	HS8S
	bi-amped		subwoofer
	soft dome		-
	bass-reflex		bass-reflex
	-		-
54 Hz - 30 kHz	43 Hz - 30 kHz	38 Hz - 30 kHz	22 Hz - 160 Hz
	-		-
	2 kHz		-
5"	6.5"	8"	8 "
	1"		-
	MDF		MDF
	black, white		black
170 mm	210 mm	250 mm	300 mm
285 mm	332 mm	390 mm	350 mm
222 mm	284 mm	334 mm	389 mm
class5.3 kg (5.5 kg)	8.2 kg (8.7 kg)	10.2 kg (10.7 kg)	12.5 kg
-	(4 si	des x 2)	-
(4 sides x 2)		-	-
70 W	95 W	120 W	150 W
45 W	60 W	75 W	-
25 W	35 W	45 W	-
	-		-
	1		2
	1		2
	-		-
	-		2
	IEC		IEC
	1 x line in		1 x line in
	-		low 80 Hz - 120 Hz + high 80 Hz - 10kHz
	-		low cut (on/off)
	500 Hz 0 / -2 / -4 dB		-
	2 kHz +2 / -2 dB		-
	-		norm / rev
Depending or	n area of purchase; 100-240 V or 220-2	40 V, 50/60 Hz	
45 W	55 W	60 W	70 W

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PORTABLE PA SYSTEMS

PORTABLE PAS ARE A GREAT WAY TO TURN ANY INDOOR OR OUTDOOR SPACE INTO AN **IMPROMPTU VENUE FOR LIVE PERFORMANCES, PRESENTATIONS, CORPORATE MEETINGS** OR OTHER EVENTS WHERE YOU NEED TO BE HEARD.

With STAGEPAS SYSTEMS, Yamaha's long heritage of speaker, mixer and amplifier design are brought together with the most up to date audio technology. They provide an all-in-one portable PA with loudspeakers, a powered mixer and enough inputs to handle a live band. They are easy to transport, fast to set up, simple to use and deliver clear, powerful sound for a wide range of potential uses.

The STAGEPAS 1KMK2 again takes the portable PA format to a new level, combining a J-curve, high frequency array with a 12" subwoofer to deliver clear, consistent sound over both longer and wider distances. The slimline speakers also enhance audience sightlines, while the systems simple control, is enhanced by STAGEPAS EDITOR, a dedicated remote control application for iOS and Android devices.

STAGEPAS 400BT and 600BT can be set up in a variety of PA or monitor combinations and combine powered mixers with a voice coil compression driver and low frequency woofer. The STAGEPAS 200 is a premium portable PA system that performs well above its weight class and come either battery powered or mains operated, giving you the full flexibility from street performances, to events, parties, and speeches.

The STAGEPAS 100 portable PA system strikes a further perfect balance between high quality sound and ultimate portability that will allow you to turn virtually any location into your own intimate live stage.

Lightweight yet durable design, effortless operation, and astonishing sound of all STAGEPAS Systems are the ticket to making all the world your stage.





LIVE SR

STAGEPAS 100/100 BTR

ULTRA-PORTABLE PA SYSTEM



EXPAND YOUR RANGE. EXTEND YOUR REACH.

The **STAGEPAS 100** portable PA system strikes a perfect balance between high quality sound and ultimate portability. A choice of two models are available; battery and non battery. Both deliver impressive sonic performance by leveraging some of the same technologies used in our high end professional products. A powerful, high quality coaxial compression driver combined with Yamaha's FIR X filters delivers high SPL, precise phase response, and a natural dispersion that will ensure every nuance of your performance is conveyed loud and clear to your audience.

With all the essentials for a compact PA packed into a durable cabinet weighing just 5 kg, the STAGEPAS 100 takes portability to a whole new level. Having a personal live stage you can easily carry in one hand makes it possible to set up and play literally anywhere, any time.



KEY FEATURES

- HIGHLY EFFICIENT 100W CLASS D AMPLIFIER
- FIR-X TUNED COAXIAL DRIVER (6.5" LF + 1.4" HF)
- **3-CH MIXER, EASY FRONT PANEL CONTROLS**
- MULTIPOINT BLUETOOTH AUDIO STREAMING
- LI-ION BATTERY WITH UP TO 6 HRS PERFORMANCE (BTR VERSION ONLY)
- OPTIONAL CARRYING BAG AVAILABLE

DETAILS & ACCESSORIES





FRONT VIEW: CONTROLS







STAGEPAS 100/100BTR

MIC STAND MOUNTED

OUICK SPECIFICATIONS

	STAGEPAS 100	STAGEPAS 100BTR				
MIXING CHANNELS	3 (2 mono + 1 stereo)					
MAX. OUTPUT POWER	100	W				
MAX. SPL	120 d	B SPL				
EQUALIZER	2-band, front	panel controls				
SPEAKER UNIT	1.4" HF + 6.5" LF coax	ial compression driver				
EFFECTS AND PROCESSING	FIR-X tuning (Cros	ssover at 1800 Hz)				
BLUETOOTH INPUT	Bluetooth Ver.5.0,	A2DP (SBC, AAC)				
OUTPUT	XLR3-32 (In	put 1-3 Mix)				
OPTIONAL ACCESSORIES	Carrying Bag	BAG-STP100				
DIMENSIONS (W/H/D)	239x310x215 mm, 5 kg	239x310x215 mm, 5.5 kg				
POWER	24V DC power adaptor	24V DC power adaptor, Lithium-Ion battery				



REAR VIEW: CONNECTIONS

BOTTOM VIEW: HANDLE/FOOT



BAG STP100 PACKED



LIVE SR

STAGEPAS 200/200 BTR

PORTABLE PA SYSTEM



MOVE THE AIR, MOVE YOUR AUDIENCE.

With power, sound and mixing capability far beyond what you would expect from its minimalist design, the STAGEPAS 200 is a premium portable PA system that performs well above its weight class. It comes in two models, either battery or mains powered (with a battery option), providing the flexibility to perform in virtually any environment, from street performances to events, parties, and speeches. Featuring a high-quality coaxial transducer design, the STAGEPAS 200 is capable of delivering best-in-class sound pressure, precise phase response, and a very natural dispersion of high frequencies. Adopting some of the same expertise used in Yamaha's high-end Professional Audio gear, this mighty yet minimalistic powerhouse will stun your audience with the full dynamic range and response of any performance.

DETAILS





STAGEPAS 200/200BTR FRONT

STAGEPAS CONTROLLER APP





STAGEPAS 200 W/ RUBBER FEET

BTR-STP200 BATTERY

OUICK SPECIFICATIONS

	STAGEPAS 200/200BTR
MIXING CHANNELS	5 (3 mono + 1 stereo)
MAX. OUTPUT POWER	180W
MAX. SPL	125 dB SPL
EQUALIZER	1-knob EQ, 4-band PEQ via Controller app
SPEAKER UNIT	1.4" HF + 8" LF coaxial compression driver
EFFECTS AND PROCESSING	SPX digital reverb (4 program, parameter control), Priority ducker, Feedback suppressor
OUTPUT PROCESSOR	1-knob-MODE (SPEECH, MUSIC, CLUB)
BLUETOOTH INPUTS	Bluetooth Ver.5.0, A2DP (SBC, AAC)
NOMINAL COVERAGE	H90° x V90°
OPTIONAL ACCESSORIES	BTR-STP200 battery (incl. with Stagepas 200BTR), CASE-STP200 carry case
DIMENSIONS (W/H/D)	System: 300 x 308 x 301 mm, 12 kg

KEY FEATURES

- HIGH EFFICIENCY 180W CLASS-D AMPLIFIER
- COAXIAL COMPRESSION DRIVER (8" LF + 1.4" HF)
- STAGEPAS CONTROLLER APP FOR FULL PARAMETER CONTROL
- BLUETOOTH AUDIO STREAMING AND REMOTE CONTROL
- LI-ION BATTERY PACK FOR 10HRS PERFORMANCE (OPTIONAL FOR STAGEPAS 200)
- OPTIONAL CARRY CASE WITH CASTERS AND TELESCOPE HANDLE

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STAGEPAS 200 MIXER



CASE-STP200 (OPTIONAL)



STAGEPAS 400/600 BT

PORTABLE PA SYSTEM



DETAILS





STAGEPAS 600BT MIXER

STAGEPAS 600BT REAR



STAGEPAS400BT MIXER UNIT

BMS10A MIC-STAND ADAPTOR (OPTION)

ALL THE WORLD'S YOUR STAGE.

The STAGEPAS SERIES portable PA system is essential for superb PA sound and performance providing in comprehensive packages that feature ideally matched mixer, power amplification, and speakers. The STAGEPAS 400/600BT feature two sleek, lightweight speakers and a detachable powered mixer, along with one pair of speaker cables and a power cord, giving you a complete, extremely portable soudn solution that can be set up quickly and easily in a variety of configurations and environments. The latest models feature Bluetooth wireless audio streaming, SPX digital reverb, 1-knob master EQ and feedback suppressor.

QUICK SPECIFICATIONS

	STAGEPAS 400BT	STAGEPAS 600BT		
MIXING CHANNELS	8	10		
MAX. OUTPUT POWER	400 W	680 W		
MAX. SPL	125 dB	129 dB		
EQUALIZER	2-band EQ	3-band EQ		
SPEAKER UNIT	LF: 8" cone / HF: 1" v. c. Driver LF: 10" cone / HF: 1,4" v. c. Driv			
EFFECTS	SPX digit	tal reverb		
OUTPUT PROCESSOR	Feedback suppresso	or, 1-knob Master EQ		
BLUETOOTH INPUTS	BT Version 4.1, A2DP, N	lax. range approx. 10 m		
SUBWOOFER OUTPUT	Yes, with	Auto-HPF		
OPTIONAL ACCESSORIES	BMS10A (mic stand adaptor for mixer mo	unt), FC5 (foot switch for reverb ON/OFF)		
DIMENSIONS	Speaker: 289 x 472 x 275 mm Mixer: 308 x 180 x 116 mm	Speaker: 335 x 545 x 319 mm Mixer: 348 x 197 x 135 mm		

KEY FEATURES

- CHANNEL-EQ AND 1-KNOB MASTER EQ
- SPX DIGITAL REVERB
- BLUETOOTH WIRELESS AUDIO STREAMING
- FEEDBACK SUPPRESSOR
- FAST AND EASY SETUP
- MONITOR AND SUBWOOFER OUTS

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BLUETOOTH FEATURE





SETUP EXAMPLE



STAGEPAS 1K MK2

PORTABLE PA SYSTEM

STEP INTO THE SPOTLIGHT.

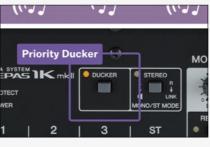
The STAGEPAS 1K MK2 is an all-in-one portable PA system that allows you to quickly and easily transform any location into your stage. Delivering professional level audio performance with a setup so simple it enables aspiring artists to focus on their music and get the most out of their performances. The STAGEPAS 1K MK2 surpasses other portable PAs with the highest standard of sound quality and sound pressure, lightweight cabinet design, professional mixing functions, and simple operability. By adopting a concert-quality mixer and speaker, we have defined a new standard for portable PA by utilizing Yamaha's unique experience and know-how developed over decades of producing innovative, professional audio equipment from every stage of music engineering and production.

DETAILS





STAGEPAS 1K MK2 MIXER





PRIORITY DUCKER

STEREO SETUP WITH DXL1K

KEY FEATURES

- J-CURVE SLIM LINE ARRAY
- CLASS LEADING 12" SUBWOOFER
- HIGH EFFICIENCY 1100W CLASS-D AMP
- 1-KNOB CONTROLS FOR EQ AND OUTPUT PROCESSING
- STAGEPAS CONTROLLER APP FOR FULL DSP PARAMETER CONTROL
- WIRELESS AUDIO VIA BLUETOOTH
- FITTED COVER INCLUDED, OPTIONAL DOLLYBOARD

OUICK SPECIFICATIONS

	STAGEPAS 1K MK2
MIXING CHANNELS	5 (3 mono + 1 stereo)
MAX. OUTPUT POWER	1100 W
MAX. SPL	125 dB SPL
FREQUENCY RESPONSE	37 – 20 kHz
EQUALIZER	1-knob EQ, 4-band PEQ via Controller App
SPEAKER UNITS	HF: 1.5" (3.8 cm) Cone x 10, LF: 12" (30 cm) Cone
EFFECTS AND PROCESSING	SPX digital reverb (4 program, parameter control), Priority ducker
OUTPUT PROCESSOR	MODE (SPEECH, MUSIC, CLUB), 1-knob
BLUETOOTH INPUTS	Bluetooth Ver.5.0, A2DP (SBC, AAC)
NOMINAL COVERAGE	H170° x V30°
OPTIONAL ACCESSORIES	DL-SP1K (Dedicated dolly), FC5 (foot switch for reverb ON/OFF)
DIMENSIONS	System: 334 x 2000 x 418 mm (max.), 23 kg





STAGEPAS CONTROLLER APP



DEDICATED COVER WITH STORAGE FOR HF UNIT (INCLUDED)



SIMPLE SETUP

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EMX SERIES

POWERED MIXERS

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EMX7







RK-EMX7 RACK MOUNT KIT (OPTION)

EMX5 MASTER EQ

INTEGRATED SOLUTIONS FOR SUPERIOR LIVE SOUND

Experienced musicians, performers, speakers, and club operators know the importance of a high-quality sound system with the right features and performance to deliver their sound. Where portability and convenience are important criteria, a system based on a high-performance Yamaha EMX SERIES powered mixer is definitely the way to go.

In one integrated, portable unit you have a mixer to combine and balance your microphone and instrument and line sources, effects to refine and polish your sound, and power to drive the main speakers and even monitor speakers as well. But that's nowhere near the whole story - Yamaha EMX SERIES Powered Mixers offer a range of features that let you mix, process, and deliver your sound with maximum quality and creative control...and, of course, that unrivalled Yamaha sound.

KEY FEATURES

- 1-KNOB COMPRESSORS
- SPX DIGITAL EFFECTS PROCESSORS
- RACKMOUNT OPTIONS
- EMX5: 12 INPUTS, UP TO 8 MICROPHONES, 2 X 500W
- EMX7: 12 INPUTS, UP TO 8 MICROPHONES, 2 X 600W, GRAPHIC EQUALIZER

QUICK SPECIFICATIONS

	EMX5	EMX7
MIXING CHANNELS	12 (8 Mono/4 Stereo)	12 (8 Mono/4 Stereo)
BUS/AUX OUTPUTS	Stereo / 2 (1FX)	Stereo / 2 (1FX)
OUTPUT POWER (1 KHZ/8 OHMS)	2 x 500 W	2 x 600 W
EFFECTS	24 SPX Effects	24 SPX Effects
EQUALIZER	1-knob Master-EQ, Monitor-EQ	Flex9-GEQ
FEEDBACK SUPPRESSOR	yes	yes
SPEAKER PRESETS	no	yes
1-KNOB COMPRESSORS	CH1-4	CH1-4
RACKMOUNT OPTION	RKEMX7	RKEMX7
DIMESNIONS (W/H/D)	465 x 308 x 325 mm	465 x 308 x 325 mm





EMX5 REAR CONNECTORS



SPEAKER PRESETS EMX7



SOFTWARE

APPLICATIONS FOR YAMAHA PORTABLE PA SYSTEMS

Equipped with a Bluetooth input for wireless audio streaming from smartphones or tablets, the STAGEPAS models let you seamlessly play backing tracks for gigs, or set the tone of parties, conferences, or events with the audio playback of your choice.

In addition to a Bluetooth input for wireless audio streaming, STAGEPAS Controller is a dedicated software application that remotely controls STAGEPAS 1Kmk2 and 200/200BTR parameters using your Android™ or iOS device. With STAGEPAS Controller, you can control mixing parameters directly from the stage or from the audience. Because you can adjust while listening to the actual mix, it is easy to balance levels and improve sound quality, while setup time is shortened by eliminating back-and-forth trips to the equipment, leaving more time for rehearsing or relaxing before the show.

The scene recall feature allows you to save your settings and easily call them up for your next performance.





STAGEPAS CONTROLLER

KNOB VIEW





FADER VIEW

DIORITY DUCKER

STAGEPAS CONTROLLER

- STAGEPAS DEDICATED REMOTE CONTROL APP
- AVAILABLE FREE FOR IOS/ANDROID DEVICES
- FULL MIXING PARAMETERS ACCESS
- SAVE UP TO 8 SCENE PRESETS
- REMOTE CONNECTION VIA BLUETOOTH

BLUETOOTH CONNECTIVITY

- WIRELESS AUDIO TRANSMISSION FOR MOBILE DEVICES
- HIGH QUALITY AUDIO VIA A2DP STANDARD
- AVAILABLE FOR ALL CURRENT STAGEPAS MODELS
- UP TO 15M RANGE





LIVE MUSIC APPLICATION

BLUETOOTH AUDIO (BGM)

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PEQ DETAILS



FX PARAMETER CONTROL





DJ APPLICATION



SPECIFICATIONS POWERED MIXERS & PORTABLE PA SYSTEMS

			EMX SERIES				
	SUB PROPERTY	PROPERTY	EMX5	EMX7			
	SYSTEM TYPE		Box-type po	owered mixer			
MIXER	FREQUENCY RESPONSE (INPUT -> AMPLIFIER OUT)		40 Hz to 20	kHz (+1/-3 dB)			
	INPUT CHANNELS	MONO (MIC/LINE)		8			
		MONO/STEREO	-	-			
		STEREO (LINE)		4			
	OUTPUT CHANNELS	STEREO OUT		1			
		MONITOR OUT (L,R)		-			
		PHONES		1			
		AUX SEND		2			
		GROUP OUT	REC C	out (L, R)			
	BUS		Stereo: 1, Al	JX: 2 (incl. FX)			
	INPUT CHANNEL FUNCTION	PAD (MONO)	MIC	/LINE			
		HPF (MONO, MONO/STEREO)	80	DHz			
		COMP (MONO)	1-knol	o COMP			
	EFFECTS PROCESSING	EQ	3-band CH EQ	3-band CH EQ			
			24x SPX, Feedback suppressor, Master-EQ, Monitor-EQ	24x SPX, Feedback suppressor, Graphic EQ, Speaker processor			
	USB AUDIO/RECORDING, WIR			-			
	EXTERNAL CONTROLS		Footswitch:	Effects on/off			
	PHANTOM POWER VOLTAGE		+	48V			
POWER AMPLIFIER	OUTPUT POWER (PEAK)		2x 630 W (4 Ω)	2 x 710 W (4 Ω)			
			2x 460 W (8 Ω)	2x 500 W (8 Ω)			
	TOTAL HARMONIC DISTORTION	l	less than 0.1%	less than 0.1%			
SPEAKER	FREQUENCY RANGE (-10DB)			-			
	MAX. SPL			-			
	SPEAKER SIZE			-			
GENERAL	POWER REQUIREMENTS		100-240 V, 50/60 Hz	100-240 V, 50/60 Hz			
	POWER CONSUMPTION		45 W (Idle), 210 W (1/8 power)	45 W (Idle), 250 W (1/8 power)			
	DIMENSIONS (W X H X D)		465 x 308	3 x 325 mm			
	BATTERY			-			
	NET WEIGHT		9.5 kg (20.9 lbs.)				
	INCLUDED ACCESSORY		Owner's Manual, Technical Spe	cifications, AC power cord (2.5 m)			
	OPTIONAL ACCESSORY			otswitch, ackets RK-EMX7			
	OPERATING TEMPERATURE		0 to +40°				

				STAGEPAS SERIES		
STAGEPAS	100/100BTR	STAGEPAS 2	00/200BTR	STAGEPAS 400BT	STAGEPAS 600BT	STAGEPAS1K MK2
Box-type a	all in one PA	Box-type a	l in one PA	Powered mixer with 2 pas- sive speakers	Powered mixer with 2 pas- sive speakers	Column-type all in one F
	-	-			-	
	2	3	}	4	4	3
	-	2	2	-	-	2
	1	1		2	3	1
	-	-		1	1	-
	1	1			1	
	1	1			1	1
	-	LINK	Out	SUBWOOFER O	ut with Auto-HPF	LINK Out
	-	-			-	
	NO: 1	-			-	
MIC	/LINE	MIC/LIN	NE, Hi-Z		MIC/LINE	
	-				-	-
	-	-		-	-	-
2-band M	Vaster EQ	1-knob EQ, 4- App), 1-knob I		2-band, 1-knob Master-EQ	3-band CH, 1-knob Master-EQ	1-knob EQ, 4-band PEQ App), 1-knob MODE cont
Master EQ,	Master EQ, FIR-X Tuning		erb effects, dback sup- ssor	4x SPX Digital reverb	4x SPX Digital reverb, Feedback suppressor	
Bluetoo	oth A2DP		(SBC, AAC) Bluetooth Ver. 4.1, A2DP, max range appr. 10m		Bluetooth Ver. 4.1, A2DP, max range appr. 10m	
	-	STAGEPASC	ontroller App	Reverb F	ootswitch	STAGEPASController Ap Reverb Footswitch
	-	+48V	CH1-3	+30 V (CH1, CH2)	+30 V (CH1, CH2)	-
10	0 W	160	W	2 x 200 W	2 x 340 W	1100 W Class-D amp
	-					
	-				-	
	- 20 kHz	55 Hz -	-	55 Hz - 20 kHz	55 Hz - 20 kHz	37 Hz - 20 kHz
120 d	B SPL		125 d	B SPL 129 dB SPL		125 dB SPL
6.5" cone, 1.4	4" v.c., coaxial	8" cone, 1.4"	v.c., coaxial	LF: 10" cone, HF: 1.4" v. c. driver	LF: 8" cone, HF: 1" v. c. driver	Subwoofer: 12" bass-ref HF-Unit: 10x 1.5"
		Depending	on area of purc	hase: 100V 50/60Hz, 110-120	/ 60Hz, 220-240V 50/60Hz	
10 W (Idle), 3	0W (1/8 power)	39 W (1/	8 power)	30 W (Idle), 70W (1/8 power)	35 W (Idle), 100W (1/8 power)	25 W (Idle), 91 W (1/8 power)
239 x 310) x 215 mm	300 x 300	x 307 mm	Speaker: 289 x 472 x 275 mm, Mixer: 308 x 180 x 116 mm	mm, Mixer: 308 x 180 x mm, Mixer: 348 x 197 x	
-	Lithium-lon, 2.5 hrs charging time, 6 hrs perfor- mance time	-	Lithium-lon, 4 hrs charg- ing time, 10 hrs performance time	-	-	-
5.2 kg	5.5 kg	12 kg	12.5 kg	18.3 kg (39.7 lbs.) (2x Speaker 7.7 kg + Mixer 2.9 kg)	25.6 kg (57.3 lbs.) (2x Speaker 10.9 kg + Mixer 3.8 kg)	23 kg (Line array 1.8 kg Spacer 0.6 kg + Subwoo 20 kg)
Power	adaptor		eet, power Ion battery R)	Cover panel, power cord (2m), 2x speaker cables (6m), 12x non-skid pads	Cover panel, power cord (2m), 2x speaker cables (6m), 12x non-skid pads	Power cord (2m), fitted Cover
Carrying bag	g BAG-STP100	Trolley case C battery pack			aptor), FC5 (foot switch)	DL-SP1K (Dedicated dol FC5 (foot switch)
				0 to +40°		

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POWER AMPLIFIERS

YAMAHA POWER AMPLIFIERS ARE DESIGNED WITH AUDIO QUALITY, EFFICIENCY AND **RELIABILITY ALWAYS IN MIND.** As the professional sound industry has developed with digital signal processing, networking and other advanced technologies, the Yamaha amplifier lineup has been continually refined and enhanced, ensuring there is a model to meet every commercial need. Whether it's straightforward distribution of audio for a small restaurant or large, multi-channel, networked systems with advanced DSP and remote control for a multi-space hotel, shopping mall or educational resource, Yamaha power amplifiers all feature premium components and a wide range of options.

These include up to eight channels per amplifier, high and low impedance, networking with Dante and Yamaha's proprietary YDIF format, software editing/control and more.

As an invisible yet essential part of the signal chain, amplifiers are frequently installed in rack rooms and other spaces on a 'set and forget' basis, often powered up for 24 hours a day, seven days a week, so it's vital that they operate reliably. Yamaha's power amplifier range is of course designed for maximum, long-term reliability, but the drive for efficiency and reduced energy usage means some models also have excellent 'green' credentials, with the ability to be automatically and/or remotely powered down when not in use, saving both money and the planet's resources.







BACKGROUND MUSIC

CONFERENCE

XMV SERIES

NETWORKED MULTICHANNEL POWER AMPLIFIERS





PAGING

DETAILS





XMV4280-D INSIDE



XMV SERIES - 8 CHANNEL VERSIONS

MULTI-CHANNEL POWER AMPLIFIERS WITH FEATURES DESIGNED SPECIFICALLY TO BENEFIT INSTALLATION SOUND SYSTEMS.

Four-channel or eight-channel power amp that can operate in both high-impedance (70 V/100 V line) or low-impedance (4 Ω / 8Ω) modes simultaneously. 70 V or 100 V mode can be assigned to every pair of channels without affecting the number of available output channels. The newly developed Double Power Mode function effectively doubles the output power of selected channels. Equipped with either YDIF digital audio format or Audinate's digital audio network Dante for simple and fast system configuration.

Easy setting such as the mute on/off or attenuator changes with MTX Editor when used in system with MTX Series. An innovative, new, patent pending circuit improves the already highly efficient Class D circuit topology, bringing the efficiency level of the amplifier's output stage up to over 90%. Feature a Power Factor Correction equipped switching power supply, ensuring harmonic control and decreasing the amount of current draw while maintaining the same output power. Powerful, intelligent protection features for more reliable operation.

KEY FEATURES

- YDIF OR DANTE AUDIO I/O VERSIONS
- 4 AND 8 CHANNEL MODELS
- LOW / HIGH IMPEDANCE & BRIDGED OUTPUT SWITCHABLE
- CONTROL AND MONITORING VIA PROVISIONAIRE SOFTWARE
- BACKUP AND OVERRIDE MODE

QUICK SPECIFICATIONS

	XMV4140	XMV4280	XMV8140	XMV8280	XMV4140-D	XMV4280-D	XMV8140-D	XMV8280-D
AMPLIFIER CLASS	class D							
CHANNELS	4	4	8	8	4	4	8	8
OUTPUT POWER (2 Ω)	-	-	-	-	-	-	-	-
OUTPUT POWER (4 Ω)	140 W	280 W	140 W	280 W	140 W	280 W	140 W	280 W
OUTPUT POWER (8 Ω)	140 W	280 W	140 W	280 W	140 W	280 W	140 W	280 W
OUTPUT POWER (4 Ω, BRIDGED)	280 W	560 W	280 W	560 W	280 W	560 W	280 W	560 W
OUTPUT POWER (8 Ω, BRIDGED)	280 W	560 W	280 W	560 W	280 W	560 W	280 W	560 W
OUTPUT POWER (100 V)	125 W	250 W	125 W	250 W	125 W	250 W	125 W	250 W
SIGNAL PROCESSING				48 kH	z/32 bit			
INPUTS & OUTPUTS	4 analog, YD	IF IN/OUT	8 analog, Y	DIF IN/OUT	4 analog, Dante Primary/ Secondary		8 analog, Dante Primary/ Secondary	
CONTROL				Etherne	t, remote			



XMV4140 REAR PANEL



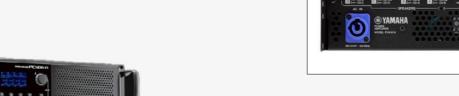
XMV8280-D REAR PANEL



PC-D/DI SERIES

NETWORKED MULTICHANNEL POWER AMPLIFIERS

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DETAILS



PC412-D REAR PANEL



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PC412-DI REAR PANEL
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HIGH PERFORMANCE NETWORKED POWER AMPLIFIERS

The **PC-D** / **DI SERIES** are so much more than just amplifiers—they are the first power amps ever to be capable of forming the core of a completely connected audio network for multi-zone installed or live sound applications. The ever-changing demands and rapid advances of amplifier technology and sound reinforcement in general require both versatility and power, and this series has plenty of both. Now you can leverage the power and flexibility of the most comprehensive matrix processing to be found on a power amplifier, all enhanced by the simplicity and ease of Dante connectivity, to create a fully integrated, effective sound solution. What's more, full compatibility with ProVisionaire series gives you complete control over the entire network chain, from mixers through to amplifiers, processors, and speakers. In short, the PC-D / DI series gives you what every sound engineer has always dreamed of—total control.

KEY FEATURES

- POWERFUL DSP MATRIX FUNCTIONALITY
- DANTE I/O
- FOUR CHANNELS WITH UP TO 2500W POWER
- **TOURING AND INSTALLATION VERSIONS**
- INSTALLATION VERSION WITH UP TO 1200W AT 100V
- CONTROL AND MONITORING VIA PROVISIONAIRE SOFTWARE

QUICK SPECIFICATIONS

	PC406-D	PC406-DI	PC412-D	PC412-DI			
AMPLIFIER CLASS	class D						
CHANNELS		2	1				
OUTPUT POWER (2 Ω)	1300 W	1300 W	2500 W	2500 W			
OUTPUT POWER (4 Ω)	900 W	900 W	1900 W	1900 W			
OUTPUT POWER (8 Ω)	600 W	600 W	1200 W	1200 W			
OUTPUT POWER (4 Ω, BRIDGED)	2600 W	2600 W	5000 W	5000 W			
OUTPUT POWER (8 Ω, BRIDGED)	1800 W	1800 W	3800 W	3800 W			
OUTPUT POWER (100 V)	-	600 W	-	1200 W			
SIGNAL PROCESSING		96 kHz/24 bit, Matrix-Mixer,	EQ, Delay, Peak/RMS Limiter				
INPUTS & OUTPUTS		4 analog, 16 INPUT & OUTP	UT with Dante Redundancy				
CONTROL		Etherne	et, GPIO				



PROVISIONAIRE AMP EDITOR



PC412-DI FRONT PANEL



PX SERIES

TWO CHANNEL POWER AMPLIGFIERS



DETAILS



PX10 REAR PANEL





USB DRIVE

FRONT PANEL

INTELLIGENT PROCESSING. SERIOUS POWER.

Since the 1976 release of the P2200, our first professional power amplifier, Yamaha has strived to achieve the highest possible levels of sound quality, power output, and reliability in sound reinforcement, studio, and installed applications. The new PX SERIES power amplifiers continue this tradition of excellence, utilizing Yamaha's renowned digital signal processing technology and unparalleled professional audio expertise to achieve a light, durable design, capable of delivering maximum output power to the speakers while simultaneously protecting them with optimized processing. Driven by a newly-developed Class-D amplifier the four new models that make up the PX SERIES are suitable for a broad range of sound reinforcement and installation environments.

QUICK SPECIFICATIONS

	PX3	PX5	PX8	PX10
AMPLIFIER CLASS		clas	ss D	
CHANNELS	2	2	2	2
OUTPUT POWER (2 Ω)	300 W	500 W	600 W	700 W
OUTPUT POWER (4 Ω)	500 W	800 W	1050 W	1200 W
OUTPUT POWER (8 Ω)	300 W	500 W	800 W	1000 W
OUTPUT POWER (4 Ω, BRIDGED)	1000 W	1400 W	-	-
OUTPUT POWER (8 Ω, BRIDGED)	600 W	800 W	-	-
OUTPUT POWER (100 V)	-	-	-	-
SIGNAL PROCESSING		D-CONTOUR, Delay, F	PEQ, HPF/LPF, Limiter	
INPUTS	2 analog	2 analog	2 analog	2 analog

KEY FEATURES

- TWO CHANNEL POWER AMPS WITH A WIDE RANGE OF POWER CAPABILITIES
- SPEAKON, JACK AND BINDING POST POWER OUTPUTS
- XLR AND JACK SIGNAL INPUTS
- INTEGRATED DSP WITH FLEXIBLE DELAY, LIMITER, X-OVER AND PEQS
- LCD USER INTERFACE
- USB DATA BACKUP

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FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 96

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MA/PA SERIES

INSTALLATION POWER AMPLIFIERS







SMART AND SIMPLE MIXING AND POWER AMPLIFIERS

With quick, easy setup and intuitive operation, the compact MA/PA SERIES power amplifiers make it easier than ever to bring your commercial space to life. The MA2030a and PA2030a are ideal audio solutions for retail stores, eateries, classrooms or public facilities like hospitals. The MA2120 and PA2120 meet the demands of a wide range of applications requiring higher power as well as more flexible DSP functionality and zone control. All models combine approachable, unobtrusive design with efficient, flexible performance. The MA2030a and MA2120 offer mixing capability with source EQ (Bass/Treble) control, as well as some of the same state-of-the-art DSP technol-ogies that are acclaimed features of professional Yamaha audio gear. Whether providing background music for a café or restaurant or powering a conference room or other application requiring microphone input, the MA/PA series amplifiers are simple yet powerful tools that can help establish an ideal commercial sound environment.

KEY FEATURES

- SIMPLE. USER-FRIENDLY INTERFACE
- STEREO AND MICROPHONE INPUTS (MA2120, MA2030A)
- INTEGRATED DSP FOR MICROPHONE AND SPEAKER OPTIMIZATION
- REMOTE CONTROL WITH DCP WALL MOUNT PANELS
- TWO INDEPENDANT ZONES (MA2120)
- LOW IMPEDANCE AND HIGH IMPEDANCE OPERATION

DETAILS







QUICK SPECIFICATIONS

	MA2030A	PA2030A	MA2120	PA2120
AMPLIFIER CLASS		cla	ss D	
CHANNELS			2	
OUTPUT POWER (2 Ω)			-	
OUTPUT POWER (4 Ω)	30 W	30 W	120 W	120 W
OUTPUT POWER (8 Ω)	30 W	30 W	100 W	100 W
OUTPUT POWER (4 Ω, BRIDGED)			-	
OUTPUT POWER (8 Ω, BRIDGED)			-	
OUTPUT POWER (100 V)	60 W (1ch)	60 W (1ch)	120 W (2ch) or 200 W (1ch)	120 W (2ch) or 200 W (1ch)
SIGNAL PROCESSING	FBS, Ducker, Leveler, Bass/Treble, Speaker EQ, HPF	Speaker EQ, HPF, LPF	FBS, Ducker, Leveler, Comp, Reverb, Echo, Bass/Treble, Speaker EQ, HPF, LPF	Speaker EQ, HPF, LPF
INPUTS	2 Mic (balanced), 3 stereo line (unbalanced)	2 analog (line level)	2 analog (line level)	2 analog (line level)
OUTPUTS	2 analog (line level)	-	2 analog (line level)	2 analog (line level)
CONTROL	1 DCP1V4S	-	2 DCPs	2 DCPs

(OPTION)



SOFTWARE FOR POWER AMPLIFIERS





PROVISIONAIRE DESIGN



PROVISIONAIRE TOUCH

PROVISIONAIRE DESIGN

PROVISIONAIRE DESIGN is a software application for Windows operating systems that allows comprehensive, intuitive design of sound systems that use compatible Yamaha products. Compatible with a wide range of Yamaha products including the DME7/MRX7-D*/MTX processors, XMV/PCD amplifiers, Rio/Tio interfaces, VXL-P speakers, ADECIA solutions, and more. ProVisionaire Design facilitates sound system design and setup by allowing flexible component layout, signal routing, and parameter editing in open-architecture processors such as the DME7 and MRX7-D. It also provides a comprehensive overview of components and signal routing in MTX series fixed-architecture processors. A wide range of high-quality audio components that only a leader in the field of professional sound reproduction can provided include Rev-X for refined reverb, and the Dugan Auto Mixer for flawless automated mixing. ProVisionaire Design can be used in conjunction with the ProVisionaire Control computer applications for comprehensive control of any project, from system design and setup to everyday operation and management.

PROVISIONAIRE CONTROL AND PROVISIONAIRE TOUCH

PROVISIONAIRE CONTROL and **PROVISIONAIRE TOUCH** are software applications that provide unified remote control and monitoring of the entire systems. ProVisionaire Control supports Windows devices, and ProVisionaire Touch supports the iPad. A broad range of devices are supported, including MTX/MRX processors, CL/QL/TF digital mixers, Rio I/O units, XMV power amplifiers, and NEXO NXAMPMK2 powered TD controllers. Custom control panels can be created by assigning necessary parameters to a single display page. ProVisionaire Control includes the ProVisionaire Monitoring Service, making it easy to monitor the status of system devices while alerts and other log data can be recorded to a computer.

KEY FEATURES

- FULL SYSTEM CONFIGURATION WITH PC-D SERIES AND XMV-SERIES (PROVISIONAIRE DESIGN)
- CUSTOMIZED USER CONTROL PANELS FOR WINDOWS AND IOS (PROVISIONAIRE CONTROL/TOUCH)

* MRX7-D support scheduled for fall of 2023.

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OUICK SPECIFICATIONS

	PROVISIONAIRE DESIGN	PROVISIONAIRE CONTROL	PROVISIONAIRE TOUCH
OPERATING SYSTEM	Windows 10/11	Windows 10/11	iPad OS 11.0 or later
SYSTEM REQUIREMENTS	Intel Core i or better, 4GB or more, 300MB or more free	Intel Atom or better, 2GB or more, 300MB or more free	iPad with 74,5MB free space
MAX NUMBER OF CLIENTS	8	8	8

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PROVISIONAIRE CLOUD



PROVISIONAIRE CONTROL



SPECIFICATIONS MULTICHANNEL NETWORKED POWER AMPLIFIERS

					XMV S				
		XMV4140	XMV4280	XMV4140-D	XMV4280-D	XMV8140	XMV8280	XMV8140-D	XMV8280-E
					Clas	s D			
		4	4	4	4	8	8	8	8
BURST	2 OHM	-	-	-	-	-	-	-	-
(1KHZ, 20MS)	4 OHM	140 W	280 W	140 W	280 W	140 W	280 W	140 W	280 W
	8 OHM	140 W	280 W	140 W	280 W	140 W	280 W	140 W	280 W
	4 OHM (BRIDGED)	280 W	560 W	280 W	560 W	280 W	560 W	280 W	560 W
	8 OHM (BRIDGED)	280 W	560 W	280 W	560 W	280 W	560 W	280 W	560 W
CONTINU-	2 OHM	-	-	-	-	-	-	-	-
OUS		17.5 W	35 W	17.5 W	35 W	17.5 W	35 W	17.5 W	35 W
									35 W
201012/									70 W
									70 W
					-				-
PEDANCE									250 W
	70V								250 W
		28.7 dB	31.7 dB	28.7 dB			31.7 dB	28.7 dB	31.7 dB
70V					35.2	2 dB			
					+4 (dBu			
/EL					+24	dBu			
BALANCED					20	kΩ			
UNBALANCED)				10	kΩ			
1KHZ, HALF POWER					≤ 0	.2%			
1W, 80HM					0 dB, ±1.0 dB	20 Hz-20 kHz)			
1W. 100V/70V					0 dB, ±1.0 dB	(55 Hz-20 kHz)			
					-				
CV .									
				0.4			1		
							-		
ANALOG INPUT TO [SPEAKERS] OUTPUT							g		
DIGITAL INPU	T TO [SPEAKERS] OUTPUT								=44.1 kHz), ⁻ s=48 kHz)
					clip lii	niting			
LOAD	POWER SWITCH ON/OFF	F Output mute							
						-			
	PROTECTION								
AMPLIFIER	THERMAL			Output Mute (I	neatsink temp.	≥ 90°C) (returr	n automatically)	
	OVER CURRENT			Οι	Itput Mute (retu	urn automatica	lly)		
	OVER VOLTAGE								
				01	itput Mute (reti	irn automatica	v)		
POWER									
SUPPLY				. oner su			2.00 0/		
				0			- 11- 3		
	INTEGRATED POWER								
11110010				3 si	-		IIOW		
								-	
DIGITAL I/O		RJ45 x 2 ([YI	DIF] IN/OUT)			RJ45 x 2 ([YI	DIF] IN/OUT)		ante [PRIMA ONDARY])
					Barrier	strip /ch			
SPEAKER OUTPUT									
SPEAKER OUTPUT NETWORK		R I4	5 x 1	Shared with	Dante ports	R 14	5 x 1	Shared with	Dante porte
OUTPUT	275	RJ4	5 x 1		Dante ports			Shared with	Dante ports
OUTPUT NETWORK CONTROL POI	राऽ	RJ4	5 x 1		te, Fault Outpu	t : Euroblock (Shared with	Dante ports
OUTPUT	राऽ			Remo	te, Fault Outpu AC In	t : Euroblock (let x 1	3P) x 1		
OUTPUT NETWORK CONTROL POI	राड				te, Fault Outpu AC In α20	t : Euroblock (let x 1 fun			
OUTPUT NETWORK CONTROL POI OTHERS	RTS			Remo	rte, Fault Outpu AC In 20 2-segm	t : Euroblock (; let x 1 fun ent LED	3P) x 1		
OUTPUT NETWORK CONTROL POI OTHERS	राड			Remo	AC In AC In 2-segm 0°C to	t : Euroblock (let x 1 fun ent LED +40°C	3P) x 1		
OUTPUT NETWORK CONTROL POI OTHERS	RTS			Remo chennel LED > 100	te, Fault Outpu AC In 20 2-segm 0°C to V, 120 V, 230 V-	t : Euroblock (let x 1 fun ent LED +40°C	3P) x 1	chennel LED x	: 40
OUTPUT NETWORK CONTROL POI OTHERS				Remo	AC In AC In 2-segm 0°C to	t : Euroblock (let x 1 fun ent LED +40°C	3P) x 1		
OUTPUT NETWORK CONTROL POI OTHERS		fur	ction LED x 5, 250 W (4 Ω)	Remo chennel LED > 100	te, Fault Outpu AC In 20 2-segm 0°C to V, 120 V, 230 V-	t : Euroblock (let x 1 fun ent LED +40°C -240 V 50 Hz/6	3P) x 1 Inction LED x 5, 60 Hz 450 W (4 Ω)	chennel LED x	: 40
OUTPUT NETWORK CONTROL POI OTHERS		fur	ction LED x 5, 250 W (4 Ω) 37	Remo chennel LED > 100 150 W (4 Ω)	te, Fault Outpu AC In 20 2-segm 0°C to V, 120 V, 230 V-	t : Euroblock (let x 1 fun ent LED +40°C -240 V 50 Hz/6	3P) x 1 action LED x 5, 30 Hz 450 W (4 Ω) 73	chennel LED x 250 W (4 Ω)	: 40
OUTPUT NETWORK CONTROL POI OTHERS		fur	ction LED x 5, 250 W (4 Ω) 37	Remo chennel LED > 100 150 W (4 Ω) W 5 W	te, Fault Outpu AC In 20 2-segm 0°C to V, 120 V, 230 V-	t : Euroblock (let x 1 fun ent LED +40°C 240 V 50 Hz/6 250 W (4 Ω)	3P) x 1 action LED x 5, 30 Hz 450 W (4 Ω) 73 23	chennel LED x 250 W (4 Ω) W	: 40
OUTPUT NETWORK CONTROL POI OTHERS ATURE ITS 1/8 POWER (PI IDLE STAND BY		fur	ction LED x 5, 250 W (4 Ω) 37 18.	Remo chennel LED > 100 150 W (4 Ω) W 5 W	tte, Fault Outpu AC In 20 2-segm 0°C to V, 120 V, 230 V- 250 W (4 Ω)	t : Euroblock (let x 1 fun ent LED +40°C 240 V 50 Hz/6 250 W (4 Ω)	3P) x 1 inction LED x 5, 50 Hz 450 W (4 Q) 73 23 inches)	chennel LED x 250 W (4 Ω) W	: 40
	(IKHZ, 20MS) CONTINU- OUS (20HZ- 20KHZ) HIGH IM- PEDANCE 8 OHM 100V 70V 7EL BALANCED UNBALANCED UNBALANCED UNBALANCED IKHZ, HALF PC 1KHZ, HA	(IKHZ, 20MS) 4 OHM 8 OHM 4 OHM (BRIDGED) 8 OHM (BRIDGED) 8 OHM (BRIDGED) 20KHZ) 4 OHM 20KHZ) 8 OHM 20KHZ) 8 OHM 20KHZ) 8 OHM 100V 70V 8 OHM 100V 10V 70V 8 OHM 100V 10V 70V 8 OHM 10V 10V 70V 8 OHM 10V 10V/70V A-WEIGHTED 0 E 0 POWER SWITCH ON/OFF DC-FAULT OUTPUT VOLTAGE	BURST (IKHZ, 20MS) 2 OHM - 4 OHM 140 W 8 OHM 140 W 8 OHM 140 W 8 OHM (BRIDGED) 280 W 8 OHM (BRIDGED) 280 W CONTINU- OUS (20HZ- 20KHZ) 2 OHM - 4 OHM (BRIDGED) 35 W 8 OHM 17.5 W 4 OHM (BRIDGED) 35 W 8 OHM 125 W 8 OHM 28.7 dB 100V 125 W 70V 125 W 8 OHM 28.7 dB 100V 70V 70V 125 W 8 OHM 28.7 dB 100V 70V 70V 28.7 dB 100V 70V 70V 28.7 dB 100V 70V 70V 28.7 dB 100V 70V 8 OHM 1.17 ms (fs: 1.08 ms (Fs: 1.08 ms (Fs: 1.08 ms (Fs: 1.08	BURST (IKHZ, 20MS) 2 OHM - - 4 OHM 140 W 280 W 8 OHM 140 W 280 W 8 OHM 140 W 280 W 9 OHM (BRIDGED) 280 W 560 W 8 OHM (BRIDGED) 280 W 560 W 20KHZ) 2 OHM - - 4 OHM (BRIDGED) 280 W 560 W 8 OHM 17.5 W 35 W 20KHZ) 8 OHM (BRIDGED) 35 W 70 W 8 OHM 17.5 W 250 W 8 OH 9 OV 125 W 250 W 9 OV 9 OV 125 W 250 W 9 OV 9 OV 125 W 250 W 9 OV 100V 70V 125 W 250 W 100V 70 V 125 W 250 W 9 OHM 28.7 dB 31.7 dB 100V 70 V 28.7 dB 31.7 dB 100V 70 V 28.7 dB 31.7 dB 100V 70 V 28.7 dB	BURST (IKHZ, 20MS) 2 OHM - - - 4 0HM 140 W 280 W 140 W 280 W 140 W 8 0HM 140 W 280 W 560 W 280 W 140 W 2 0HM - - - - - 2 0HM - - - - - - 2 0HM - <td>Image: Construction of the construction of</td> <td>A A</td> <td>A A A A A B B BURST (IKH2, 20MS) 2 OHM -</td> <td>Class D Class D BURST (IKH2, 20M8) 2 OHM -</td>	Image: Construction of the construction of	A A	A A A A A B B BURST (IKH2, 20MS) 2 OHM -	Class D Class D BURST (IKH2, 20M8) 2 OHM -

PC406-D	PC406-DI	PC412-D	PC412-DI	
		e ended output		
		4		
1300W	1300 W	2500 W	2500 W	
900W	900 W	1900 W	1900 W	
600W	600 W	1200 W	1200 W	
2600W	2600 W	5000 W	5000 W	
1800W	1800 W	3800 W	3800 W	
162 W	162 W	312 W	312 W	
112 W	112 W	237 W	237 W	
75 W	75 W	150 W	150 W	
325 W	325 W	625 W	625 W	
225 W	225 W	475 W	475 W	
-	600 W	-	1200 W	
-	600 W	-	1200 W	
35.0 dB	35.0 dB	38.0 dB	38.0 dB	
-	38.2 dB	-	38.2 dB	
-	35.2 dB	-	35.2 dB	
	+4.0 dBu	, +14.0 dBu		
+25 dBu	+28 dBu	+28 dBu	+28 dBu	
	20) kΩ		
		-		
	5	0.1%		
	+0.5 dB, -1.5 d	B (20 Hz-20kHz)		
-	+0.5 dB, -1.5 dB (20 Hz-20 kHz)	-	+0.5 dB, -1.5 dB (20 Hz-20 kHz)	
109 dB	109 dB	112 dB	112 dB	
	≤ -(60 dB		
	96	kHz		
	AD: 24 bit linear, 64 times over sampling	; DA: 24 bit linear, 128 times over sampling		
20 x 8 input matrix mixer. Room EO: 16 h		er Processor: X-Over (IIR/FIR*), PEQ (16 band II	R/FIR*) Delay Peak Limiter RMS Limit	
		; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz))	
	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz))	
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XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY])	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outp Power sup Over voltage limiter, user configur Output limiter (Restored automatically) Output limiter (Restored automatically) Power sup Power sup Output limiter (Restored automatically) Power sup Output limiter (Restored automatically) Power sup Output limiter (Restored automatically) Power sup Power sup Output limiter (Restored automatically) Power sup Power sup	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) INDEX MALE STATES STAT	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY])	
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XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY])	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outp Power sup Over voltage limiter, user configur Output limiter (Restored automatically) Output limiter (Restored automatically) Power sup Power sup Power sup Output limiter (Restored automatically) RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY]) 7.62mm Euro block 8 pin x 1 RJ4 Euro block 8 pin (mini) x 2	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute bly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown bly shutdown itored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 15 x 1 2(GPI x 4, GPO x 6, +5 V x 2)	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY])	
XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY])	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outp Power sup Over voltage limiter, user configur Output limiter (Restored automatically) Output limiter (Restored automatically) Power sup Power sup Power sup Power sup Output limiter (Restored automatically) Power sup Power sup Power sup Power sup Output limiter (Restored automatically) Power sup Power sup Power sup Power sup Output limiter (Restored automatically) Power sup Power sup P	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute bly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown bly shutdown itored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 15 x 1 2(GPI x 4, GPO x 6, +5 V x 2)	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY])	
XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY])	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outp Power sup Over voltage limiter, user configur Output limiter (Restored automatically) Output limiter (Restored automatically) Power sup Power sup Power sup Power sup Output limiter (Restored automatically) Power sup Power sup Power sup Output limiter (Restored automatically) Power sup Power sup Powe	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) INTERPENDENDENDENDENDENDENDENDENDENDENDENDENDE	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY])	
XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY])	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outpu Power supj Over voltage limiter, user configur Output limiter (Restored automatically) Output limiter (Restored automatically) Power supj Power supj Power supj Output limiter (Restored automatically) Power supj Output limiter (Restored automatically) Power supj Output limiter (Restored automatically) Power supj Power supj Output limiter (Restored automatically) Power supj Power supj Po	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute bly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown bly shutdown bly shutdown bly shutdown itored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 15 x 1 R(GPI x 4, GPO x 6, +5 V x 2) erCON 20A) x 1 - ess adjustment, Auto display off feature	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY])	
XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY])	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outpu Power supj Over voltage limiter, user configur Output limiter (Restored automatically) Output limiter (Restored automatically) Power supj Power supj Power supj Output limiter (Restored automatically) Power supj Output limiter (Restored automatically) Power supj Output limiter (Restored automatically) Power supj Power supj Output limiter (Restored automatically) Power supj Power supj Po	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute bly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown bly shutdown bly shutdown bly shutdown itored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON × 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 × 4 IS × 1 R(GPI × 4, GPO × 6, +5 V × 2) erCON 20A) × 1 - ess adjustment, Auto display off feature p+40°C	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY])	
XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outp Power sup Over voltage limiter, user configur Output limiter (Restored automatically) Output limiter (Restored automatically) Power sup Power sup Output limiter (Restored automatically) Power sup Output limiter (Restored automatically) Power sup Output limiter (Restored automatically) Power sup Power sup Output limiter (Restored automatically) Power sup Power sup Output limiter (Restored automatically) Power sup Power sup Power sup Power sup Output limiter (Restored automatically) Power sup Power sup Power sup Output limiter (Restored automatically) Power sup Power su	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute bly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown bly shutdown bly shutdown bly shutdown itored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON × 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 × 4 15 × 1 2(GPI × 4, GPO × 6, +5 V × 2) erCON 20A) × 1 - ess adjustment, Auto display off feature b +40°C V 50 Hz/60 Hz	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY]) 7.62mm Euro block 8 pin x 1	
XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 1050 W (2 Ω)	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Output Power supp Over voltage limiter, user configur Output limiter (Restored automatically) RJ4 RJ4 Euro block 8 pin x 1 Clame Euro block 8 pin (mini) x 2 AC inlet (pow <t< td=""><td>; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute bly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown bly shutdown bly shutdown bly shutdown it ored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON × 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 × 4 i5 × 1 P(CPI × 4, GPO × 6, +5 V × 2) erCON 20A) × 1 - ess adjustment, Auto display off feature p +40°C / 50 Hz/60 Hz 1850 W (2 Ω)</td><td>Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY]) 7.62mm Euro block 8 pin x 1 </td></t<>	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute bly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown bly shutdown bly shutdown bly shutdown it ored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON × 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 × 4 i5 × 1 P(CPI × 4, GPO × 6, +5 V × 2) erCON 20A) × 1 - ess adjustment, Auto display off feature p +40°C / 50 Hz/60 Hz 1850 W (2 Ω)	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY]) 7.62mm Euro block 8 pin x 1 	
XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 1050 W (2 Ω)	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outp Power sup Over voltage limiter, user configur Output limiter (Restored automatically) Step variable speed fa Euroblock (palanced) /ch RPA RPA Euro block 8 pin x 1 Cerve block 8 pin (mini) x 2	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute oly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically)	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY]) 7.62mm Euro block 8 pin x 1 	
XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 1050 W (2 Ω)	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outp Power sup Over voltage limiter, user configur Output limiter (Restored automatically) Step variable speed fa Euroblock (palanced) /ch RPA RPA Euro block 8 pin x 1 Cerve block 8 pin (mini) x 2	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute oly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown oly shutdown oly shutdown oly shutdown oly shutdown it ored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 - - ess adjustment, Auto display off feature o +40°C / 50 Hz/60 Hz 1850 W (2 Ω) 190 W 2W	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY]) 7.62mm Euro block 8 pin x 1	
XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 1050 W (2 Ω) 165 W	1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) Peak Limiter a Outp Power sup Over voltage limiter, user configur Output limiter (Restored automatically) Step variable speed fa Euroblock (palanced) /ch RIA RIA Cup the block 8 pin x 1 Cup the block 8 pin (mini) x 3 <td colspan<="" td=""><td>; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute oly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown oly shutdown oly shutdown oly shutdown itored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 15 x 1 2(GPI x 4, GPO x 6, +5 V x 2) erCON 20A) x 1 - ess adjustment, Auto display off feature o +40°C / 50 Hz/60 Hz 1850 W (2 Ω) 190 W 2W 8.9 x 3.5 x 20.8 inches)</td><td>Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY]) 7.62mm Euro block 8 pin x 1 1850 W (2 Ω) 190 W</td></td>	<td>; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute oly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown oly shutdown oly shutdown oly shutdown itored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 15 x 1 2(GPI x 4, GPO x 6, +5 V x 2) erCON 20A) x 1 - ess adjustment, Auto display off feature o +40°C / 50 Hz/60 Hz 1850 W (2 Ω) 190 W 2W 8.9 x 3.5 x 20.8 inches)</td> <td>Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY]) 7.62mm Euro block 8 pin x 1 1850 W (2 Ω) 190 W</td>	; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz) ind RMS Limiter it mute oly shutdown able by wattage and speaker preset → Output mute (Restored automatically) tored automatically) - tically) → Power supply shutdown oly shutdown oly shutdown oly shutdown itored automatically) n x 3, front to rear airflow XLR-3-31 /ch etherCON x 2 (Dante [PRIMARY]/[SEC- ONDARY]) Neutrik speakON NL4 x 4 15 x 1 2(GPI x 4, GPO x 6, +5 V x 2) erCON 20A) x 1 - ess adjustment, Auto display off feature o +40°C / 50 Hz/60 Hz 1850 W (2 Ω) 190 W 2W 8.9 x 3.5 x 20.8 inches)	Euroblock (balanced) /ch RJ45 x 2 (Dante [PRIMARY]/ [SECONDARY]) 7.62mm Euro block 8 pin x 1 1850 W (2 Ω) 190 W



SPECIFICATIONS ANALOGUE POWER AMPLIFIERS

				MA/PA	SERIES	
			MA2030A	PA2030A	MA2120	PA2120
AMPLIFIER CLASS	6			Cla	ss D	
CHANNELS					2	
OUTPUT POWER						
001101101121	(1KHZ, 20MS)	4 OHM	30W	30W	120W	120W
		8 OHM	30W	30W	100W	100W
		4 OHM (BRIDGED)	5000	0000	10044	10044
					-	
	CONTINUOUS	8 OHM (BRIDGED)			-	
	CONTINUOUS (20HZ-20KHZ)	2 OHM				
		4 OHM			-	
		8 OHM			-	
		4 OHM (BRIDGED)			-	
		8 OHM (BRIDGED)			-	
	HIGH IMPEDANCE	100V		W x 1		or 200 W x 1
		70V	60 \	W x 1	120 W x 2 d	or 200 W x 1
VOLTAGE GAIN (+4DBU)	8 OHM				-	
(-4000)	100V				-	
	70V				-	
INPUT SENSITIVIT	Y		Mic: -76 dBu / Line (unbal): -10dBV	Line (unbal): -10dBV / Line (bal): +4dBu	Mic: -56dBu / Line (unbal): -10dBV / Line (bal): -24dBu	Line (unbal): -10dB / Line (bal): +4dBu
MAXIMUM INPUT	LEVEL		Mic: -22 dBu / Line (unbal): +10dBV	Line (unbal): +10dBV / Line (bal): +24dBu	Mic: -8dBu / Line (unbal): +10dBV / Line (bal): +24dBu	Line (unbal): +10dBV / Line (bal) +24dBu
INPUT	BALANCED				-	
IMPEDANCE	UNBALANCED		-			
THD+N	1KHZ, HALF POW	/ER		≤ (.2%	
FREQUENCY	1W, 80HM			0dB, -3.0dB. +1.0	dB (50Hz-20kHz)	
RESPONSE	1W, 100V/70V			0dB, -3.0dB. +1.0	dB (90Hz-20kHz)	
S/N RATIO	A-WEIGHTED				-	
CROSSTALK						
SAMPLING FREQU	JENCY					
A/D D/A CONVER					-	
SIGNAL PROCESS	SIGNAL PROCESSING		FBS (Notch Type), Ducker, Lev- eler, Speaker EQ (VXS:Full Range, VXC), HPF (150Hz)	Speaker EQ (VXS:Full Range, VXC), HPF (150Hz), LPF(150Hz, 200Hz)	VXC, VXS10S/S	/XS:Full Range, T), HPF (150Hz), Hz, 200Hz)
LATENCY	ANALOG INPUT	TO [SPEAKERS] OUTPUT			-	
	DIGITAL INPUT T	O [SPEAKERS] OUTPUT			-	
LIMITER CIRCUIT					-	
PROTECTION	LOAD	POWER SWITCH ON/OFF		Outpu	t mute	
CIRCUIT		DC-FAULT		Power supp	ly shutdown	
		OUTPUT VOLTAGE PROTECTION	Compress output voltage when needed			
	AMPLIFIER	THERMAL	Limit output \rightarrow Mute \rightarrow Shutdown			
		OVER CURRENT		Output mute (Rest	ored automatically)	
		OVER VOLTAGE			-	
		LOW LOAD IMPEDANCE			-	
		INTEGRATED POWER	Compress output			
	POWER SUPPLY	THERMAL		· · · · ·	ly shutdown	
		OVER CURRENT	Power supply shutdown			
		OVER VOLTAGE	Limit output → Power supply shutdown			
COOLING			Conventional cooling, bottom to up airflow			

	PX SER	IES	
PX3	PX5	PX8	PX10
	Class D, balanced out	tput circuit (BTL)	
	2		
300 W	500 W	600 W	700 W
500 W	800 W	1050 W	1200 W
300 W	500 W	800 W	1000 W
1000 W	1400 W	-	-
600 W	800 W -		-
37 W	62 W	75 W	87 W
62 W	100 W	131 W	150 W
37 W	62 W	100 W	125 W
125 W	175 W	-	-
75 W	100 W	-	-
-	-	-	-
-	-	-	-
32.1 dB	34.3 dB	36.3 dB	37.3 dB
-	-	-	-
-	-	-	-
	+4.0 dBu, +1	4.0 dBu	
	+24 dB		
	20 kg		
	10 kΩ		
	0,3%		
	±1.0 dB (20 Hz		
	±1.0 db (20 11/	2-20 KHZ/	
100 dB	100 dB	101 dB	101 dB
≤ -60dB	≤ -60dB	≤ -60 dB	≤ -60 dB
	48 kH		_ 00 08
	AD: 24-bit linear, 128 tir		
	DA: 24-bit linear, 128 tir	mes over sampling	
	Input sum	ming	
	D-CONTOUR: FOH/MA Delay: 0-7	4 ms	
	HPF/LPF: cutoff frequency 20 Hz	-20 kHz with polarity control	
	Speaker processor: 6 band		
	1.5 ms	5	
	-		
	Over voltage limiter, user configurable		
	Output m		
	Power supply s		
	Over voltage limiter, user configurable	e by wattage and speaker preset	
01	tput limiter (Restored automatically) -	Output mute (Restored automatical)	v)
	Output mute (Restore		,,
	Output mute (Restore		
	-	·····,	
	Output limiter (Restor	ed automatically)	
	Output limiter (Restored automatica		
	Power supply s		
	Power supply s		
	16 step variable speed fan x		
		,	

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SPECIFICATIONS ANALOGUE POWER AMPLIFIERS

			MA/PA	SERIES			
		MA2030A	PA2030A	MA2120	PA2120		
I/O CONNECTORS	ANALOG I/O	Input: XLR/PHONE combo (balanced) x 1, Euroblock (bal- anced)x 1, Stereo RCA (unbalanced) x 2, Stereo mini (unbalanced) x 1, Output: Stereo RCA x 1	Euroblock (balanced) x 2, Stereo RCA (unbalanced) x 1	Input: 3.5mm Eu- roblock (balanced) x 6, Stereo RCA (unbalanced) x 2, 3.5mm Stereo mini phone (unbalanced), RCA (MONO SUM, unbalanced) x 4, Output: MONO RCA (unbalanced) x 2	Euroblock x 2 (bal- anced), Mono RCA x 2 (unbalanced)		
	DIGITAL I/O			-			
	SPEAKER OUTPUT		Barrier	strip/ch			
	NETWORK			-			
	CONTROL PORTS	RJ45 (DCP)	RJ45 (DCP)	RJ45 (DCP), Remote (3.5mm Euro block 3-pin)	RJ45 (DCP), Remote (3.5mm Euro block 3-pin)		
	OTHERS		AC inlet x1				
INDICATORS	NDICATORS		2 output LED, ON	16 input LED, 3 sys- tem LED, 4 output LED, ON	4 output LED, ON		
DISPLAY				-			
OPERATING TEN	IPERATURE		0°C to	+40°C			
POWER REQUIR	EMENTS		100V, 120V, 230V	-240V 50Hz/60Hz			
POWER CON-	1/8 POWER (PINK NOISE)	30W (3 Ohm)	30W (3 Ohm)	60W (4 Ohm)	60W (4 Ohm)		
SUMPTION	IDLE	25W	25W	20W	20W		
	STAND BY	-	-	≤ 1W	$\leq 1W$		
DIMENSIONS (W X H X D)		215 x 54 x 288 mm (8.5 x 2.1 x 11.4 inches)	215 x 54 x 288 mm (8.5 x 2.1 x 11.4 inches)	480 x 45 x 379 mm (18.9 x 1.8 x 14.9 inches)	480 x 45 x 379 mm (18.9 x 1.8 x 14.9 inches)		
NET WEIGTH		1.8 kg	1.8 kg	4.9 kg	4.8 kg		
ACCESSORIES		power cable, 3.5mm Euroblock (3-pin) x 1	power cable, 3.5mm Euroblock (3-pin) x 2	power cable, 3.5mm Euroblock (6-pin) x 3, Euroblock pulg (3-pin)	power cable, 3.5mm Euroblock (6-pin) x 1, Euroblock (3-pin) x 1		

	PX SERI	ES
PX3	PX5	
	XLR-3-31 x2, 1/4 "PH	IONE
	-	
	speakON NL4 x2, Binding post x	2 pair
	-	
	-	
	USB 2.0 Standard-A Connector (Female) fo Firmware update with USB memory;	or Sav
POW	/ER x1 (Green), ALERT x1 (Red), USB x1 (Gree	n), PR
	SIGNAL x2 (Green); Aut	to LED
	128 x 64 pixel, mono color with brightness	adjus
	0°C to +4	0°C
	220 V-240 V 50	Hz/6
160 W (4 Ω)	230 W (4 Ω)	
	60 W	
	-	
	480 x 88 x 388 mm (18.9	x 3.5
6.9 kg	6.9 kg	
	USB cover, AC cab	ole (2.

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PX8	PX10
E(TRS) x2	
irs, 1/4" PHONE(TS) x2	
ve/Load, Speaker preset upda	ate,
nlet x1 with AC cord clamp	
ROTECT x2 (Red), CLIP/LIMIT D off feature	x2 (Red),
B off fortare	
stment, Auto display off feat	ure
60 Hz	
280 W (4 Ω)	310 W (4 Ω)
i x 15.3 inches)	
7.2 kg	7.4 kg
.0m) x 1	



DIGITAL SIGNAL PROCESSORS

MORE THAN 40 YEARS OF DIGITAL SIGNAL PROCESSING

Yamaha's pioneering work in digital signal processing started in the early 1980s, with the launch of the D1500 and R1000 effects processors. Since then, over more than 40 years, product ranges such as the REV, SPX, DDL, DEQ, DMP, DME, AFC, MTX and MRX series have marked giant steps forward in digital signal processing. With the launch of the DME7 Signal Processor and the ProVisionaire suite of software-based system design and management software, an unprecedented standard of free format processing, controllability and integration is now available.

Designing and managing audio systems, no matter how small or large, complex and flexible, has never been so easy and cost effective.





WALL CONTROL PANELS

PGM/PGX PAGING STATION



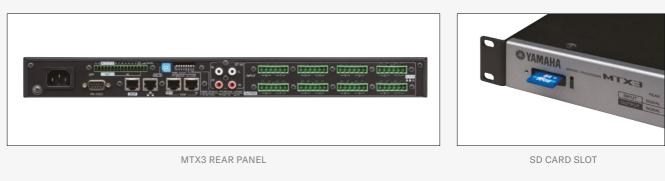
PAGING

MTX SERIES

FIXED CONFIGURATION PROCESSORS

O YAMAHA PLAK 0 0 0 0 0 7 0 C YAMAHA MTX5-D 2 3 4 5 6 7 8

DETAILS





MTX5-D REAR PANEL

THE HEART OF YOUR SOUND SOLUTION

Designed primarily for multi-zone commercial installations, MTX SERIES matrix processors are equipped with flexible processing functions that are essential to a wide variety of applications such as retail stores, restaurant/bars or banquet rooms. Responsible for the primary processing functions at the heart of your system's design, MTX processors allow you to configure, program, and manage your entire sound solution via the intuitive interface of the accompanying PROVISIONAIRE **DESIGN** software application. The series is comprised of two models with varying DSP capacities and expansion capabilities, allowing MTX processors to meet the demands of a truly impressive range of commercial environments.

QUICK SPECIFICATIONS

	MTX3
MATRIX INPUT CHANNELS	22 + 4Fx
INPUT PROCESSING	14 Channels
MICROPHONE PROCESSING	4 Channels
MATRIX OUTPUT CHANNELS	8 Channels
OUTPUT PROCESSING	8 Channels
MIC/LINE INPUTS	8 Euroblock (balanced)
STEREO INPUTS	2 RCA (unbalanced)
SD CARD SLOT	1 Stereo
ANALOGUE OUTPUTS	8 Euroblock (balanced)
MY CARD SLOT	-
YDIF I/O INTERFACE	2 x RJ45 (16/16)
DANTE I/O INTERFACE	-
CONTROL	Ethernet, RS-232, GPI I/O(8/4), DCP

KEY FEATURES

- FIXED CONFIGURATION FOR EASY AND QUICK SETUP
- EXPANDABLE AND SCALABLE
- SD CARD SLOT FOR PLAYBACK OF MP3/WAV FILES STORED ON AN SD MEMORY CARD
- AUTOMATIC MICROPHONE PROCESSING (FEEDBACK SUPPRESSOR, AUTO GAIN CONTROL, DUGAN AUTOMIXER, **PRIORITY DUCKER)**
- VARIOUS REMOTE-CONTROL OPTIONS (WALL MOUNT CONTROL PANELS, WIRELESS TOUCH PANELS, NETWORK, GPI)
- PROVISIONAIRE TOUCH / CONTROL / CLOUD / DESIGN ECOSYSTEM

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MY-SLOT (MTX5-D ONLY)

MTX5-D
30 + 4Fx
22 Channels
8 Channels
16 Channels
16 Channels
8 Euroblock (balanced)
2 RCA (unbalanced)
1 Stereo
8 Euroblock (balanced)
1 (16/16)
2 x RJ45 (16/16)
2 x RJ45 (16/16)
Ethernet, RS-232, GPI I/O(16/8), DCP



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BACKGROUND MUSIC

ACOUSTICS

LIVE SR

MRX7-D

CONFIGURABLE MATRIX PROCESSOR



DETAILS



MRX7-D BACK PANEL





SD-CARD SLOT

MY-SLOT

CENTRAL MANAGEMENT OF MULTIPLE SOUND SYSTEMS FROM A SINGLE PROCESSOR

Sound system requirements for corporate conference rooms, educational facilities, shopping malls, and a variety of other environments are becoming increasingly large and complex. The MRX7-D offers outstanding control efficiency and flexibility for a broad spectrum of audio installations. Because the MRX7-D's design architecture is freely configurable, it allows an audio engineer to create a unique solution for the customer which can incorporate many unique processing components and maximize the use of available DSP. Having built in Dante connectivity, it also allows audio systems to take advantage of the many other Dante enable products on the market including Yamaha's wide range of Digital Mixers.

QUICK SPECIFICATIONS

	MRX7D
MATRIX COMPONENT I/O SIZE	up to 64 / 64
INPUT PROCESSING	up to 110 Channels
MICROPHONE PROCESSING	up to 32 Channels
OUTPUT PROCESSING	up to 104 Channels
MIC/LINE INPUTS	8 Euroblock (balanced)
STEREO INPUTS	2 RCA (unbalanced)
SD CARD SLOT	1 Stereo
ANALOGUE OUTPUTS	8 Euroblock (balanced)
MY CARD SLOT	1 (16/16)
YDIF I/O INTERFACE	2 x RJ45 (16/16)
DANTE I/O INTERFACE	2 x RJ45 (64/64)
CONTROL	Ethernet, RS-232, GPI I/O(16/8), DCP

KEY FEATURES

- FREE CONFIGURABLE, EXPANDABLE AND SCALABLE DSP DESING FOR MAXIMUM FLEXIBILITY AND EFFICIENCY
- SD CARD SLOT FOR PLAYBACK OF MP3/WAV FILES STORED ON AN SD MEMORY CARD
- AUTOMATIC MICROPHONE PROCESSING (FEEDBACK SUPPRESSOR, AUTO GAIN CONTROL, DUGAN MIXER, PRIORITY DUCKER)
- ADVANCED DSP FEATURES (ACOUSTIC ECHO CANCELATION, SPEECH PRIVACY, DEALY MATRIX)
- VARIOUS REMOTE-CONTROL OPTIONS (WALL MOUNT CONTROL PANELS, WIRELESS TOUCH PANELS, NETWORK, GPI)
- PROVISIONAIRE TOUCH / CONTROL / CLOUD / DESIGN ECOSYSTEM



BACKGROUND MUSIC

LIVE SR

DME7

LARGE SCALE CONFIGURABLE AUDIO PROCESSOR

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SIGNAL PROCESSOR DME7

The DME7 is the large scale member of Yamaha's line-up of free configurable digital signal processors, supporting up to 256 inputs and outputs at 96kHz over Dante. Apart from the significantly larger processing power compared to the previous DME generation (DME64N), DME7 is configured using the expanded ProVisionaire Design ecosystem that has been designed to handle large scale networked audio systems and improve programming workflow, including extensive control logic functionality. The DME7 base unit 64/64 I/o capability and DSP power can be expanded in steps of 64 channels by a licensing system, allowing to tailor the system hardware cost to the application size.





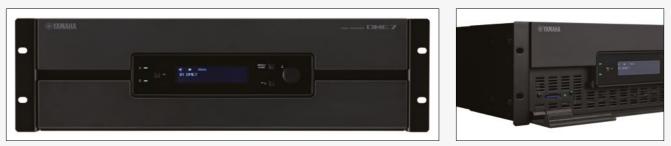




KEY FEATURES

- FREE CONFIGURABLE, EXPANDABLE AND SCALABLE DSP DESING FOR MAXIMUM FLEXIBILITY AND EFFICIENCY
- UP TO 256 / 256 I/O CAPABILITY @ 96KHZ, SUPPORTING TIO, RIO, RSIO AND RMIO DANTE I/O INTERFACES
- FREE PROGRAMMABLE LOGIC CONTROL OF AUDIO PARAMETERS
- ADVANCED DSP, INCLUDING FEEDBACK SUPPRESSOR, AUTO GAIN CONTROL, DUGAN MIXER, PRIORITY DUCKER, ACOUSTIC ECHO CANCELATION, DEALY MATRIX, REV-X, COMP260
- VARIOUS REMOTE-CONTROL OPTIONS (WALL MOUNT CONTROL PANELS, WIRELESS TOUCH PANELS, NETWORK, GPI)
- PROVISIONAIRE TOUCH / CONTROL / CLOUD / DESIGN ECOSYSTEM

DETAILS



FRONT PANEL



REAR PANEL

QUICK SPECIFICATIONS

	DME7 BASE UNIT	DME7 BASE UNIT DEK-DME7X64 ESPANSION LICENSE		E
		1	2	3
MATRIX COMPONENT I/O SIZE	64 / 64	128 / 128	196 / 196	256 / 256
INPUT/OUTPUT PROCESSING	64 / 64	128 / 128	196 / 196	256 / 256
SAMPLING RATES	44.1/48/88.2/96 kHz			
DANTE I/O INTERFACE	2 x RJ45 (64/64) (Expandable to 256/256)			
USB AUDIO I/O	USB 2.0 Type C (8/8) with SRC			
CONTROL	Ethernet (OSC), GPI I/O(16/8), DCP, MIDI			
PSU & FAN NOISE	Dual power supply, NC20			

FRONT SD CARD SLOT



GPI, ETHERNET, USB INTERFACES



EX SERIES

LOCAL RACK I/O FOR MTX/MRX SERIES

OYAMAHA

O YAMAHA

 EXI8

EXOB

OUTPUT SIGNAL

DETAILS



INPUT EXPANDER / OUTPUT EXPANDER FOR MTX/MRX SERIES PROCESSORS

CIB 1 2 3 4 5 6 7 8 PEAK 0 0 0 0 0 0 0 0

2 3 4 5 6 7 8

EXI8 input expanders convert analog microphone/line audio to digital and transmits the signal using Yamaha's YDIF format. The EXi8's preamps can be controlled remotely from MTX/MRX series processor via Ethernet cable. **EXO8** output expanders feature 8 channels of DA converters that produce high quality analog audio by converting digital output from MTX/MRX series processors via YDIF.

QUICK SPECIFICATIONS

	EXI8	
MIC/LINE INPUTS	8 Euroblock (balanced)	
ANALOGUE OUTPUTS	-	8 Eu
YDIF I/O INTERFACE	2 x RJ45	(16/16)
CONTROL	Ethe	rnet

KEY FEATURES

- **8 CHANNEL INPUT/OUTPUT EXPANDER**
- ANALOG INPUT AND OUTPUT EXPANSION FOR MTX-MRX SYSTEMS VIA YDIF
- REMOTE CONTROL AND MONITORING VIA ETHERNET

EXO8

-

Euroblock (balanced)



DCP/MCP SERIES

WALL CONTROL PANELS





WALL PANELS

DIGITAL CONTROL PANELS - DCP Series Digital Control Panel provide flexible external control of several functions such as preset recall, levels, and SD card playback. All three models are available in either US or EU standardized sizes, built to meet the specifications of most regions around the globe.

MCP1 PoE WALL MOUNT CONTROLLER - The Yamaha MCP1 is an advanced wall-mount control panel for controlling MTX and MRX systems. Its dot-matrix display and universal character facilitates dynamic labelling. Up to 36 parameters can be assigned to either the main Home page or any of the six sub pages. Any of these pages can be secured from unauthorized access by using a programmable PIN code. Up to 16 units of MCP1 can be added to an MTX/MRX system.

KEY FEATURES

- WALL MOUNT CONTROL PANELS FOR MTX-MRX SYSTEMS
- IN- AND ON-SURFACE MOUNTING, EU SIZE STANDARD BACK CAN COMPATIBLE
- FULLY CUSTOMIZABLE AND INDEPENDANT CONFIGURATION OF MULTIPLE CONTROLLERS
- DCP DAISY CHAINED CAT5 CABLING (OPTION: DCH8 FOR STAR CABLING)
- MCP1 REQUIRES POE POWER ADAPTOR OR SWITCH (E.G. SWR2100P-10G)

DETAILS



DCP4S, DCP4-VS & DCP1V4S EU SIZE DCP WALL PANELS





MCP1

MCP1 BACK CAN REAR (INCLUDED)

OUICK SPECIFICATIONS

	DCP4S	DCP1V4S	DCP4V4S	MCP1
BUTTONS	4	4	4	6 + 1 Home + 1 Back
ROTARY SWITCHES	-	1	4	-
LEDS	4	11	32	6
LCD DISPLAY	-	-	-	X by Y pixels
MAXIMUM NR. OF UNITS	8 per Processor	8 per Processor	8 per Processor	16 per MTX-MRX System
CONTROL	DCP Bus (RS-485)	DCP Bus (RS-485)	DCP Bus (RS-485)	Ethernet
POWER	DCP Bus	DCP Bus	DCP Bus	PoE
ACCESSORIES	option: DCH8	option: DCH8	option: DCH8	included: back can
COMPATIBILITY	MTX3, MTX5D, MRX7D, DME7, MA2120, PA2120	MTX3, MTX5D, MRX7D, DME7, MA2030A, MA2120, PA2120	MTX3, MTX5D, MRX7D, DME7, MA2120, PA2120	MTX3, MTX5, MRX7D

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DCH8 - STAR CONNECTION HUB FOR DCP WALL PANELS

SWR2100P-10G - POE SWITCH



PGM/PGX

PAGING STATION



PGM1 PAGING STATION MICROPHONE AND PGX1 PAGING STATION EXTENTION

The PGM1 is a Dante enabled paging station microphone with 8 buttons for use with Yamaha MTX5-D and MRX7-D processors. By adding up to 2 PGX1 expansion units, the PGM1 can be used to support up to 24 paging destinations. The microphone paging signal is available over the network through Dante.

DETAILS

PAGING





PGM1 - PAGING STATION MICROPHONE





PGM1 - REAR PANEL

PGM1 / PGX1 - BOTTOM PANEL

QUICK SPECIFICATIONS

	PGM1	PGX1
FUNCTION KEYS	8	8
PUSH-TO-TALK KEY	1	-
MIC INPUT	1	-
DANTE I/O INTERFACE	0/1	-
POWER	PoE	-
INCLUDED ACCESSORIES	Gooseneck mic, zone label	connecting bracket, connection cable

KEY FEATURES

- AUDIO AND CONTROL VIA DANTE / ETHERNET
- POE POWERED
- **8 FUNCTIONAL KEYS**
- UP TO 24 FUNCTIONAL KEYS WITH OPTIONAL PGX1
- GOOSENECK MICROPHONE INCLUDED

PGX1 - PAGING STATION EXTENSION



GOOSNECK MICROPHONE (INCLUDED IN PGM1)





PGX1 + PGX1 CONNECTING BRACKET (INCLUDED IN PGX1)

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SOFTWARE FOR PROCESSOR



PROVISIONAIRE DESIGN

PROVISIONAIRE DESIGN is a software application for Windows operating systems that allows comprehensive, intuitive design of sound systems that use compatible Yamaha products. Compatible with a wide range of Yamaha products including the DME7/MRX7-D*/MTX processors, XMV/PCD amplifiers, Rio/Tio interfaces, VXL-P speakers. ADECIA solutions, and more. ProVisionaire Design facilitates sound system design and setup by allowing flexible component layout, signal routing, and parameter editing in open-architecture processors such as the DME7 and MRX7-D. It also provides a comprehensive overview of components and signal routing in MTX series fixed-architecture processors. A wide range of high-quality audio components that only a leader in the field of professional sound reproduction can provided include Rev-X for refined reverb, and the Dugan Auto Mixer for flawless automated mixing. ProVisionaire Design can be used in conjunction with the ProVisionaire Control computer applications for comprehensive control of any project, from system design and setup to everyday operation and management.

PROVISIONAIRE CONTROL AND PROVISIONAIRE TOUCH

PROVISIONAIRE CONTROL and **PROVISIONAIRE TOUCH** are software applications that provide unified remote control and monitoring of the entire systems. ProVisionaire Control supports Windows devices, and ProVisionaire Touch supports the iPad. A broad range of devices are supported, including MTX/MRX processors, CL/QL/TF digital mixers, Rio I/O units, XMV power amplifiers, DZR and DXS-XLF powered speakers and NEXO NXAMPMK2 powered TD controllers. Custom control panels can be created by assigning necessary parameters to a single display page. ProVisionaire Control includes the ProVisionaire Monitoring Service, making it easy to monitor the status of system

devices while alerts and other log data can be recorded to a computer.

PROVISONARE CLOUD

PROVISIONAIRE CLOUD is a cloud service that allows management of Yamaha pro and commercial audio device licenses. ProVisionaire Cloud services are available to corporations and independent operators who have created a Yamaha Music ID for Business account. Expanded function licenses for devices can be activated by registering the license on ProVisionaire Cloud and using the dedicated ProVisionaire Portal license activation application. Licenses can be freely activated and deactivated according to the user's needs

WIRELESS DCP

WIRELESS DCP is an application for Android and Apple iOS devices that provides remote control of Yamaha MTX series Matrix Processors and MRX7-D Signal Processor. The application provides simple, intuitive graphical templates, which allow users, such as venue staff to control functions of the MTX/MRX processor.

KEY FEATURES

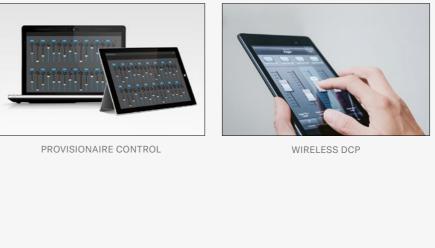
- **FULL SYSTEM CONFIGURATION WITH MTX AND DME** SERIES (PROVISIONAIRE DESIGN) AND MRX SERIES (MTX-MRX EDITOR)
- ONLINE AND OFFLINE EDITING OF ALL PARAMETERS
- PROVISIONAIRE TOUCH / CONTROL / CLOUD / DESIGN ECOSYSTEM
- EASY CONTROL WITH BYO DEVICES USING WIRELESS DCP FOR IOS AND ANDROID
- LICENSE MANAGEMENT FOR HARDWARE ADDITIONAL FUNCTIONS (PROVISIONAIRE CLOUD)





PROVISIONAIRE SOFTWARE SUITE





PRO VISIONAIRE TOUCH

OUICK SPECIFICATIONS

	PROVISIONAIRE DESIGN	PROVISIONAIRE CONTROL	PROVISIONAIRE TOUCH	WIRELESS DCP	PROVISIONAIRE CLOUD
OPERATING SYSTEM	Windows 10/11	Windows 10/11	iPad OS 11.0 or later	iOS 5.1.1 or Android 4.2	Windows 10/11
DSP DESIGN	MTX, MRX, DME7	-	-	-	DME7
GUI DESIGN		free	free	fixed templates	
SYSTEM REQUIREMENTS	Core i3/5 or better, 4GB or more, 230 MB or more free	Intel Atom or better, 2GB or more, 300MB or more free	iPad with 74,5MB free space	Apple iOS device with 17,2MB free space or Android device with 10MB free space	
MAX NUMBER OF CLIENTS	8	8	8	8	-

PRODUCT / SOFTWARE COMPATIBILITY

	PROVISION- AIRE DESIGN	MTX-MRX EDI- TOR	PROVISION- AIRE CONTROL	PROVISION- AIRE TOUCH	WIRELESS DCP	PROVISION- AIRE CLOUD
PROCESSORS MRX, MTX, DME7	yes*	yes	yes	yes	yes	DME7
POWER AMPLIFIERS: XMV, PC-D	yes	yes	yes	yes	-	-
NETWORKED MIXERS: QL, CL, RIVAGE PM	-	-	yes	yes	-	-
POWERED SPEAKERS: DZR, DCX-XLF	-	-	yes	yes	-	-
I/O UNITS: EXI/O, R SERIES	yes	yes	yes	yes	-	-
AV COMPONENTS: MUSICCAST, BLUE-RAY	-	-	-	yes	-	-
DISCLAVIER ENSPIRE	-	-	-	yes	-	-

* PROVISIONAIRE DESIGN support for MRX7-D in fall 2023

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MTX-MRX EDITOR



SPECIFICATIONS DSP & I/O RACK

			MATRIX PRO	OCESSORS	
			MTX3	MTX5-D	
DSP FUNCTIONS	MIXING CHANNELS		Mixing Channel: 8 Mono + 3 Stereo + 2 Effect Return + 8 Direct-in to Matrix/ Output Busses: 8 Mono	Mixing Channel: 16 Mono + 3 Stereo + 2 Effect Return + 8 Direct-in to Matrix/ Output Busses: 16 Mono	
	INPUT CHANNEL		Mono CH: 3-band PEQ, Comp, Gate, Auto Gain Control, Feedback suppressor and Dugan Au- tomixer (only available in ch 1-4)/ Stereo CH: 3-band PEQ, Comp, Auto Gain Control	Mono CH: 3-band PEQ, Comp, Gate, Auto Gain Control, Feedback suppressor (avail- able in ch 1-8)/ Stereo CH: 3-band PEQ, Comp, Auto Gain Control	
	OUTPUT CHANNEL		Room Delay, Room EQ, Speaker F Delay, 6-band	Processor, X-Over (1way, 2way), PEO Limiter	
	INTERNAL PROCESS	SING	Priority Ducking, Ambient Noise Comp	47	
	PRESETS		50		
I/O CHANNELS	ANALOGUE I/O		8 mic/line + 2 ste		
., • • •	YDIF I/O		16 /		
	DANTE I/O		-	16 / 16	
	USB I/O		_	-	
	MY SLOT		-	16 / 16	
CONNECTORS	AUDIO	ANALOG I/O	16x Euroblock (balance		
		YDIF I/O	RJ45 x 2 ([YD		
		DANTE I/O	-	RJ45 x 2 (Dante [PRIMARY]/SECONDARY	
		USB I/O	-	-	
		SD CARD	-	-	
	CONTROL	NETWORK	RJ45 x 1	Shared with Dante ports	
	CONTROL	SERIAL	D-sub 9 (I		
		GPI	8 IN (0-5 V), 4 OUT (Open Collector), +5 V	8 IN (0-5 V), 8 OUT (Open Collector), +5	
		DCP	RJ45 (max 8 DCP panels)		
		MIDI	-		
ANALOG INPUT	PHANTOM POWER		+48 V		
SPECIFICATIONS	INPUT GAIN INPUT 1-8 ST IN 1,2		+66 dB to	· · · · · · · · · · · · · · · · · · ·	
	INPUT LOAD IMPEDANCE		10 k	Ω	
	INPUT LEVEL INPUT 1-8 NOMINAL		-62 dBu (Gain: +66 dB), +10 dBu (Gain: -6 dB)		
		ST IN 1,2	-10d	BV	
	MAX INPUT LEVEL BEFORE CLIP	INPUT 1-8	-42 dBu (Gain: + 66dB), +30 dBu (Gain: -6 dB)		
		ST IN 1,2	+10 d		
ANALOG OUTPUT SPECIFICATIONS	OUTPUT SOURCE IN		75 Ω +4 dBu		
	MAX OUTPUT LEVEL		+24 d		
AUDIO SYSTEM SPECIFICATIONS	SAMPLING FREQUE		48 kHz/ 44.1 kHz		
	A/D D/A CONVERTE SIGNAL DELAY	ro	24-bit linear, 128 times over sampling < 2.5 ms (AD-DA @48 kHz) < 3.0 ms (AD-DA @48 kHz)		
	TOTAL HARMONIC D	ISTORTION	< 2.5 His (AD-DA (@46 K12) < 3.0 His (AD-DA (@46 K12) < 0.05 % (+4 dBu, Gain:-6 dB), < 0.1% (+4 dBu, Gain:+66 dB)		
	FREQUENCY RESPO	NSE	20 Hz to 20 kHz, +0.5 dB, -1.5 dB		
	DYNAMIC RANGE	FOLIN	107 dB (Gain: -6 dB)		
	HUM & NOISE LEVEL	EQUIVALENT INPUT NOISE	-60 dBu (Gai -83 dBu (Ga		
	CROSSTALK		-100 dB		
GENERAL	SWITCHES		3 preset (up, down, enter), Power ON/OFF		
	SIGNAL & STATUS IN	IDICATORS	30 Leds	33 Leds	
	DISPLAY		2x 7-Segment Led		
	HEAT DISSIPATION		< 43 kcal/h < 55.9 kcal/h		
	NC VALUE		27	23	
	POWER	REQUIREMENTS	AC 100 V - 240 V	50 Hz / 60 Hz	
		CONSUMPTION	50 W	65 W	
	DIMENSIONS	WXHXD	480 x 44 x 362 mm	480 x 88 x 351 mm	
	NET WEIGHT		4.8 kg	6.3 kg	
	INCLUDED ACCESSORIES		Power cord, Euroblock plugs (3-pin, tabbed) x16, Euroblock plugs (16-pin) x1, Cable Ties, Manual		

		I/O R	
MRX7-D	DME7	EXi8	EXo8
free con	figurable	-	
free con	figurable	-	
free cor	figurable		
Q, GEQ, BPF, LPF, HPF, Comp, Gate, Limiter, Auto iain Control, Feedback suppressor (Noth, Pitch), ugan Automixer, Delay, Priority Ducking, Paging cker, Ambient Noise Compensator, Paging, Effect (Echo, Reverb), AEC, Speech Privacy		· · · ·	
50	999	-	
8 mic/line + 2 stereo line / 8 line	-	8 mic/line / -	- / 8 line
16 / 16	-	- / 8	8 / -
64 / 64	64 / 64 - 256 / 256 (license based)	-	-
-	8/8 with SRC	-	
16/16	_		
16x Euroblock (balanced), 4x RCA (ST IN 1,2)	-	8x Eurobloci	k (balanced)
RJ45 x 2 ([YDIF] IN/OUT)	_	RJ45 x 2 ([YE	
RJ45 x 2 (Dante [PRIMARY]/[SECONDARY])	RJ45 x 2 (Dante [PRIMARY]/[SECONDARY])		
	USB-C x 1		
SD card	SD card		
Shared with Dante ports	RJ45 x 1	RJ48	5 x 1
D-sub 9 (RS-232)	-		
8 IN (0-5 V), 8 OUT (Open Collector), +5 V	16 IN (0-5 V), 8 OUT (Open Collector), +5 V	· · · · ·	
RJ45 (max 8 DCP panels)	RJ45 (max 8 DCP panels)	· · ·	
-	In, Out		
+48 V	-	+48 V	-
+66 dB to -6 dB	-	+66 dB to -6 dB	-
-	-	-	
10 kΩ	-	10 kΩ	-
-62 dBu (Gain: +66 dB), +10 dBu (Gain: -6 dB)	-	-62 dBu (Gain: +66 dB), +10 dBu (Gain: -6 dB)	-
-10dBV	-	-10 dBV	-
-42 dBu (Gain: + 66dB), +30 dBu (Gain: -6 dB)	-	-42 dBu (Gain: +66 dB), +30 dBu (Gain: -6 dB)	-
+10 dBV	-	+10 dBV	-
75 Ω	-	-	75 Ω
+4 dBu	-	-	+4 dBu
+24 dBu	-	-	+24 dBu
48 kHz/ 44.1 kHz	44.1 khz - 96 kHz	48 kHz/	44.1 kHz
24-bit linear, 128 times over sampling	-	24-bit linear, 128 ti	1 0
1.9 ms (AD-DA @48 kHz)	1 ms @ 96kHz	< 2.5 ms (AD-	DA @48 kHz)
< 0.05 % (+4 dBu, Gain:-6 dB), < 0.1% (+4 dBu, Gain:+66 dB)	-	< 0.05 % (+4 dBu, Gain:+ Gain:+	
20 Hz to 20 kHz, +0.5 dB, -1.5 dB	-	20 Hz to 20 kHz,	
107 dB (Gain:-6 dB)	-	107 dB (G	
-60 dBu (Gain: +66 dB), -83 dBu (Gain: -6 dB)	-	-126 dBu (Ga	
-100 dB	-	-100	
3 preset (up, down, enter), Power ON/OFF	3 preset (up, down, enter), rotary	Power C	
33 Leds	2 leds	20 Leds	
2x 7-Segment Led	128x64 dots, monochrome display		-
< 55.9 kcal/h	< 86.2kcal/h	21.5 kca	
23	20	22	24
	dual PSU, AC 100 V - 240 V 50 Hz / 60 Hz	AC100 V-240 \	/ 50 Hz/60 Hz
AC 100 V - 240 V 50 Hz / 60 Hz		25 W	
AC 100 V - 240 V 50 Hz / 60 Hz 65 W	100W	25	W
	100W 480 x 132 x 363 mm	25 480 x 44	

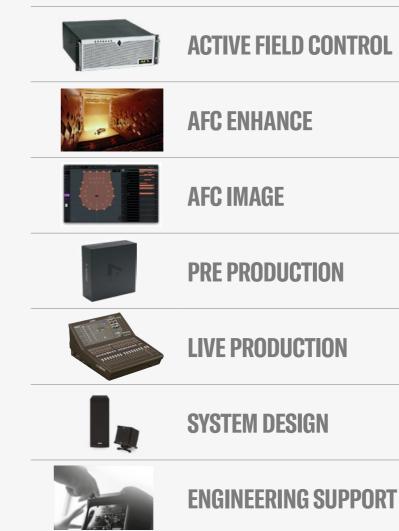


ACTIVE FIELD CONTROL

IN 1985 YAMAHA INTRODUCED ACTIVE FIELD CONTROL, OR AFC, A PIONEERING ACOUSTIC **REGENERATION, IMMERSIVE AUDIO SYSTEM.** Harnessing many decades of experience in manufacturing musical instruments, professional audio products and designing numerous performance spaces, AFC took Yamaha's unique insights into the behaviour of sound to create a system which could completely change the acoustics of a space at the touch of a button, even in an outdoor or roofless venue.

AFC uses optimally placed microphones and loudspeakers with powerful digital signal processing (DSP). The latest version, AFC Enhance, features the very latest DSP processing and hardware to create the most natural, pleasing sound, even in very difficult acoustic environments. The sound of a single space can be optimised for many different uses, giving both audiences and performers alike the best experience.

But that's not all. AFC Image is a software system which harnesses the power of an AFC Enhance system to position perceived audio sources in three dimensions. With live control from a variety of interfaces, AFC Image adds a new dimension to almost any performance.



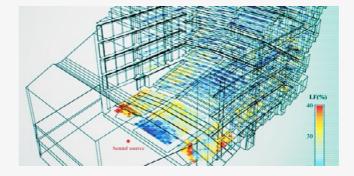




ACTIVE FIELD CONTROL







AFC PROCESSING COMPUTER FRONT PANEL AFC PROCESSING COMPUTER REAR PANEL

Active Field Control, or AFC, was brought to the market in 1985 as a collaboration between Yamaha's digital signal processing (DSP) and acoustic consultancy design teams. Since then it has evolved continually to arrive at today's fourth generation AFC system. The system operates with all Yamaha and NEXO loudspeakers, as well as networked i/o components such as microphone pre-amplifiers, power amplifiers, matrix processors, i/o bridges and Dante-optimized managed Ethernet switches, all capable of being controlled and monitored through Yamaha's ProVisionaire audio system management software suite.

AFC systems are based on the AFC processing computer running two software packages simultaniously: AFC Enhance for acoustic enhancement of the performance space, and AFC Image for immersive object based panning. Additionally, AFC Image can be controlled by a wide range of user intrefaces, ranging from networked mixing consoles to tailor made OSC applications.







ACOUSTIC DESIGN EXPERTISE

Since 1969, Yamaha has been involved in acoustic research aimed at finding the ideal relationship between performer, audience and space. A deep understanding of acoustic technology, encompassing architectural acoustics, electronic acoustics and noise control, provides the basis for technology that allows us to turn an acoustically dead environment into a reverberant cavern or cathedral at the touch of a button and easily move sound effects to any position in an acoustic space. The experience is further reinforced by an original 3D reverberation system that generates reverb optimized for the locations of individual objects, resulting in astonishing presence and realism.

FLEXIBILITY AND SCALABILITY

Every customer has different needs, so the ability to create systems that can adapt to any application is essential. That flexibility is the core of the AFC system, allowing easy integration of DAWs, mixers, tracking systems and other third-party hardware and software. AFC offers versatile ambience control, precise acoustic image control, 3D reverberation, space, binaural output and more.

THE POWER OF COLLABORATION

AFC's continued development and growth hinges on high-level input and support from Yamaha Group experts, including those from Steinberg and NEXO. This alliance enables close collaboration between experts from a variety of related fields, driving innovation and development that keeps AFC and other technologies way ahead of the curve.



AFC ENHANCE



AFC ENHANCE IMPROVES THE ACOUSTIC ENVIRONMENT, VIA MULTIPLE MICROPHONES AND LOUDSPEAKERS STRATEGICALLY LOCATED THROUGHOUT THE SPACE. THIS TYPE OF SYSTEM GENERALLY EMPLOYS ONE OF THE TWO FOLLOWING METHODS:

- The in-line approach uses convolution signal processing to add synthesized reflected sound data (measured impulse responses) to the sound, picked up via the microphones and creating the desired sonic environment.
- The regenerative approach uses acoustic feedback, reproducing the sound picked up by the microphones via the loudspeakers and then picking up that sound again after being affected by the room's acoustics. This creates an acoustic 'loop' that amplifies the room's acoustic energy.

AFC ENHANCE is a hybrid system that employs both of these methods, via the AFC Enhance software application running on an AFC processing computer. Reverberation and early reflections have a profound influence on the auditory impression. Detailed control of these allows the sound propagating throughout the space to be adjusted as required, while retaining the natural acoustic properties of the room's structure. AFC has been applied in over 150 concert halls, opera houses, theatres, multi-purpose halls and auditoriums all over the world. Three **AFC ENHANCE** software applications are available: AFC402 for basic enhancement, AFC404 for multi-area enhancement and AFC406 for complex, multi-area support.

KEY FEATURES

- HYBRID REGENERATIVE ACOUSTIC ENHANCEMENT
- NATURAL RESPONSE
- REVERBERATION & EARLY REFLECTION SUBSYSTEMS
- STAGE SUPPORT / ELECTRONIC STAGE SHELL
- UNDER-BALCONY SUPPORT
- EASY USER CONTROL THROUGH WALL PANELS AND WIRELESS TABLET

REFERENCES





MINSK MAZOWIECKI

SINGAPORE





WARSAW

STOCKHOLM





HOUSTON

NEW YORK

QUICK SPECIFICATIONS

	AFC402	AFC404	AFC406		
ENHANCEMENT MODES	HYBRID REGENERATIVE IN-LINE				
ENHANCEMENT SCOPE	BASIC	MULTI-AREA	COMPLEX		
EQUIVAENT NR. OF CHANNELS	16	32	48		
MAX NR. OF SPEAKERS	96				
INCLUDED SUPPORT FOR AFC IMAGE	16 OBJECTS				
SAMPLE FREQUENCY	UP TO 96KHZ				



QATAR



ΤΟΚΥΟ



HALMSTAD



SZCZECIN



КҮОТО



OSLO



AFC IMAGE

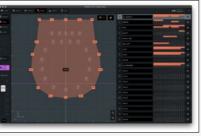


AFC Image is an immersive system that allows users to control the perceived positions of acoustic images within a space, including the rendering of 3-D reverberation and binaural monitoring. The system uses an AFC processing computer, AFC Image object-based rendering software and pre-production digital audio workstations. Multiple, simultaneous live immersive control is provided by computers, tablets, mixing consoles and tracking systems. The resulting sound image can be played back to an audience via loudspeakers. AFC Image provides content creation support for theater, opera, concert, installation, event and other applications.

AFC Image is a software application which runs on the AFC processing computer in parallel with the AFC Enhance application. These two applications go together: AFC Enhance creates the perfect acoustic environment for AFC Image to work at its best. This is why, even for systems dedicated only to acoustic enhancement, a limited version of AFC Image is included as a standard and systems dedicated to object-based audio include a basic version of AFC Image.

KEY FEATURES

- 128 OBJECTS
- **RUNS IN PARRALLEL TO AFC ENHANCE ON THE SAME PROCESSING COMPUTER**
- QL, CL AND RIVAGE PM MIXER LIVE PRODUCTION
- NUENDO PRE PRODUCTION
- AFC EDITOR, WEBSERVER GUI
- 96 CHANNELS AUX INPUT FOR EXTERNAL IMMERSIVE SYSTEMS



RENDERING AREA CONVERSION

For object-based rendering, the user Speaker zoning allows audio objects can convert the rectangular daw or to be assigned to specific sets of console panning/rendering area to any geometric configuration from a basic cube to a 16-sided polygon, within defined for precise yet flexible control which objects can be positioned. three of perceived object positioning. layers are available with heights that can be individually defined by the user.



SPEAKER ZONING speakers within the system. afc image allows up to 32 speaker zones to be



OBJECTS & CHANNELS

object-based audio is extremely versatile and controllable. while in some situations a channel-based workflow may be a practical approach. afc image simultaneously supports both object and channel-based audio, giving creators the best of both worlds. processing a combination of up to 128 objects provides ample capacity for the most demanding productions, while zoning provides versatile support for channel-based production. it also supports any 3rd party immersive renderer to give transparent and/or zoned access to all system channels.

OUICK SPECIFICATIONS

	NR	2. 0	DF	0	B.	IE
1	NR	. 0	DF	0	U.	ΓF

- NR. OF AUX
- REVERBERA
- MONITORIN
- **USER INTER**

0



BINAURAL OUTPUT

Immersive sound can be experienced in headphones too, so afc image provides the necessary binaural rendering tools. immersive content can be output in two-channel binaural form for monitoring and for streaming to remote locations.



3D REVERB

in a real acoustic space, perceived reverberation varies with the listening position. a knowledge base built up over years of designing theaters and halls has allowed yamaha to develop original 3d reverberation technology that creates reverb optimized for the locations of individual objects, resulting in a deeper, more realistic sound field. the direction and spread of the reverberation can be freely controlled via an intuitive graphic interface.

	AFC IMAGE
CTS	128
PUT CHANNELS	64
INPUTS	96
TION	3D
G	BINAURAL
FACES	AFC Editor, web server, QL/CL/Rivage PM mixing consoles, Stage trackers, OSC GUI



IMMERSIVE PRE PRODUCTION



NUENDO DIGITAL AUDIO WORKSTATION

As the most advanced audio post-production solution available, Nuendo is the choice of film, TV, game audio, music and immersive sound industry professionals worldwide. Ever since its initial release, Nuendo has been a vital tool in creating the soundtrack to many high-profile productions, products and installations. Regular updates with new features, workflow improvements and additional, user-requested functions mean that Nuendo constantly exceeds the expectations of an audio workstation dedicated to audio post, with high end – often unique – capabilities that continue an ongoing revolution in audio and media production software.

VST MultiPanner is Nuendo's immersive-sound panning system providing full support for surround formats up to 22.2 as well as Auro 3D and Dolby Atmos, which enables sound to move in a three-dimensional space. The VST MultiPanner provides a 2D-Top View and a 3D-Rear View, displaying the audio sources, which can be linked together or can be grabbed individually to perform several movements including signal rotation, such as tilt or rotate. To easily create bottom-top pan movements, several elevation patterns are on hand.

KEY FEATURES

- VST MULTIPANNER IMMERSIVE SOUND PANNING SYSTEM INCLUDING SUPPORT FOR AFC IMAGE, DOLBY ATMOS, AURO 3-D AND AMBISONICS
- SUPERIOR AUTOMATION SYSTEM PLUS NETWORKING CAPABILITIES MIXED CHANNEL AND OBJECT BASED WORKFLOW WITH ADM IMPORT
- SUPPORTS LAPTOPS AS WELL AS FULL INTEGRATION WITH THE YAMAHA NUAGE POST-PRODUCTION SYSTEM, NUENDO SYNCSTATION AND EUCON SUPPORT
- INTEGRATED VR WORKFLOWS, SUPPOIRTING DEARVR SPATIAL CONNECT, FACEBOOK360, OCULUS RIFT, HTC VIVE AND MORE



CREATIVE ENVIRONMENT

VST A Nuendo system can comprise a simple laprop running Nuendo and Dante Virtual Soundcard for a total of 64 objects to work stand-alone in a surround studio monitoring enviroment or integrate with the AFC Image application, all the way up to a fully networked integrated studio environment with up to 128 objects, tactile control surfaces and a broad range of other immersive production tools.

VST MULTIPANNER

VST MultiPanner is Nuendo's immersive-sound panning system providing full support for surround formats up to 22.2 as well as AFC Image, Auro 3D and Dolby Atmos, which enables sound to move in a three-dimensional space. The VST MultiPanner provides a 2D-Top View and a 3D-Rear View, displaying the audio sources, which can be linked together or can be grabbed individually to perform several movements including signal rotation, such as tilt or rotate. To easily create bottom-top pan movements, several elevation patterns are on hand.

QUICK SPECIFICATIONS

MAXIMUM NR. OF TRACKS	unlir
MAXIMUM NR. OF OBJECTS	With Dante Virtual Sound
IMMERSIVE PRODUCTION TOOL	VST Mu
WORKFLOW	Studio: full s
OBJECT BASED SUPPORT	AFC Ir
CHANNEL BASED SUPPORT	
RECOMMENDED PC REQUIREMENT	
OS SUPPORT	



NUENDO 11

imited (depends on system configuration)

dcard: 64 objects, with AIC128-D PCI Express card: 128 objects

ultiPanner Immersive Sound Panning System

Project & on tour: laptop. system integration with nuage production system and networked studio environment

mage, Dolby Atmos, AUro 3-D, Ambisonics

5.1 up to 22.2

Intel i7 or faster, 16GB RAM

Windows 10, MacOS



IMMERSIVE LIVE PRODUCTION



The AFC IMAGE functionality can be controlled simultaniously by a wide range of user interfaces, including AFC Editor software for Windows10 and MacOS, tablets and computers via the AFC processing computer's built in web server, QL/CL/ RIVAGE PM mixing consoles, the Nuendo Digital Audio Workstation, and tracking systems such as TTA STage Tracker. All these immersive live production tools are designed to give quick and intuitive control over sound object positions through already familiar user interfaces and workflows, so almost no learning curve is needed. In addition, Open Sound Control can be used to add tailor made user interface applications on software platforms such as Lemure, Touch OSC and MAX.



AFC IMAGE EDITOR (object panning, 3d reverb editing, selecting the afc unit's ip address. binaural).

WEB SERVER AFC image editor software is available all live control functions of afc image for windows and macos, offering system editor can also be controlled through configuration (loudspeaker placement, multiple devices, such as tablets venue shape, zoning) and live control and pcs through a web browser, by



TRACKING SYSTEMS as stagetracker ii can be applied.



OPEN SOUND CONTROL to automate the object positioning of AFC image objects can be controlled actors on stage, tracking systems such by any product or software application using the open sound control protocol. examples are touch osc, max, lemur.

KEY FEATURES

- AFC IMAGE EDITOR (WIN10, MACOS)
- WEB SERVER (LAPTOP, TABLET)
- QL, CL AND RIVAGE PM MIXING CONSOLES
- NUENDO
- STAGE TRACKERS
- OPEN SOUND CONTROL







MIXING CONSOLES

QL, CL and RIVAGE PM consoles can be used to control AFC image object positioning.



NUENDO

Nuendo's VST multipanner can control AFC image object positioning, recorded manually or through interactive live control.



SYSTEM DESIGN

WYAMAHA

VXC SERIES



VXS SERIES

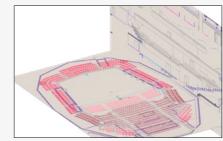


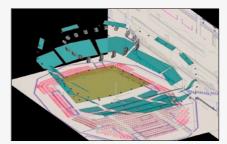
VXL SERIES





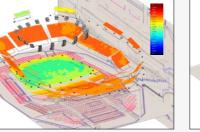


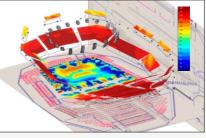




IMPORT VENUE GRAPHICS







SPL SIMULATION

IMMERSIVE SUPPORT SIMULATION



NEXO'S NS-1 immersive configuration software fully supports AFC system design with an intuitive drag and drop user interface. Measured speaker data is processed along with complex mathematical data to predict SPL coverage and immersive support in three dimensions.

The NS-1 workflow is fast and intuitive. First generate venue graphics from scratch, or import them from EASE, Google Earth, SketchUp 3D, Collada, STL, JPG or PDF. Then add audience frames and speaker layout, selecting speakers from the complete NEXO loudspeaker ranges. Run SPL and immersive support simulations for iterative design and reporting.

KEY FEATURES

- IMMERSIVE CONFIGURATION SOFTWARE FOR AFC IMAGE SYSTEMS
- SPL AND IMMERSIVE SYSTEM SUPPORT SIMULATIONS
- SUPPORTS FULL YAMAHA AND NEXO LOUDSPEAKER RANGES
- EXPORT LOUDSPEAKER POSITIONS AND PROPERTIES FOR IMMERSIVE SYSTEMS
- **QUICK VENUE DRAWING & IMPORT TOOLS**

QUICK SPECIFICATIONS

PROJECT FILE	speaker sys
IMPORT VENUE FORMATS	NEXO Venue (.nxv), Collada/S
EXPORT VENUE FORMATS	Venue (.nx
SPL SIMULATION	ISO frequency bands or bro
SUPPORTED SPEAKER SYSTEMS - NEXO	
OPERATING SYSTEM	

AUDIENCE PLANES & SPEAKER LAYOUT



NS-1 IMMERSIVE CONFIGURATION SOFTWARE

FEATURES

stems, venue items and simulated SPL and ISI contours

/Sketchup (.dae), 3D Systems (.stl), Google Earth (.kmz), Ease Audience/ Face (.xar, .xfc), plain text (.txt).

xv), Ease Face (.xfc), or image, speaker positions (.csv)

roadband (Z, dB A, B, C or dB MIF), with user defined resolution, band-width, and SPL range (optional headroom).

Geo M, ID, P+, ePS, STM series

Windows 10



ENGINEERING SUPPORT

AFC SYSTEM ENGINEERING GROUP

AFC installations require specialized system engineering for the design and tuning of the immersive loudspeaker system. To support this, Yamaha Music Europe and NEXO have appointed a team of experienced engineers with backgrounds in acoustics and electro-acoustics, and a track record of design and tuning immersive sound reinforcement systems to support system integrators, sound designers and sound engineers in Europe.





RON BAKKER, BSC.

MACIEJ BLACHNIO, MSC.





GERRIT CARSTENS, MSC.

WOUTER VERKUIJL, MSC.

AFC IMAGE AUDIOVERSITY

A series of single-day AVIXA RU-rated Audioversity training seminars will be offered throughout Europe, introducing AFC Enhance and AFC Image technologies and operation. Additonally, a series of in-depth training sessions on the topic of immersive electro-acoustic design and simulation, audio and control networking and immersive mixing will be offered, leading to an AFC Image Certified Engineer certificate. Please check our web site for announcements, or send us an email.

AFC ENHANCE PROJECT SUPPORT

For all AFC Enhance systems, design and construction phase support, as well as full tuning support, are included in system offers. This includes an international team of AFC tuning engineers who will visit the site and tune the AFC Enhance system to meet the project's requirements. Such tuning sessions take several days and include technical tuning, as well as live tuning with system users playing their material. A check-up after six months is also included, to re-adjust the system after users have experienced the enhanced acoustic environment. All projects are carried out under the ANSI/InfoCom 2M-2010 project management standard. For more information, please send us an email.

KEY FEATURES

- YAMAHA / NEXO EUROPEAN ELECTRO-ACOUSTIC ENGINEERING TEAM
- CTS AND DANTE L3 CERTIFIED
- ENGINEERING SUPPORT FOR AFC ENHANCE AND AFC IMAGE SYSTEM DESIGN
- SUPPORTING ANSI-INFOCOMM 2M-2010 AND 10:2013 PROCESS & VERIFICATION STANDARDS
- AFC ENHANCE TUNING (INCLUDED WITH AFC ENHANCE)
- AFC IMAGE AUDIOVERSITY (CERTIFIED AFC IMAGE ENGINEER)





CAROLE MARSAUD, MSC.



FRANCOIS DEFFARGES, MSC.



NICOLAS POITRENAUD, MSC.



CHRISTOPHE GIRRES, BSC.

CONTACT US: IMMERSIVE-SEG-EU@MUSIC.YAMAHA.COM



SPECIFICATIONS ACTIVE FIELD CONTROL

AFC PROCESSING COMPUTER

- 4U 19" SERVER CLASS
- **256 DANTE INPUTS @96KHZ**
- **256 DANTE OUTPUTS @96KHZ**
- INCLUDED IN PROVISIONAIRE LIBRARY

AFC IMAGE LIVE CONTROL

- AFC IMAGE EDITOR CONTROL SOFTWARE FOR WIN/MAC
- MULTI-CLIENT IP WEB SERVER
- LIVE CONTROL THROUGH: QL, CL AND RIVAGE PM CONSOLES; OSC CONTROL; TRACKING SYSTEM

AFC ENHANCE SOFTWARE

Hybrid regenerative acoustic enhancement provides full control of the acoustic conditions within the performance space, including early reflections, diffuse reverberation, active stage shell, stage / orchestra pit support, under balcony support

- IN-LINE ACOUSTIC ENHANCEMENT FOR THEATRICAL EFFECTS
- APPLICATION SIZES, EACH INCLUDING 16 OBJECT AFC IMAGE MODULE: AFC402 FOR BASIC ENHANCEMENT; AFC404 FOR MULTI-AREA ENHANCEMENT; AFC406 FOR COMPLEX AREA ENHANCEMENT
- **32 MICROPHONE CHANNELS, 96 LOUDSPEAKER CHANNELS**

AFC IMAGE PRE-PRODUCTION

- NUENDO 11 DIGITAL AUDIO WORKSTATION
- VST MULTIPANNER SUPPORT: AFC IMAGE, DOLBY ATMOS, AURO 3-D, AMBISONICS
- ADM IMPORT
- CINEMATIC VR PRODUCTION SUITE
- SUPERVISION METERING PLUG-IN SUITE
- MEDIA BAY CONTENT MANAGEMENT, MONITORING MATRIX, AUTOMATION
- FULL INTEGRATION WITH YAMAHA NUAGE POST-PRODUCTION SYSTEM

AFC IMAGE SOFTWARE

- 128 OBJECTS
- 64 OUTPUT CHANNELS / 96 LOUDSPEAKER CHANNELS / 32 ZONES
- **3D REVERBERATION**
- BINAURAL RENDERER
- 96 AUX INPUTS SUPPORTING EASY CONNECTION OF THIRD PARTY IMMERSIVE RENDERERS. SIMULTANIOUSLY WITH AFC IMAGE FUNCTIONALITY.



IMMERSIVE LOUDSPEAKER SYSTEM DESIGN

- NS1 IMMERSIVE LOUDSPEAKER SYSTEM CONFIGURATION TOOL
- SUPPORTED NEXO LOUDSPEAKER SERIES: ID , P+, GEO-M, STM
- SUPPORTED YAMAHA LOUDSPEAKER SERIES: VXS, VXC, VXL, CBR/DBR, DXR, CZR/DZR
- SUPPORTED NEXO AND YAMAHA NETWORKED POWER AMPLIFIER SERIES: NXAMP, XMV, PC-D
- IMPORT EASE, PDF, JPG, GOOGLE EARTH, SKETCHUP, COLLADA WIRE FRAMES
- SPL AND LOUDSPEAKER IMMERSIVE SUPPORT SIMULATIONS
- **EXPORT LOUDSPEAKER POSITIONING DATA FOR IMMERSIVE RENDERERS**



NETWORKED MIXING SYSTEMS

DIGITAL, NETWORKED, CONTROLLED, IMMERSIVE

The first mass-produced digital mixing console was Yamaha's DMP7 Digital Mixing Processor. Launched in 1987, it started the development of the digital mixing console as we know it today. Still on reliable active duty in many places around the world, the 02R, 01V, DM2000, PM1D, M7CL and LS9 - along with Yamaha's Mini YGDAI open I/O support - became standard workhorses for the community of sound engineers.

From 2008 onwards audio networking was added, resulting in the TF, QL, CL, DM and RIVAGE PM SERIES, with I/O infrastructures fully based on audio networking. As soon as the iPad was released in 2013, StageMix and MonitorMix apps have set the standard for wireless tablet software control, later joined by the ProVisionaire suite of freely-configurable user interface software. The most recent development is the support for immersive, object-based mixing by QL, CL and RIVAGE PM series.









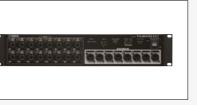
DETAILS AND/OR OPTIONAL ACCESSORIES





19" MOUNT RAILS

DM3 BACK PANEL





TIO1608-D DANTE I/O RACK

DZR SERIES DANTE POWERED SPEAKERS

DO MORE

The word "compact" is often associated with limitations, and in the sound reinforcement world, often implies compromises in functionality, connectivity, or sound quality, and sometimes all three. Until now choosing a compact console has almost invariably been a matter of what you're willing to sacrifice to get the capabilities you need in the space you have. The new DM3 SERIES of mixing consoles shatters this stereotype, offering superb sound quality, fast and easy setup and operation, and professional-level features for live sound, streaming, and live or home recording and music production-a combination unmatched in any other mixing console this size. In an ever-changing world that constantly presents new challenges as well as opportunities, DM3 mixing consoles give you the power and flexibility to do more with than you ever imagined with a compact digital console.

QUICK SPECIFICATIONS

	DM3	DM			
NR. OF FADERS / SCREEN	8 input + 1 master + 9)" multi-touc			
INPUT MIXING CHANNELS	16 mono, 1 stereo, 2 FX retu				
MIX BUSSES	1 stereo, 6 Mix	, 2 FX, 2 Mat			
ANALOGUE I/O	16 Mic/Line (12 XLR +	4 XLR/TRS),			
DANTE I/O	16/16				
USB I/O	18,	/18			
FX / GEQ	2 FX, 6 mix GEQ, 1	stereo maste			
SAMPLING RATE	96kHz ,	/ 48kHz			
DIMENSIONS (WXHXD)	320 mm x 140	mm x 455 m			
WEIGHT	6.5	kg			

KEY FEATURES

- 8 + 1 FADER + 9-INCH MULTI-TOUCH SCREEN
- INPUT MIXING CHANNELS: 16 MONO + 1 STEREO + 2 FX RETURN
- BUSSES: 1 STEREO, 6 MIX, 2 FX, 2 MATRIX (SUPPORTS INPUT TO MATRIX)
- LOCAL I/O: 16 MIC/LINE (12 XLR + 4 XLR/TRS PHONES COMBO) INPUTS, AND 8 (XLR) OUTPUTS
- DANTE: 16 INPUTS, AND 16 OUTPUTS (DM3 MODEL ONLY)
- USB: 18 INPUTS, AND 18 OUTPUTS
- GEQ ON MIX 1-6 AND STEREO CHANNELS, 2 FX, VST RACK BUNDLED

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DM3 STANDARD BACK PANEL



VST RACK

M3 STANDARD

uch screen

turn

atrix

, 8 out XLR

ter GEQ



TF SERIES

DIGITAL MIXERS



DESIGN MEETS INTUITION

Yamaha has always made it a mission to stay in touch with the needs of sound engineers worldwide. The outcome is evident in the success of the recent CL and QL series digital mixing consoles, and the flagship RIVAGE PM10. The key to success has always been in supporting the user's creativity. Creativity is most effective when unrestricted, and now Yamaha has created a new digital mixing console that gives the user's intuition even freer rein. TouchFlow Operation™ introduced in the TF SERIES consoles allows the user to respond to the music and artists on stage with unprecedented speed and freedom, taking live sound reinforcement to a new level of refinement. With the TouchFlow Operation interface optimized for touch panel control, experienced engineers as well as newcomers to the field will find it easier than ever to achieve the ideal mix. Recallable D-PRE™ preamplifiers support sound quality that will satisfy the most discerning professional ears, while advanced live recording features and seamless operation with high-performance I/O racks give these compact digital mixers capabilities that make them outstanding choices for a wide range of applications. Experience the intuitive control and creative freedom that a truly evolved digital console can provide.

KEY FEATURES

- INTUITIVE USER INTERFACE OPTIMIZED FOR TOUCH PANEL OPERATION
- INTUITIVE FEATURES FOR SMOOTH SETUP AND OPERATION
- PRACTICAL PRESETS AND SCENES SHORTCUTS TO GREAT SOUND
- DESIGN FOR SUPERIOR VISIBILITY AND QUICK OPERATION
- A NATURAL SOUND FOUNDATION WITH EXTRA CREATIVE FREEDOM
- SOFTWARE APPLICATIONS THAT WORK SEAMLESSLY WITH THE CONSOLE

DETAILS



TF5 REAR PANEL





TOUCH OPERATION FOR INTIMATE CONTROL

1-KNOB COMP™ & 1-KNOB EQ™

QUICK SPECIFICATIONS

	TF1	TF3	TF5	TF-RACK
MONO CHANNELS	32	40	40	32
STEREO CHANNELS	2 + 2 FX returns			
MIX BUSSES	20 (8 mono + 6 stereo)			
MATRIX	4 mono	4 mono	4 mono	4 mono
LOCAL IN	16 M/L + 2 stereo RCA	24 M/L + 2 stereo RCA	32 M/L + 2 stereo RCA	16 M/L + 1 stereo RCA
LOCAL OUT	16 XLR outputs	16 XLR outputs	16 XLR outputs	8 XLR + 8 TRS outputs
DANTE I/O (OPTIONAL)	64ch i/o NY card			
FADER CONFIG	16+1	24+1	32+1	Virtual faders
DCA GROUPS	8 with roll-out	8 with roll-out	8 with roll-out	8 with roll-out
RECORDING	34x34 via USB2	34x34 via USB2	34x34 via USB2	34x34 via USB2



TF-RACK REAR PANEL



DAN DUGAN AUTOMIXER



CL/QL SERIES



DETAILS



CL5 BACK PANEL





A COMPREHENSIVE RANGE OF PREMIUM FEFECTS

SEAMLESS INTEGRATION WITH NUENDO LIVE

THE STANDARDS STAY, BUT INNOVATION NEVER ENDS

The pursuit of perfection is ongoing and will probably never end, but along the way Yamaha has introduced a number of innovations that have become industry standards offering performance and familiarity that discerning users continue to demand. By definition, "standards" are best kept as they are. With evolutionary refinements, of course. Yamaha CL and QL series digital mixing consoles represent a new level of refinement. They offer an evolved experience in accessible mixing, plus sonic purity with sound shaping capabilities that will give the most imaginative engineer unprecedented creative freedom. Analogue and digital I/O infrastructure is based on a broad range of rack I/O components listed in the I/O section of this catalogue, with the QL series offering additional built-in analogue inputs and outputs. The CL and QL series embodies the leading standards in live sound in their most advanced, most expressive form.

QUICK SPECIFICATIONS

	CL1	CL3	CL5	QL1	QL5
MONO CHANNELS	48	64	72	32	64
STEREO CHANNELS	8	8	8	8	8
MIX BUSSES	24 Mix	24 Mix	24 Mix	16 Mix	16 Mix
MATRIX	8 Matrix	8 Matrix	8 Matrix	8 Matrix	8 Matrix
LOCAL I/O	8 in, 8 out	8 in, 8 out	8 in, 8 out	16 in, 8 out	32 in, 16 out
DANTE I/O	64 in, 64 out	64 in, 64 out	64 in, 64 out	32 in, 32 out	64 in, 64 out
FADER CONFIG	8+8+2	16+8+2	16+8+8+2	16+2	32+2
DCA GROUPS	16 with roll-out				
GEQ/FX/PREMIUMFX	32/16/16	32/16/16	32/16/16	16/16/16	16/16/16
GPI	5 in, 5 out				

KEY FEATURES

- CREATING THE IDEAL NATURAL SOUND PLATFORM
- CENTRALOGIC AT THE HEART OF AN EVOLVED INTERFACE
- **FLEXIBLE NETWORKING THROUGH THE USE OF DANTE**
- HIGHLY EXPANDABLE AND ADAPTABLE
- **SEAMLESS INTEGRATION WITH NUENDO LIVE**
- SOFTWARE APPLICATIONS THAT WORK SEAMLESSLY WITH THE CONSOLE



CL, QL STAGEMIX (IPAD)



CL, QL EDITOR (WIN, MAC)



MONITORMIX (IPHONE, ANDROID)



CONSOLE FILE CONVERTOR (WIN/MAC)



CL5 WITH DANTE RACK I/O





PREMIUM RACK



LIVE SR

DM7 SERIES

DIGITAL MIXING CONSOLE





GO ABOVE AND BEYOND

More than 30 years since the release of Yamaha's first digital mixer, the DMP7, the landscape of professional audio has seen a steady progression in technological advancements and innovations that have impacted mixing and recording styles significantly.

DM7 SERIES mixing consoles represent a sizable step forward in this evolution of form, functionality, and flexibility with their intuitive UI, compact design, and comprehensive suite of powerful features that allow them to outperform other mixers in their class in an impressive range of audio environments. From broadcasting, streaming, and music production, to live hybrid events and concert performances, the advanced capabilities of the DM7 series set a new standard in operability and workflow while simultaneously staying true to Yamaha's sonic tradition of "natural sound". As the times continue to change, your DM7 will keep you ahead of the curve with a user experience that's a cut above anything in its class, and sonic performance well beyond the expectations of audiences and engineers alike.

The **DM7 SERIES** is an innovative digital mixer lineup that not only guarantees unparalleled sound quality, ease of operation, and high reliability to connect engineers, artists, and audiences, but is also highly scalable and flexible enough to adapt according to application. A DM7 setup can take on a variety of configurations depending on the engineer's preferences and can support a wide range of sonic environments.

KEY FEATURES

- 120 (DM7) / 72 (DM COMPACT) MIXING CHANNELS
- **48 MIX + 12 MATRIX + 2 STEREO**
- 2X12.1" / 1X12.1" (DM7 COMPACT) MULTI-TOUCH SCREEN, 7" MULTI-TOUCH SCREEN
- **28 (DM7) / 16 (DM7 COMPACT) FADERS**
- DANTE: 144 IN / 144 OUT

SOFTWARE PACKAGES

DEK-DM7-TH THEATRE PACKAGE

- 4 BANK EQ/DYN
- ACTOR LIBRARY
- DCA PRESET
- DCA SCENE GRID
- MIDI OUTPUT EVENT ON SCENE
- AFC IMAGE CONTROL (FUTURE UPDATE)

DEK-DM7-BR BROADCAST PACKAGE

- MIX MINUS
- FADER CUE RELEASE
- BACK STOP PFL
- AUDIO FOLLOW VIDEO
- SOURCE SELECTION MIX MODE
- LOUDNESS METER
- PEAK PROGRAM METERS (PPM)
- 5.1 SURROUND (FUTURE UPDATE)
- ANALOG I/O: 32 (DM7) / 16 (DM7 COMPACT) INPUTS, 16 OUTPUTS
- PY SLOT FOR MADI, AES/EBU AND MIDI/GPI
- USB AUDIO INTERFACE: 18 IN / 18 OUT
- REDUNDANT POWER SUPPLY BUILT-IN
- DM7 CONTROL BAY FOR ADVANCED CONTROL FUNCTIONS

DETAILS AND/OR OPTIONAL ACCESSORIES





PY64-MADI

PY8-AE





DEK-DM7-BR BROADCAST PACKAGE

DEK-DM7-TH THEATRE PACKAGE

QUICK SPECIFICATIONS

	DM7	
NR. OF FADERS	24+4	
TOUCH SCREENS	2 x 12.1" + 1 x 7"	
INPUT MIXING CHANNELS	120	
MIX BUSSES	48 mix, 12 matrices, 2 stereo	48
ANALOGUE I/O	32 inputs, 16 outputs	
DANTE & USB I/O	144/144 Dani	te, 18/18
FX / GEQ	64 Premium, 1	6 FX, 32
SAMPLING RATE	up to S	96kHz
DIMENSIONS (WXHXD)	793 mm x 324 mm x 564 mm	468
WEIGHT	23.5 kg	





DM7 CONTROL ADD-ON





DM7 SERIES



DM7 FRONT PANEL



DM7 REAR PANEL



DM7 COMPACT FRONT PANEL



DM7 COMPACT REAR PANEL





DM7 CONTROL FRONT PANEL



DM7 CONTROL REAR PANEL



Т

CONFERENCE



DETAILS





BRICASTI Y7





OVERLAY

DEVICE CONTROL

PERFECTING THE ART OF LIVE SOUND

All art, including art that involves sound and music, is expression that has an impact on the viewer or listener. It often begins with the artist's personal journey of self-discovery that sometimes grows and ripples outward in waves that resonate with people everywhere. Yamaha supports the engineers who support artists and performers in their quest to make waves, carrying their vision to a wider audience.

The RIVAGE PM SERIES includes five consoles, two DSP engines, two I/O rack units, and two network protocols. Any of these components can be combined to create systems that match a wide range of application scale and budget requirements. All five consoles feature a similar interface with up to three bays of 12 faders each, touch-sensitive display panels, and the Yamaha Selected Channel Section. Engineers who are familiar with one RIVAGE PM console can easily switch to any other and be up and running in a matter of minutes. All RIVAGE PM system components are compatible, and components from earlier systems will work in combination with later systems. That goes for I/O racks as well as DSP engines, so in addition to operating them separately you can combine DSP engines in mirrored configurations for large applications, for example.

RIVAGE PM EDITOR (WIN, MAC)





stageMix



nitoriyiix



MONITORMIX (iPhone, ANDROID)



CONSOLE FILE CONVERTOR (WIN, MAC)

QUICK SPECIFICATIONS

	PM3	PM5	PM7	PM10
MIXING CHANNELS	up to 288	up to 288	144	up to 288
MIX BUSSES	up to 72	up to 72	60	up to 72
MATRIX	up to 36	up to 36	36	up to 36
LOCAL ANALOGUE I/O	8/8	8/8	8 (silk)/8	8 (silk)/8
LOCAL AES/EBU I/O	-	2/2	4/4	4/4
HY SLOTS	4 on DSP	4 on DSP	3 on CS	4 on DSP
MY SLOTS	2 on DSP 2 on CS	2 on DSP 2 on CS	2 on CS	2 on DSP 2 on CS
FADER CONFIG	3 x 12 + 2	3 x 12 + 2	3 x 12 + 2	CS-R10: 3 x 12 + 2 CS-R10-S: 2 x 12 + 2
TOUCH SCREENS	1 x 15"	3 x 15"	2 x 15"	CS-R10: 2 x 15" CS-R10-S: 1 x 15"
PLUG-IN / GEQ	up to 512 / 96	up to 512 / 96	384 / 96	up to 512 / 96
SUPPORTED DSP ENGINES	DSP-R10 DSP-RX (-EX)	DSP-R10 DSP-RX (-EX)	internal	DSP-R10 DSP-RX (-EX)

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KEY FEATURES

MODULARITY

EXCEPTIONAL HIGH AUDIO QUALITY

EXTRAORDINAIRY SELECTION OF PLUG-INS

EASY-REACH LAYOUT AND COMFORTABLE SIGHT LINE

■ REFINED USER-INTERFACE CONSISTENT THROUGH THE WHOLE LINE-UP

SOFTWARE APPLICATIONS THAT WORK SEAMLESSLY WITH THE CONSOLE

DaNSe PLUG-IN



P2MB (PORTICO II MASTER BUSS PROCESSOR)



SURROUND MONITORING

COLUMN	



BROADCAST

LIVE SR

CONTROL SURFACES



CS-R10



CS-R5



CS-R10-S



CS-R3

RIVAGE PM I/O RACKS



RIVAGE PM I/O CARDS





MADI

DANTE I/O RACKS



Dante Rio3224-D2

△Dante[™] Rio1608-D2

MIXING CONSOLE



DSP ENGINES



DSP-RX



DSP-RX-EX

150



RPio222

RIVAGE PM I/O RACK CARDS







RY16-ML-SILK



RY16-DA

RY16-AE



FOR A FULL OVERVIEW OF COMPATIBLE DANTE I/O COMPONENTS SEE PAGE PAGE 178 FOR A FULL OVERVIEW OF COMPATIBLE MY CARDS SEE PAGE PAGE 180



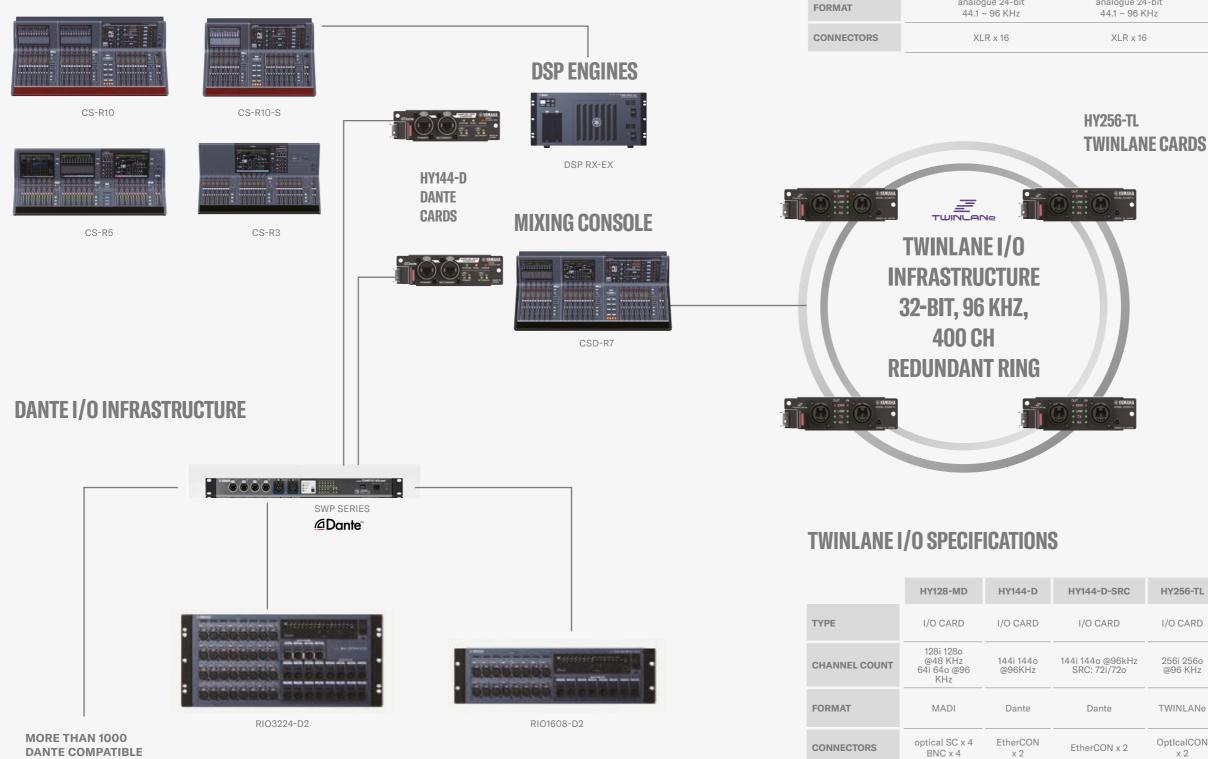
ROADCAST	
RUADCASI	

CONFERENCE

RIVAGE PM SYSTEM DANTE / TWINLANE NETWORK TOPOLOGY EXAMPLE

LIVE SR

CONTROL SURFACES



DANTE COMPATIBLE **I/O DEVICES**

RY16-DA	RY16-AE
LINE OUT	AES/EBU
16 OUTPUTS	16 INPUTS / 16 OUTPUTS
analogue 24-bit 44.1 ~ 96 KHz	AES3 with SRC 44.1 ~ 96 KHz
XLR x 16	XLR x 16

RY16-ML-SILK

MIC/LINE WITH RND SILK EMULA-TION

16 INPUTS

analogue 24-bit

TYPE

CHANNEL COUNT

•	000	•
i n		

RPio622



RPio222

HY256-TL	Y256-TL HY256-TL-SMF RPIO622		RPIO222
I/O CARD	I/O CARD	I/O RACK	I/O RACK
256i 256o @96 KHz	256i 256o @96 KHz	96 RY @96 KHz 32 MY	32 RY @96 KHz 32 MY
TWINLANe	TWINLANe	6 RY SLOTS 2 MY SLOTS 2 HY SLOTS	2 RY SLOTS 2 MY SLOTS 2 HY SLOTS
OpticalCON x 2	OpticalCON x 2	RY CARD x 6	RY CARD x 2



SOFTWARE FOR MIXING CONSOLES







MIXING SOFTWARE

Off-line and on-line software for mixing consoles support efficient and effective worlkflows, something Yamaha recognised already with the first mixer support software packages such as the DMC1000 project manager software launched in 1995. Both mixing consoles and supporting software have evolved to the networked era: all connections are based on Ethernet, while a high degree of integration is supported with the ProVisionaire graphic user interface environment, allowing for a variety of mixing consoles, DSP engines, i/o infrastructure, power amplifiers, AV components and even acoustic enhancement systems to be monitored and controlled on a single computer screen or tablet, supporting multiple users working in parrallel in the same system.

NETWORKED MIXING CONSOLE SOFTWARE COMPATIBILITY

	OPERATING SYSTEM	DM3	TF	QL	CL	DM7	RIVAGE PM
RIVAGE PM EDITOR	Windows, Mac	-	-	-	-	-	yes
CL EDITOR	Windows, Mac	-	-	-	yes	-	-
QL EDITOR	Windows, Mac	-	-	yes	-	-	-
DM7 EDITOR	Windows, Mac	-	-	-	-	yes	-
DM3 EDITOR	Windows, Mac	yes	-	-	-	-	-
TF EDITOR	Windows, Mac	-	yes	-	-	-	-
RIVAGE PM STAGEMIX	iPad iOS	-	-	-	-	-	yes
CL STAGEMIX	iPad iOS	-	-	-	yes	-	-
QL STAGEMIX	iPad iOS	-	-	yes	-	-	-
DM7 STAGEMIX	iPad iOS	-	-	-	-	yes	-
DM3 STAGEMIX	iPad iOS	yes	-	-	-	-	-
TF STAGEMIX	iPad iOS	-	yes	-	-	-	-
MONITORMIX	iPad iOS, Android	yes	yes	yes	yes	yes	yes
CONSOLE FILE CONVERTOR	Windows, Mac	-	-	yes	yes	-	yes
PROVISIONAIRE CONTROL	Windows	yes	yes	yes	yes	yes	yes
PROVISIONAIRE TOUCH	iPad iOS	yes	yes	yes	yes	yes	yes

AVAILABLE SOFTWARE AND APPS

- WINDOWS 10 SOFTWARE: PROVISIONAIRE CONTROL, CONSOLE FILE CONVERTER
- WINDOWS 10 AND OSX SOFTWARE: EDITORS FOR RIVAGE PM, DM, CL, QL, TF
- IPAD APP: PROVISONAIRE TOUCH, STAGEMIX FOR RIVAGE PM, DM, CL, QL, TF
- IPHONE APP: MONITORMIX
- WINDOWS & MACOS SOFTWARE: FREE OF CHARGE DOWNLOAD ON EUROPE.YAMAHA.COM
- IOS APPS: FREE OF CHARGE DOWNLOAD FROM THE APP STORE (C)

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MONITORMIX



SPECIFICATIONS DIGITAL MIXERS

			DIGITAL	MIXING CONSOLE
			DM3	DM3S
MIXING CAPACITY		INPUTS	16 +	1 stereo + 2FX
		BUSES	6 mc	ono, 2FX, 1 Mtx
LOCAL I/O		ANALOGUE XLR-TRS IN / XLR OUT	10	3 in + 8 out
		ANALOGUE PHONO OUT		-
		ANALOGUE RCA IN		-
		DANTE	16in, 16 out	
		USB	PC/Mac U	JSB2.0: 18 in 18 out
		EXPANSION SLOTS		-
RACK I/O HA CONTROL COMPATIBILITY			Rio series, Tio series	S
CHANNEL FUNCTIONS		FILTERS / EQ / DYNAMICS	HPF / 4 band PEQ (LP	F, HPF) / 1 Gate + 1 Compresso
		DCA GROUPS		-
BUSS FUNCTIONS		EQ / DYNAMICS / DELAY	HPF / 4 band PEQ (LP	PF, HPF) / 1 Compressor / Delay
		FX ALGORITHMS		18
		GEQ		6
DUGAN				-
AUTOMATION		# SCENES		200
RECORDING		USB PLAY/REC	USB	drive: 2 tracks
USER INTERFACE		NUMBER OF FADERS		8+1
		SCREEN	1x9	" multitouch
CONTROL I/O		NETWORK	1 x RJ45	
		USB	1	x USB2.0
SOFTWARE		EDITOR	Editor, Stagemix, Monitormix	
		PROVISIONAIRE CONTROL	Yes	
ANALOG INPUT PHANTOM POWER				+48 V
SPECIFICATIONS	INPUT LOAD IMPEDANCE			10 kΩ
	INPUT GAIN MIC/LINE INPUTS		64	dB to 0 dB
		ST IN 1,2	-	
	INPUT LEVEL NOMINAL	MIC/LINE INPUTS	-60 dBu (Gain: +6	64 dB), +4 dBu (Gain: 0 dB)
		ST IN 1,2	-00 dbd (dain: 104 db), 14 dbd (dain: 0 db)	
	MAX INPUT LEVEL	MIC/LINE INPUTS	-40 dBu (Gain: +6	4 dB), +24 dBu (Gain: 0 dB)
	BEFORE CLIP	ST IN 1,2		-
ANALOG OUTPUT	OUTPUT SOURCE IMPEDA	,	75 Ω	
SPECIFICATIONS	OUTPUT LEVEL NOMINAL		+4 dBu	
	MAX OUTPUT LEVEL BEFOR	RECLIP	+4 dBu +24 dBu	
AUDIO SYSTEM	SAMPLING FREQUENCY RA			96 kHz
SPECIFICATIONS	A/D D/A CONVERTERS		24-bit linear 1	28 times over sampling
	SIGNAL DELAY		-	(AD-DA @96 kHz)
	TOTAL HARMONIC DISTORT	ELON .	_	(+4 dBu, Gain:0 dB
	FREQUENCY RESPONSE			kHz, +0.5 dB, -1.0 dB
DYNAMIC RANGE HUM & NOISE LEVEL			_	dB (Gain:0 dB)
			_	u (Gain: +64 dB)
		EQUIVALENT INPUT NOISE	120 UB	-100 dB
THEDMA	CROSSTALK		operational: 0	
	<u> </u>		-	40 °C, storage: -20 ~ 60 °C
POWER REQUIREMENTS			100-24	40 V (50/60 Hz)
POWER CONSUMPTION			000	43 W
DIMENSIONS W X H X D			320 x	140 x 455 mm 6,5 kg
WEIGHT				D D KO

	DIGITAL MIXING CONSOLE	
TF1	TF3	
32 + 2 FX + 2 Stereo	40 + 2FX + 2 St	eı
	8 mono, 6 ster	re
16 in + 16 out	24 in + 16 out	
-	-	
	2 stereo line	
	(optional through NY64	1-
	PC/Mac USB2.0:	3
	1NY (Dar	
	Rio series, Tio series	_
		3
	HPF / 4 band PEQ (LPF, HPF)	/
	8	
	4 band PEQ (LPF, HPF) / 1 Comp	ore
	20	
	10	
	8 channels, 2	2
	200, with recall sat	fe
	USB drive: 2	t t
16+1	24+1	
	1x8" mu	ult
	1 x RJ4	-5
	1 × USB:	2.
	Editor, Stagemix,	Ν
	Yes	
	+48 \	/
	Mic / line input: 7.5 kΩ),
	+66 dB to	-6
	-10 dB	V
	-62 dBu (Gain: +66 dB), +	10
	-10 dB	
	-42 dBu (Gain: +66 dB), +	
	+10 dB	V
	75 Ω	
	+4 dB	
	+24 dB	_
	48 kH	
	24-bit linear, 128 time	
	< 2.6 ms (AD-DA	
	< 0.05 % (+4 dBu, Gain:-6 dB), <	
	20 Hz to 20 kHz, +0).
10	7 dB (Input to Omni out, Gain:-6 dB)	
	-128 dBu (Gain	
	-100 d	_
	operational: 0 ~ 40 °C , s	-
	100-240 V 50	/כ
110 W	110 W	1
740 005 500	740 005 500	
716 x 225 x 599 mm	716 x 225 x 599 mm	
716 x 225 x 599 mm 17 kg	716 x 225 x 599 mm 17 kg Power Cord, Nu	

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	DIGITAL MIXER
TF5	TF-RACK
ereo	32 + 4 stereo
reo, 4 Mtx	
32 in + 16 out	16 in + 8 out
-	8 out
	1 stereo line
1-D card) 64i+64o	
24 in 24 out	
34 in 34 out	
nte)	
s (max. 3 units)	
/ 1 Gate + 1 Compressor	
	-
ressor / Delay (matrix only)	
2 groups	
fe & fade time	
tracks	
32+1	-
ılti	
5	
2.0	
Monitormix	
1	
, Stereo in: 10 kΩ	
-6 dB	
V	
10 dBu (Gain: -6 dB)	
V	
30 dBu (Gain: -6 dB)	
V	
u	
lu	
Z	
es over sampling	
A @48 kHz)	
0.1% (+4 dBu, Gain:+66 dB)	
0.5 dB, -1.5 dB	
	108 dB (Input to Omni out, Gain:-6 dB)
: +66 dB)	
В	
storage: -20 ~ 60 °C	
0/60 Hz	
120 W	85 W
866 x 225 x 599 mm	480 x 132 x 409 mm (5HU)
20 kg	9.2 kg
endo Live2	



NETWORKED MIXING CONSOLES

		QL1	QL5	CL1	CL3	CL5	
MIXING CAPACITY	INPUTS INTERNAL	32+8stereo	64+8stereo	48+8 stereo	64+8 stereo	72+8stereo	
	DSP-R10		-		-		
	DSP-RX		-	-			
	DSP-RX-EX		-		-		
	OUTPUTS ¹ INTERNAL	16Mix	+8Mtx		24Mix+8Mtx		
	DSP-R10		-		-		
	DSP-RX		-		-		
	DSP-RX-EX		-		-		
LOCAL I/O	ANALOGUE	16 in + 8 out	32 in + 16 out		8 in +8 out		
	AES	1 (out		1 out		
	DANTE	32i + 32o	64i + 64o		64i + 64o		
SLOT I/O	HY SLOTS		-		-		
	MY/NY SLOTS	21	ИY		3MY		
RACK I/O HA CON- TROL COMPATIBILITY		Rio series	, Tio series	I	Rio series, Tio serie	S	
CHANNEL FUNCTIONS	FILTERS	Н	PF		HPF		
	EQ	4 band PEQ (LPF,	HPF), 4 algorithms	4 band P	PEQ (LPF, HPF), 4 a	lgorithms	
	DYNAMICS	2 Dynamics	4 algorithms	2 [Dynamics 4 algorith	nms	
	DELAY	Yes, 10	000ms		Yes, 1000ms		
	INSERTS	1 point w	ith 2 slots		1 point with 2 slots	;	
BUSS FUNCTIONS	EQ	4 band PEQ,	4 algorithms	4 band PEQ, 4 algorithms			
	DYNAMICS	4 algo	4 algorithms		4 algorithms		
	DELAY	Yes, 1000ms		Yes, 1000ms			
	INSERTS		h with 2 slots	2 points each with 2 slots			
PLUGINS	CAPACITY	16+10	6VCM	16+16VCM			
	# ALGORITHMS	5	52	52			
GEQ		1	6	32			
DUGAN		8 or 16 chan	nels, 3 groups	8 or 16 channels, 3 groups			
AUTOMATION	# SCENES	3	00		300		
	RECALL SAFE	Y	Yes		Yes		
	FOCUS RECALL	Y	es	Yes			
	FADE TIME	Y	es	Yes			
	PREVIEW	Y	es		Yes		
	OVERLAY		-		-		
	PARAMETER SET		-	-			
	EVENT LIST		-		-		
RECORDING	DVS / VIRTUAL SOUNDCHECK	Yes	/ Yes		Yes / Yes		
	USB PLAY/REC	Yes	(mp3)		Yes (mp3)		
BROADCAST		5.1 panning, Surr Mix I	ound monitoring, Vinus	5.1 panning,	Surround monitorir	ng, Mix Minus	
OTHER FUNCIONS	PORT TO PORT ROUTING		-		-		
	PORT LABELLING		-		-		
	THEATRE MODE		-		-		
	DSP MIRROR		-		-		
	DUAL CONSOLE MODE		-		-		
USER INTERFACE	NUMBER FADERS	16+2	32+2	8+8+2	16+8+2	16+8+8+2	
	NUMBERS SCREENS	1x	10"		1x10"		
SOFTWARE	EDITOR	Editor, Stagen	nix, Monitormix	Edito	or, Stagemix, Monit	ormix	
	CONSOLE FILE CONVERTOR	-	es		Yes		
	PROVISIONAIRE CONTROL		es		Yes		
DIMENSIONS	WXHXD (MM)	468x272x562	828x272x563	648x299x667	839x299x667	1053x299x66	
	,					000000	

72 120 48Mix + 12Mtx + 2 Stereo 32 in + 16 out 16 in + 16 2 in + 2 out 1 out 144 +144 1PY Rio series, Tio series HPF 4 band PEQ (LPF, HPF), 4 algorythms 2 dynamics, 8 algorythms Yes, 1000ms 1 point each with 4 slots 8 band PEQ, 4 algorythms 8 algorythms Yes, 1000ms 1 point each with 4 slots 16 + 64 VCM 64 32 64 channels, 5 groups 500 Yes Yes Yes Future Update Yes / Yes Yes (wav, mp3) Through DEK-DM7-BR Package Through DEK-DM7-TH Package 24 + 4 12 + 4 2 x 12,1" + 1 x 7,0" 1 x 12,1" + 1 Editor, Stagemix, Monitormix Yes Yes 793x324x564 468x324 23,5 16,5

DM7

Notes: 1) Input channel to Mtx supported

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DM7C	DM7 CONTROL
72	-
-	
-	
-	
	-
-	
-	
-	
in + 16 out	-
1 out	-
	-
-	
	-
	-
	-
12 + 4	2
2,1" + 1 x 7,0"	-
8x324x564	191x323x562
16,5	7



NETWORKED MIXING CONSOLES

			PM3	PM5	PM7	PM10	PM10S		
MIXING CAPACITY	INPUTS	INTERNAL	-	-	144	-	-		
		DSP-R10	144	144	-	144	144		
		DSP-RX	120	120	-	120	120		
		DSP-RX-EX	288	288	-	288	288		
	OUTPUTS ¹	INTERNAL	-		60Mix + 36Mtx		-		
		DSP-R10	72Mix + 36Mtx	72Mix + 36Mtx	-	72Mix + 36Mtx	72Mix + 36Mtx		
		DSP-RX	60Mix + 24Mtx	60Mix + 24Mtx	_	60Mix + 24Mtx	60Mix + 24Mt		
		DSP-RX-EX	72Mix + 36Mtx	72Mix + 36Mtx		72Mix + 36Mtx	72Mix + 36Mtx		
LOCAL I/O	ANALOGUE	DOI TOX EX	8 in + 8 out	8 in + 8 out	8 in (Silk) + 8 out	8 in (Silk) + 8 out	8 in (Silk) + 8 ou		
LOOKLIJO	AES		-	2 in + 2 out	4 in + 4 out	4 in + 4 out	4 in + 4 out		
	DANTE		-	-	-	-	-		
SLOT I/O	HY SLOTS		4 on DSP	4 on DSP	3 on CS	4 on DSP	4 on DSP		
51011/0	MY/NY SLOTS	3		2, 2MY on CS	2MY on CS		P, 2MY on CS		
RACK I/O HA CON-		5	21011 011 031		eries, Rio series, Tic		, 21011 011 03		
TROL COMPATIBILITY	FILTERS			. <u></u>	HPF + LPF				
FUNCTIONS									
	EQ			4 k	pand PEQ, 4 algorith	ims			
	DYNAMICS		2 Dynamics, 6 algorithms						
	DELAY		Yes, 1000ms						
	INSERTS			2 p	points with each 4 sl	ots			
BUSS FUNCTIONS	EQ		8 band PEQ, 4 algorithms						
		DYNAMICS			6 algorithms				
		DELAY			Yes, 1000ms				
		INSERTS		2 p	ooints each with 4 s	ots			
PLUGINS	CAPACITY		384 (DSP-R10/RX)), 512 (DSP-RX-EX)	384	384 (DSP-R10/RX), 512 (DSP-RX-E		
		# ALGORITHMS			>50				
GEQ					96				
DUGAN				32 c	or 64 channels, 5 gro	oups			
AUTOMATION	# SCENES				1000				
	RECALL SAFE	Ξ			Yes				
	FOCUS RECA	LL	Yes						
	FADE TIME		Yes						
	PREVIEW		Yes						
	OVERLAY		Yes						
	PARAMETER	SET	Yes						
	EVENT LIST			Yes					
RECORDING	DVS / VIRTUA	L SOUNDCHECK			Yes / Yes				
	USB PLAY/RE	C			Yes (wav, mp3)				
BROADCAST				5.1 panning,	Surround monitorin	g, Mix Minus			
OTHER FUNCIONS	PORT TO POR	RT ROUTING			Yes				
	PORT LABELI	LING	Yes						
	THEATRE MO	DE			Yes				
	DSP MIRROR		Yes	Yes	No	Yes	Yes		
	DUAL CONSC	DLE MODE			Yes				
USER INTERFACE	NUMBER FAD	DERS	12+12+12+2	12+12+12+2	12+12+12+2	12+12+12+2	12+12+2		
	NUMBERS SC	CREENS	1 x 15" Multi	3 x 15" Multi	2 x 15"	2 x 15"	1 x 15"		
SOFTWARE	EDITOR			1	or, Stagemix, Monito	1			
	CONSOLE FIL	LE CONVERTOR			Yes				
					No				
	PROVISIONAL	IRECONTROL							
DIMENSIONS	WXHXD (MM)		1145x385x650	1444x414x643	1549x417x848	1549x417x848	1128x417x848		

NETWORKED MIXING

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3

Notes: 1) Input channel to Mtx supported

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DANTE AUDIO I/O INFRASTRUCTURE

DANTE AUDIO NETWORKING BACKBONE

Yamaha is the world's leading adopter of Audinate's Dante audio network protocol, implementing Dante in all of its professional audio product ranges. Mixing consoles, digital signal processors, microphone preamps, power amplifiers... all come with the well-known RJ45 Dante connectors. Legacy digital I/O is supported through MY slots on Dante-enabled consoles, processors and dedicated legacy units, accepting a library of over 40 interface cards. Yamaha also manufactures a broad range of Dante-optimized Ethernet switches, guaranteeing flawless, problem-free audio and control networking, no matter how small or how large the network is.



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e	®YAMAHA	<u>(ब्र</u> ज)	WORD CLOCK	ROUTING			POWER	
3			DANTE	0		@Dante		•
	====							

ANALOGUE RACK I/O SERIES



BROADCAST

LIVE SR

CONFERENCE

TOURING NETWORK SWITCHES



DANTE READY SWITCHES WITH VISUAL NETWORK MONITORING

Yamaha Pro Audio is known around the globe as a provider of innovative, top-quality solutions for the sound industry. The Yamaha lineup includes a number of world-standard mixing consoles, signal processors incorporating industry-leading DSP technology, power amplifiers based on energy-efficient drive technology, and an extensive range of speakers suitable for everything from live sound to commercial installations. Yamaha entered the router business in 1995, and has grown to hold a significant share of Japan's small to medium enterprise and SOHO network market. Yamaha gigabit L2 switches that could be linked to Yamaha routers/firewalls were introduced in 2011, with features that significantly reduced the network setup, maintenance, and management workload.

The SWP and SWR series network switches are a solution the pro audio market has been waiting for, offering an ideal a balance of IT and pro audio know-how that only Yamaha could provide. All switches have been designed specifically for sound installation and live sound networking, with simple DIP switch Dante optimization and comprehensive graphical interfacing via the LAN monitor computer application, providing clear visual system status monitoring that makes Dante system setup easy.

KEY FEATURES

- RISK FREE AUDIO NETWORKING: GUARANTEED TO WORK WITH DANTE
- FULL FEATURED LAYER 2 MANAGED SWITCHES
- EASY FRONT PANEL PRESET SELECTION
- PROPRIETARY HARDWARE BY YAMAHA
- LAN MONITOR SOFTWARE FOR TOTAL CONTROL



LAN MONITOR

DETAILS





QUICK SPECIFICATIONS

SWP SERIES TOURING SWITCHES

	SWP1-8	SWP1-16MMF	SWP1-8MMF	SWP2-10MMF	SWP2-10SMF
FRONT OPTICAL	-	1 MMF	1 MMF	2 MMF	2 SMF
FRONT ETHERCON	4	4	4	4	4
REAR ETHERCON	4	8	4	6	6
REAR RJ45	-	4	-	-	-
FRONT OPTIONAL OPTICAL MODULE SLOT	2	1	1	-	-
RADIUS SERVER	-	-	-	yes	yes
DANTE PRESET BY DIP SWITCHES	4	4	4	4	4
RACK SIZE	1U	1U	1U	1U	1U

144

22



PA700 REDUNDANT POWER SUPPLY FOR SWP1, SWP2, AND RSIO64-D





MMF-SWP1 MULTIMODE OPTICALCON KIT



INSTALLATION NETWORK SWITCHES

CONFERENCE



SWX SERIES



SWR2100P SERIES

SWR2311P-10G

DETAILS





SWR RACK MOUNT RK-SWR

SWR WALL MOUNT WK-SWR





SWR & SWX SERIES OPTICAL SFP+ MODULES (10GB) SFP-SWRT-LR: MULTIMODE. DUAL LC SFP-SWRT-SR: SINGLEMODE, DUAL LC



SWR2310 AND SWX SERIES DIRECT ATTACH CABLES, 10GBPS DAC-SWRT-1M: 1 METER DAC-SWRT-3M: 3 METER

DANTE READY SWITCHES WITH VISUAL NETWORK MONITORING

Yamaha Pro Audio is known around the globe as a provider of innovative, top-quality solutions for the sound industry. The Yamaha lineup includes a number of world-standard mixing consoles, signal processors incorporating industry-leading DSP technology, power amplifiers based on energy-efficient drive technology, and an extensive range of speakers suitable for everything from live sound to commercial installations. Yamaha entered the router business in 1995, and has grown to hold a significant share of Japan's small to medium enterprise and SOHO network market. Yamaha gigabit L2 switches that could be linked to Yamaha routers/firewalls were introduced in 2011, with features that significantly reduced the network setup, maintenance, and management workload.

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KEY FEATURES

- RISK FREE AUDIO NETWORKING: GUARANTEED TO WORK WITH DANTE
- ROCK SOLID PROPRIETARY HARDWARE & SOFTWARE MADE FOR AUDIO
- SWR2311P-10G POE MANAGED INSTALLATION SWITCH
- SWR2100P SERIES POE L2 UNMANAGED INSTALLATION SWITCH
- SWR2310 SERIES L2 MANAGED INSTALLATION SWITCHES
- SWX SERIES L2 & L3 MANAGED INSTALLATION SWITCHES / ROUTERS
- LAN MONITOR SOFTWARE FOR TOTAL CONTROL



LAN MONITOR

OUICK SPECIFICATIONS

	SWR2100P- 5G	SWR2100P- 10G	SWR2311P- 10G	SWR2310- 10G	SWR2310- 18GT	SWR2310- 28GT	SWX2320- 16MT	SWX3220- 16MT
MANAGEMENT LAYER	-	-	L2	L2	L2	L2	L2	L3
RJ-45 10G/5G/2.5G/1G/100M	-	-	-	-	-	-	12	12
RJ-45 1G/100M	5	10	10	8	16	24	-	-
SFP SLOT (1GB) IEEE 802.3Z	-	-	2 (combi)	2	-	-	-	-
SFP+ SLOT (10GB) IEEE 802.3Z, IEE802.3AE	-	-	-	-	2	4	4	4
RADIUS SERVER	-	-	yes	yes	yes	yes	yes	yes
FRONT PANEL CONFIGURATION DIP SWITCHES	5	5	-	-	-	-	-	-
PORT POE	1-4 PoE+	1-9 PoE+	-	-	-	-	-	-
MONITORING SD CARD SLOT	-	-	1	1	1	1	1	1
RACK SIZE (REQUIRES OPTIONAL RK-SWR)	1U (1/2 width)	1U (1/2 width)	1U (1/2 width)	1U	1U (rack ears included)	1U (rack ears included)	1U (rack ears included)	1U (rack ears included)



SWR & SWX SERIES **OPTICAL SFP MODULES (1GB)** SFP-SWRG-SX: MULTIMODE, DUAL LC SFP-SWRT-LX: SINGLEMODE, DUAL LC

S YAMAHA SWR2310-10G	Adversionly the figure Light
Income . under . Under under	- DIANG - MEDIANG - HAR
anna fanim * Chait te uitrigt if hey an omet, anna te "Oc" tutte. Inne optimization Inne optimization Inne optimization and the Control of th	
Di dinjing tengenge	Text OK

ONE-CLICK DANTE OPTIMIZATION



DANTE ANALOGUE RACK I/O



R SERIES 2ND-GENERATION

CONFERENCE



Tio1608-D



RUIO16-D

DETAILS





RIO3224-D2 BACK PANEL







RUIO16-D FRONT PANEL

RUIO16-D BACK PANEL



In the past decade, sound reinforcement has evolved to modular, networked and integrated systems, replacing inefficient and expensive analogue and digital cabling with reliable and intrinsicly redundant network infrastructures. Offering not just a more efficient way of connecting audio equipment, but also avoiding cable induced signal degradation, including rock solid audio synchronisation methods making 'workdlock issues' a thing of the past. Yamaha's Rack-I/O components are the result of more than 3 decennia of research and development, starting with the first analogue input stages of the DMP and DMC series digital consoles, evolving to a series of networked products that are widely recognised as the benchmark in today's premium quality A/D convertor and head-amp designs.

Yamaha's Rack-I/O series are true integrated components, delivering pristine analogue mic/line inputs and line outputs to any Dante based audio system - no matter if it's just a few or a few hundred. Controllability is assured, with full head amp control and gain compensation over the network, supported by the full line-up of digital mixing consoles and DSP engines, as well as by Yamaha's ProVisionaire graphic user interface software environment.

OUICK SPECIFICATIONS

	RIO3224-D2	RI01608-D2	RUIO16-D	TIO1608-D
DANTE CONNECTORS	EtherCon x 2	EtherCon x 2	EtherCON x 2	EtherCon x 2
HA INPUTS	XLR x 32	XLR x 16	XLR x 2	Combi XLR x 16
LINE OUTPUTS	XLR x 16	XLR x 8	XLR x 2	XLR x 8
AES/EBU OUTPUTS	XLR x 4 (8ch)	-	-	-
FRONT PANEL CONTROL	yes	yes	yes	-
RACK SIZE	5U	3U	1/2 U	2U
FS	44.1 KHz - 96 KHz	44.1 KHz - 96 KHz	44.1 KHz - 96 KHz	44.1 KHz - 48 KHz
DUAL POWER SUPPLY	yes	yes	no	-

KEY FEATURES

- **EXCEPTIONAL HIGH AUDIO QUALITY**
- 96KHZ SUPPORT (R SERIES, R SERIES 2ND-GENERATION, RUIO1608-D)
- DUAL POWER SUPPLY (R SERIES 2ND-GENERATION)
- INTEGRATED HA CONTROL FROM NETWORKED MIXING CONSOLES
- INTEGRATED HA CONTROL FROM R-REMOTE AND PROVISIONAIRE SOFTWARE
- **TOURING GRADE CONSTRUCTION BUILT TO LAST**



PROVISIONAIRE CONTROL

2





TIO1608-D BACK PANEL



R-REMOTE SOFTWARE



|--|--|

CONFERENCE

LIVE SR

DANTE DIGITAL RACK I/O



DETAILS



RSIO64-D BACK PANEL



RMIO64-D BACK PANEL

PREMIUM QUALITY DIGITAL, NETWORKED

Although nowadays most of the world's audio systems are based on the Dante audio networking protocol, there is a huge pool of latest equipment that have to be integrated trough Dante networks. Utilizing Yamaha's more than 3 decades of experience with multi-format digital audio connectivity throiugh the 'Yamaha General Audio Interface' series of i/o cards, of which the lates generation is dubbed 'MY cards', the RSio64-D offers from MY slots to connect to any of the available formats through a library of more than 25 MY compatible interface cards - form Yamaha and from other manufacturers. Its built-in Sample Rate Convertor makes it even possible to connect legacy systems with different sample rates. The RMio64-D supports the legacy AES10 (MADI) standard.

QUICK SPECIFICATIONS

RMIO-64D	RSIO64-D
EtherCON x 2	EtherCON x 2
-	-
-	-
BNC & SC i/o up to 64ch	-
-	4 x MY16 type ttl. up to 64ch
44.1 KHz - 192 KHz	44.1 KHz - 96 KHz
yes	yes
1U	2U
-	yes
	EtherCON x 2 - - BNC & SC i/o up to 64ch - 44.1 KHz - 192 KHz yes

KEY FEATURES

- NETWORKED I/O MODULES FOR EASY CONNECTION TO LEGACY DIGITAL FORMATS
- DEDICATED MADI AND AES/EBU MODULES
- SAMPLE RATE CONVERSION TO INTEGRATE DIFFERENT SAMPLE RATE SYSTEMS
- UP TO 96KHZ SAMPLE RATE
- RSIO64-D SUPPORTS MORE THAN 25 LEGACY MY CARD TYPES
- LEGACY SYSTEM WORDCLOCK SUPPORT





AUDIO I/O CARDS



DETAILS





DANTE-MY16-AUD2





NY64-D (TF ONLY)

AIC128-D (AFC4 & PCI EXPRESS ONLY)

FLEXIBILITY FOR OPEN-ENDED GROWTH

A selection of more than 30 Mini-YGDAI ("MY") cards offers a comprehensive range of expanded I/O and processing capabilities for compatible Yamaha digital mixing consoles, processors, and power amplifiers. This efficient approach to expansion makes it easy and economical to integrate analog, digital, or network audio standards into systems of any scale for any application. With the MY series serving a low channel count connectivity to analogue, Dante and legacy formats, larger Dante channel counts are supported by higher capacity cards to add low latency Dante connectivity to mixing consoles and computer systems not having Dante implemented as a standard.

QUICK SPECIFICATIONS

	AIC128-D	HY	MY8-ADDA96	MY16-AUD2	MY16-AE	NY64-D
AUDIO FORMAT	Dante	Dante, MADI, TWINLANe	Analogue line level	Dante	AES/EBU	Dante
CHANNELS I/O	128 / 128	256 / 256 (TL) 144 / 144 (Dante) 128 / 128 (MADI)	8 / 8	up to 16 / 16	up to 16 / 16	64 / 64
CONNECTOR	RJ45 x 2	Dante: etherCON TL: opticalCON MADI: SC/BNC	Mini Euroblock x 16	RJ45 x 2	D-SUB25P x 2	Ethercon x 2
MY SLOT COMPATIBLE	-	-	yes	yes	yes	-
NY SLOT COMPATIBLE (TF SERIES)	-	-	-	-	-	yes
PCI-E SLOT COMPATIBLE	yes	-	-	-	-	-
HY SLOT COMPATIBLE (RIVAGE PM SERIES)	_	yes	-	-	-	-

KEY FEATURES

- HUGE LIBRARY OF I/O CARDS FOR MIXING CONSOLES, MIXING ENGINES, RACK I/O AND DIGITAL SIGNAL PROCESSORS
- MY ACTIVE SERIES HOSTS INCLUDE RIVAGE PM, CL, QL, MTX, MRX AND RSIO64-D
- MY LEGACY HOSTS INCLUDE DM/OX, M7CL, LS9, DME SERIES
- NY CARD SYSTEM SUPPORTS HIGH CAPACITY DANTE FOR TF SERIES
- AIC128-D SUPPORTS HIGH CAPACITY DANTE FOR AFC4 AND 3RD PARTY PCIE BUS PC APPLICATIONS
- HY CARD SYSTEM SUPPORTS HIGH CAPACITY DANTE, MADI AND TWINLANE FOR RIVAGE PM SERIES

MY16-AE



MY8-ADDA96



HY256-TL-SMF (RIVAGE PM ONLY)



AUDIO I/O INFRASTUCTURE SOFTWARE







R-REMOTE

PROVISIONAIRE CONTROL





LAN MONITOR

DANTE CONTROLLER

SYSTEM CONTROL IS KEY

The scale and scalability of professional audio systems have grown to unprecedented levels, with systems comprising not only hundred or even thousands of audio channels, but also combining many types of i/o devices, along with their many different feature set. Where at the 'digital era' features were provided on the device front panel or through a dedicated piece of software connected to RS232 or USB, modern networked audio infrastructures offer seamless remote device control using the same network as used for audio. Where R-Remote and mixer editor software is available to control i/o functionality in dedicated mixing consoles and rack i/o devices, the ProVisionaire Graphic User Interface (GUI) platform is developed and evolved to include all networked professional audio devices in a system. Additionally, ProVisionaire also supports other relevant devices such as selected AV components, Disklavier series pianos and even 3rd party components such as the SDK series of video swiotchers. General patching of Dante audio connections can be done with Audinate's Dante Controller, supporting not only all Yamaha Dante compatible devices, but also more than a thousand of other manufacturers products. Finally, Dante Domain Manager can be deployed to control access and to route audio between subnets.

SOFTWARE COMPATIBILITY

	OS	RIO SERIES	RMIO, RSIO	RUIO16-D	SWP SERIES	SWR SERIES	SWX SERIES	TIO SERIES
R-REMOTE	W10 MACOS	yes	yes	-	-	-	-	yes
PROVISIONAIRE CONTROL	W10	yes	-	-	-	-	-	yes
PROVISIONAIRE TOUCH	IOS	yes	-	-	-	-	-	yes
LAN MONITOR	W10 MACOS	-	-	-	yes	yes	yes	-
DANTE CONTROLLER	W10 MACOS	yes	yes	yes	-	-	-	yes
DANTE DOMAIN MANAGER	W10 MACOS	yes	yes	yes	-	-	-	yes

KEY FEATURES

- LAN MONITOR FOR CONTROL AND MONITOR YAMAHA L2 AND L3 SWITCHES AND CONNECTED DANTE NODES
- R-REMOTE SOFTWARE TO CONTROL ANALOGUE RACK I/O AND TIO DEVICES
- CONTROL OF HEAD AMP SETTINGS FROM PM, CL, QL AND TF CONSOLE FRONT PANEL USER INTERFACES AND SOFTWARE EDITORS
- PROVISIONAIRE CONTROL INTEGRATED GUI ENVIRONMENT FOR WINDOWS10
- PROVISIONAIRE TOUCH INTEGRATED GUI ENVIRONMENT FOR IPAD
- DANTE DOMAIN MANAGER AND DANTE CONTROLLER FOR FULL MANAGEMENT AND CONTROL OVER THE DANTE AUDIO NETWORK

144

2



PROVISIONAIRE TOUCH



DANTE DOMAIN MANAGER



SWITCHES SPECIFICATIONS

		SWP1-8	SWP1-8MMF	SWP1-16MMF	SWP2-10MMF	SWP2-10SMF
ТҮРЕ			L2 touring switch		L2 tourin	g switch
NO OF PORTS	IEEE802.3AB 1GBPS	8 etherCON	8 etherCON	12 etherCON + 4 RJ45	10 ethe	erCON
	IEEE802.3AE 10GBPS		-	1040		
	IEEE802.3AB 1GBPS	-	1 opticalCon MM	1 opticalCon MM		
NO OF SLOTS	IEEE802.3AE 10GBPS		-		2 optical	CON MM
VLAN			256		25	6
IP MULTICAST	IGMP V1, V2, V3		Yes		Ye	S
LINK AGGREGATION	802,3AD, LACP, STATIC		Yes		Ye	?S
RSTP/MSTP			Yes		Ye	es
ACL			Yes		Ye	es
LOOP DETECTION			Yes		Ye	es
RADIUS			-		Ye	es
STACKING			-		-	
POE	ТҮРЕ		-		-	
	MAXPOWER PER PORT		-	-		
	MAX POWER		-			
DANTE/VLAN PRESETS			Yes, DIP		Yes,	DIP
FRONT CONNECTIONS			RS232		RS2	232
SOFTWARE- CONTROL	LAN MONITOR		Yes	Ye	s	
CONTROL	WEB		Yes	Yes		
	CLI		Yes			es
OPTIONS	OPTICALCON	2 opticalCon MM	1 opticalCON MM	1 opticalCON MM	-	
	MOUNTING		-		-	
			-			
	SFP MODULE		-		-	
			-		-	
			-		-	
			-		-	
			-		-	
			-		-	
COOLING FANS			-		-	
REDUNDANT POWER		Yes	s, 24V DC (optional PA	700)	Yes, 24V DC (o	ptional PA700)
DIMENSIONS	WXHXD (MM)		480x44x362 (1U)		480x44x362 (1U)	
	WEIGHT (KG)	4,2	4,2	4,6	4,	5

SWR2100P-5G SWR2100P-10G	SWR2311P-10G	SWR2300-10G	SWR2300-18GT	SWR2300- 28GT	SWX2320-MT	SWX3220-MT	
L1 install switch	L2 install switch		L2 install switch		L2 install switch	L3 install switch	
5 RJ45 10 RJ45	10 RJ45	8 RJ45	16 RJ45	24 RJ45		-	
-			-		12 F	8J45	
-	2 SFP	2 SFP	-	-		-	
-	-	-	2 SFP+	2 SFP+	4 S	FP+	
-	256		256		255		
-	Yes		Yes		Y	es	
-	Yes		Yes		Ye	es	
-	Yes		Yes		Ye	es	
-	Yes		Yes		Ye	es	
Yes	Yes		Yes		Ye	es	
-	Yes		Yes		Ye	es	
-	-		-			-	
802.3at 802.3at (port 1-4) (port 1-9)	802.3at (port 1-8)		-		-		
30	30		-		-		
70	240		-		-		
-	-		-		Yes		
-	RS232, SD, USB		RS232, SD, USB	RS232, SD, USB			
Yes	Yes		Yes	Yes			
-	Yes		Yes	Yes			
-	Yes		Yes		Ye	es	
-	-		-			-	
RK-SWR rackmount	RK-SWR rackmount	RK-SWR rackmount	rack ear (included)	rack ear (included)	rack moun	t (included)	
WK-SWR wall mount	WK-SWR wall mount	WK-SWR wall mount	-	-	wall mount	t (included)	
-	SFP-SWRG-SX MM SFP	ę	SFP-SWRG-SX MM SI	FP	SFP-SWRG	-LX SM SFP	
-	SFP-SWRG-LX SM SFP		SFP-SWRG-LX SM SF	P	SFP-SWRG	-LX SM SFP	
-	-	-	SFP-SWRT-SR MM SFP+	SFP-SWRT-SR MM SFP+	SFP-SWRT-S	SR MM SFP+	
-	-	-	SFP-SWRT-LR SM SFP+	SFP-SWRT-LR SM SFP+	SFP-SWRT-	LR SM SFP+	
-	-	-	DAC-SWRT-3M (DAC)	DAC-SWRT-3M (DAC)	DAC-SWR	Г-3M (DAC)	
-	-	-	DAC-SWRT-1M (DAC)	DAC-SWRT-1M (DAC)	DAC-SWR	T-1M (DAC)	
-	Yes		-		Y	es	
-	-		-			-	
220x40,5x250	220x42,4x294	220x40,5x250	330x43,5x200	440x44x300 (1U)	330x44>	(250 (1U)	
1,6 1,8	2,3	1,7	2,1	3,9	2	,7	



DANTE RACK I/O SPECIFICATIONS

			RIO1608-D2	RIO3224-D2
ТҮРЕ			Analo	gue I/O
NETWORK			Da	ante
I/O	INPUTS	ANALOGUE	16 mic/line	32 mic/line
		AES/EBU		-
		OTHER		-
	OUTPUTS	ANALOGUE	8 line	16 line
		AES/EBU	-	4 AES/EBU
		OTHER		-
GAIN COMPENSATION			Y	/es
SAMPLING RATE			44,1 ~	96 kHz
A/D CONVERSION BIT DEPTH			24	bits
FRONT PANEL		DISPLAY	Y	/es
OPERATION		CONTROL	Ŷ	/es
MIXER CONTROL COMPATIBILITY		RIVAGE PM	Ŷ	/es
COMPATIBILITY		CL/QL	Y	/es
		TF	Y	/es
		NUAGE	Y	/es
		MTX/MRX	Y	/es
SOFTWARE CONTROL		R-REMOTE	Y	/es
		PROVISIONAIRE	Y	/es
		OTHER		-
REDUNDANT POWER			Y	/es
DIMENSIONS		WXHXD (MM)	480x132x368(3U)	480x220x368 (5U)
		WEIGHT (KG)	9,6	13,5

RMI064-D	RSIO64-D	RUIO16-D	TI01608-D
Digital I/O	Digital I/O	Analogue I/O+ Digital I/O	Analogue I/O
Dante	Dante	Dante	Dante
-	-	2 mic/line	16 mic/line
-	-	-	-
64 Madi+SRC	4 MY slots	16 USB	-
-	-	2 line	8 line
-	-	-	-
64 Madi/SRC	4 MY slots	16 USB	-
-	-	-	-
44,1 ~ 96 kHz	44,1 ~ 96 kHz	44,1 ~ 96 kHz	44,1 ~ 48 kHz
-	-	24 bits	24 bits
-	-	-	-
Yes	Yes	Yes	-
-	-	-	Yes
-	Yes	-	Yes
-	-	-	Yes
Yes	-	-	-
-	-	-	Yes
Yes	Yes	-	Yes
No	No	-	Yes
-	-	VST Rack	-
-	Optional 24V DC	-	-
480x44x374 (1U)	480x88x365 (2U)	180x121x42	480x88x368(2U)
4,7	6,1	1,0	5,7





I/O CARDS

SPECIFICATIONS AND COMPATIBILITY

CARD INFO

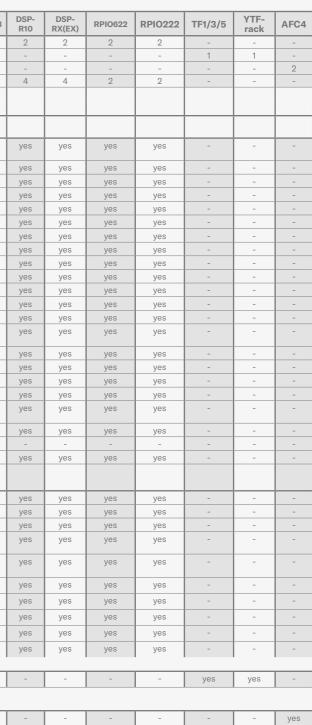
SLOTS LS9-16/32 CL 01V96I MTX5-D QL PM5D M7CL DM2K 02R96 DM1K MY slots* 2 1/2 1 1 6 4 4 3 2 1 NY slots PCI slots HY slots**

AUDIO CONNEC IN/OUT

CARD	FORMAT	IN/OUT	AUDIO CONNECT	OR									
MY CARDS													
MY8-ADDA96	analogue	8/8	Mini Euroblock x 2	yes									
MY8-AD96	analogue	8/-	D-SUB 25P x 1	yes									
MY8-AD24	analogue	8/-	TRS phone x 8	yes									
MY4-AD	analogue	4/-	XLR x 4	yes									
MY8-DA96	analogue	-/8	D-SUB 25P x 1	yes									
MY4-DA	analogue	-/4	XLR x 4	yes									
MY16-AT	Adat	16/16	Tos link x 4	yes									
MY8-AT	Adat	8/8	Tos link x 2	yes									
MY16-AE	AES/EBU	16/16	D-SUB 25P x 2	yes									
MY8-AE96S	AES/EBU	8/8	D-SUB 25P x 1	yes									
MY8-AE96	AES/EBU	8/8	D-SUB 25P x 1	yes									
MY8-AE	AES/EBU	8/8	D-SUB 25P x 1	yes									
MY8-AEB	AES/EBU	8/8	BNC x 8	yes									
MY16-MD64	MADI	16/16	BNC x 2 Optical SC x 2	yes									
MY8-SDI-ED	SDI	8/8	BNC x 3	yes									
MY16-TD	Tascam	16/16	D-SUB 25P x 2	yes									
MY16-CII	Cobranet	16/16	RJ45 x 2	yes									
MY16-AUD2	Dante	16/16	RJ45 x 2	yes									
MY16-ES64	Ethersound	16/16	Ethercon x 2 RJ45 x 2	yes									
MY16-EX	Expansion	16/16	RJ45 x 4	yes									
MY4-AEC	AES/EBU	4/4	Euroblock x 4	-	-	-	-	-	-	-	-	-	yes
DUGAN MY16	Adat	8/8	optical x 2	yes									
3RD PARTY MY C	ARDS												
16/O-Y1	Aviom A-net	-/16	Ethercon x 1	yes									
6416Y2	Aviom A-net	16/16	Ethercon x 2	yes									
AVY16-ES100	Ethersound	16/16	Ethercon x 2	yes									
YG2	Optocore		optical LC x 2 RJ45 x 2	yes									
YS2	Optocore expansion	16/16	RJ45 x 2	yes									
E16I/0-MY	Pivitec	16/16	RJ45 x 1	yes									
RN.341.MY	Rocknet300	16/16	Ethercon x 2	yes									
RN.141.MY	Rocknet100	16/16	Ethercon x 2	yes									
WSG-Y16	Soundgrid		RJ45 x 1	yes									
MY8-LAKE	AES/EBU	8/8	D-SUB 25P x 1	yes									
	ALS/LDO	0/0	D-308 23F X I	yes									
NY CARDS		04/04											
NY64-D	Dante	64/64	EtherCON x 2	-	-	-	-	-	-	-	-	-	-
PCIE CARDS AIC128-D	Dante	128/128	RJ45 x 2	-	-	-	-	-	-	-	-	-	-
HY CARDS				I									
HY256-TL	TWINLANe	256/256	Opticalcon x 2	-	-	-	-	-	-	-	-	-	-
HY256-TL- SMF	TWINLANe	256/256	Opticalcon x 2	-	-	-	-	-	-	-	-	-	-
HY144-D	Dante	144/144	Ethercon x 2	-	-	-	-	-	-	-	-	-	-
HY144-D-SRC	Dante	144/144	Ethercon x 2	-	-	-	-	-	-	-	-	-	-
HY128-MD	MADI	128/128	BNC x 4 optical SC x 4	-	-	-	-	-	-	-	-	-	-
HY128-WSG	SoundGrid	128/128	Ethercon x 2	-	-	-	-	-	-	-	-	-	-
		.,					1		1				L

* for configuration info see the https://europe.yamaha.com/en/products/contents/proaudio/training_support/ygdaicards_matching/index.html ** for configurations please contact our system engineering group

MRX7-D	DME64N	DME24N	DA824	TXN	CS-R10	CS- R10S	CSD- R7	CS-R5	CS-R3	DSP- R10	DSP- RX(EX)	RPI0622	RPIO222	TF1/3/5	YTF- rack	AFC4
1	4	1	1	1	2	2	2	2	2	2	2	2	2	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	3	-	-	4	4	2	2	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	_	_	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
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yes	yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
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yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	_	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
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-	-	-	-	-	-	-	yes	-	-	yes	yes	yes	yes	-	-	-
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-	-	-	-	-	-	-	yes	-	-	yes	yes	yes	yes	-	-	-
-	-	-	-	-	-	-	yes	-	-	yes	yes	yes	yes	-	-	-
-	-	-	-	-	-	-	yes	-	-	yes	yes	yes	yes	-	-	-
							,			,	,	,	,			





LIVE STREAMING/GAMING

AS REMOTE COMMUNICATION OF ALL KINDS CONTINUES TO GROW IN IMPORTANCE, PERSONAL LIVE STREAMING HAS BECOME A MAJOR FORM OF ONLINE ENTERTAINMENT.

With platforms such as YouTube Live, Twitch and podcasting offering a diverse range of content and streaming styles - from simple, single-person productions to those which involve multiple voices - live streaming has also seen rapid growth in business and education. Here, an evergrowing number of classes, seminars, meetings and business transactions are being carried out via live streaming.

Foreseeing such demand, Yamaha has constantly evolved its AG series of live streaming mixers, expanded their line-up, added best matching utility and finally added the all new ZG Series to complete the Live Streaming and Gaming products family.

All of which became a de facto industry standard for a wide range of online audio applications. Even users with lower experience can achieve their streaming aspirations, thanks to the flexible input capability, simple intuitive interfaces, onboard DSP effects and LOOPBACK functions, which allow users to integrate for example USB-, HDMI- or TRRS-connected audio signals into their broadcasts.





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AG SERIES

LIVE STREAMING MIXERS/MICROPHONE



DETAILS





AG01 BLACK/WHITE





AG06 REAR

AG03 LIVE STREAMING PACK

YOUR AUDIENCE AWAITS

The AG SERIES has been developed to support streaming operations that require simplicity and real-time performance more than ever before, in order to facilitate connections between people in the world of streaming and communication. Even users with no experience can achieve their streaming aspirations, thanks to the flexible input capability, simple intuitive interface, onboard DSP effects and LOOPBACK function, which allow users to integrate USB-connected audio signals into their broadcasts. The second generation of the AG series expands on these features with the updated AG06MK2 and AG03MK2, plus the brand new AG08 flagship streaming station, the AG01 live streaming mic and the YCM01 condenser mic. All have been developed to satisfy an even more diverse range of uses and are available in either black or white to easily adapt to any streaming environment.

QUICK SPECIFICATIONS

	AG01	AG03MK2	AG06MK2	
MIXING CHANNELS	XING CHANNELS 1/2		6	
D-PRE MIC PREAMPS	-	1	2	
MIC TYPE	Back electret condenser, cardioid pattern	-	-	
INPUT CHANNELS	1x Mic (built-in), 1x Stereo-Mini, 1x 4-pole mini I/O (TRRS), 1x USB	1x Combo, 1x Stereo Line, 1x 4-pole mini I/O (TRRS), 1x USB	2x Combo, 2x Stereo Line, 1x 4-pole mini I/O (TRRS), 1x USB	
OUTPUT CHANNELS	1x Stereo-Mini, 1x 4-pole mini I/O (TRRS), 1x USB	1x Phones/Headset, 1x 4-pole mini I/O (TRRS), 1x USB, 1x Monitor	2x Phones/Headset, 1x 4-pole mini I/O (TRRS), 1x USB, 2x Monitor, 1x Stereo Out	
EFFECT PROCESSING	COMP/EQ, REVERB (SPX)	COMP/EQ, REVERB (SPX), AMP SIM	COMP/EQ, REVERB (SPX), AMP SIM	
USB INTERFACE	2in/2out, 192kHz/24-bit	2in/2out, 192kHz/24-bit	2in/2out, 192kHz/24-bit	
PHANTOM POWER	-	CH1 +48V	CH1/2 +48V	
HI-Z INSTRUMENT INPUT	-	1x CH1	1x CH2	
PAD SWITCH	-	-26 dB	-26 dB	
POWER REQUIREMENT	DC 5V, 500mA, 4.5W	DC 5V, 500 mA	DC 5V, 500 mA	
DIMENSIONS (W/H/D)	DIMENSIONS (W/H/D) 116 x 281 x 118 mm		152 x 63 x 201 mm	

KEY FEATURES

- SIMPLE AND INTUITIVE AUDIO CONTROLS
- HIGH RESOLUTION (192KHZ / 24BIT) PLAYBACK AND RECORDING
- FLEXIBLE CONNECTIVITY
- 1-TOUCH DSP FOR PROFESSIONAL SOUND WITH A SINGLE TOUCH
- AG CONTROLLER APPLICATION
- USB BUS OR MOBILE BATTERY POWERED

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AG01 CONNECTIONS

AG03/06 SURFACE





AG CONTROLLER (DETAIL MODE)



AG SERIES

AG08: ALL-IN-ONE LIVE STREAMING MIXER



YOUR AUDIENCE AWAITS

As the flagship model of the second-generation AG SERIES lineup, the AG08 combines all the essential functionality of its predecessors with a versatile selection of practical new features to give you a powerful all-in-one streaming station. By integrating more flexible I/O and USB routing options, expanded footswitch functionality, as well as additional DSP effects and improved internal circuitry for class-leading sound, the AG08 is able to support an impressive depth of live streaming applications, as well as offline audio content creation. From single-user talking, gaming, ASMR, voice acting, or vocal/ instrument performances, to multiple personnel applications even on the scale of a full-blown variety show, everything is possible. Aside the extended physical controls (multi-purpose mixer, sample pads, effect pads) the AG08 comes with the dedicated "AG08 Controller" software for Win/Mac, iOS/Android.

KEY FEATURES

- ALL-IN-ONE LIVE STREAMING SOLUTION
- HIGH RESOLUTION (48KHZ / 24BIT) PLAYBACK AND RECORDING
- MULTIPLE USB I/O AND ROUTING OPTIONS, ASSIGNABLE FADERS
- EXTENDED PHYSICAL CONTROLS (6 SAMPLE PADS, 4 EFFECT PADS)
- DEDICATED "AG08 CONTROLLER" APPLICATION
- USB BUS OR MOBILE BATTERY POWERED

DETAILS





AG08 SURFACE







SOUND PADS

EFFECT SECTION/CONTROLS

QUICK SPECIFICATIONS

	AG08
MIXING CHANNELS	8
D-PRE MIC PREAMPS	2
INPUT CHANNELS	1x Combo/Headset, 1x Combo, 3x ST(1/4"TRS ,RCA/mini, 1x TRRS mini /3x USB)
OUTPUT CHANNELS	Monitor (XLR + TRS, 2x PHONES), Mix (TRS), 7/8 (1x TRRS), USB (3x WDM, 9x ASIO)
EFFECT PROCESSING	Voice changer, Amp Sim, COMP-EQ, Delay-Reverb, Ducker, Maximizer
PADS / FADERS	6x Sound pads, 4x FX preset pads, 5x 60mm faders (3x assignable LINE/USB)
USB INTERFACE	4in/4out 24-bit/48kHz USB-C
PHANTOM POWER	+48V on CH1+2
HI-Z INSTRUMENT INPUT	CH2
PAD SWITCH	-26dB on CH1-3
POWER REQUIREMENT	12V 1.5A, USB-C bus powered or PA-150B adaptor
DIMENSIONS (W/H/D)	290 x 88 x 222 mm





AG08 BLACK VERSION



AG08 CONTROLLER



ZG SERIES

GAME STREAMING AUDIO MIXER



MAKE IT YOUR WORLD.

In response to the ever-increasing demand for a more immersive gaming experience, Yamaha has launched its first dedicated game streaming audio mixer. Released alongside the YH-GO1 studio-quality headset, the ZGO1 gaming mixer allows users to customize game audio, their voice and the voice of a chat partner within their gaming environment, while providing high quality sound to both their chat partner and the streaming audience.

Thanks to its decades of advanced acoustic, sound processing and audio software development, Yamaha is the perfect manufacturer to give the almost three billion worldwide gamers a uniquely immersive experience with the new ZG01 gaming mixer.

The **ZG01** features physical controls designed to intuitively manage the sound for gameplay, voice chat and streaming, plus HDMI ports for connecting consumer game consoles and for building a more extensive gaming sound environment, with a minimum of connectivity and setup.

KEY FEATURES

- INTUITIVE SOUND AND SOURCE CONTROL FOR GAMERS/STREAMERS
- HIGH RESOLUTION (24-BIT/48KHZ) USB AUDIO RECORDING AND PLAYBACK
- ZG SOUND PROCESSING (ZG SURROUND, FOCUS MODE/EQ, 3D CHAT SPACE, VOICE CHANGER EFFECTS AND MANY MORE)
- 2IN/10UT HDMI CONNECTION (VIDEO: PASS TROUGH)
- **ZG CONTROLLER APP FOR PRECISE PARAMETER CONTROLS**
- COMBO IN WITH +48V FOR CONDENSER MICS

DETAILS





ZG01 SURFACE







ZG01 PACK

ZG CONTROLLER (3D-CHAT SPACE)

QUICK SPECIFICATIONS

	ZG01
INPUT CHANNELS	1x Combo (Mic, +48V), 1x Stereo-Mini, 1x 4-pole Mini-I/O (TRRS), 2x HDMI, 1x USB (2 virtual devices)
OUTPUT CHANNELS	1x Phones, 1x 4-pole Mini-I/O (TRRS), 1x Speaker Out, 1x HDMI, 1x USB (2 virtual devices)
EFFECTS PROCESSING	ZG SURROUND, FOCUS MODE/EQ, 3D VOICE CHAT, VOICE CHANGER
USB INTERFACE	48kHz/24-bit, Type-C
POWER REQUIREMENT	5V DC, 1.5A, 7.5W max.
DIMENSIONS (WXHXD)	195 x 47.5 x 110 mm





YH-G01 HEADSET



PHYSICAL EFFECT CONTROLS

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	YH-G01
FREQUENCY RESPONSE	20 – 20.000 Hz
IMPEDANCE	35 Ohms
MIC TYPE	Electret condenser
SENSITIVITY	94.4 dB/mW
CONNECTOR	3.55, 4-pole Stereo-mini
WEIGHT	240g
INCL. ACCESSORIES	Microphone, Headset audio splitter cable



SOFTWARE FOR LIVE STREAMING AND GAMING PRODUCTS

APPLICATIONS FOR AG AND ZG

AG Controller is a software application that allows you to control the DSP functions of the AG03MK2, AG06MK2, AG03, AG06, and AG01 from your Windows / Mac / iOS device via USB connection. AG08 has an even more powerful, dedicated software application AG08 CONTROLLER, that allows to manage all parameters, functions and routing via Mac/Win computers or on iPad OS. ZG CONTROLLER is a software application that allows you to control the DSP functions and internal audio settings of the ZG series game streaming mixer from your Windows/Mac device via USB connection. The REC'N'SHARE APP enhances the way you practice and allows you to create stunning audio, video and easily share it directly from your smart device.





AG08 CONTROLLER

I/O OVERVIEW

AG08 CONTROLLER

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- DEDICATED SOFTWARE FOR AG08 FLAGSHIP LIVE STREAMING MIXER
- CONTROLS ALL AG08 FUNCTIONS AND PARAMETERS
- FOR WIN/MAC COMPUTERS AND IPAD OS
- EDIT AND STORE PRESETS, SCENE RECALL
- MANAGE ALL I/O, EFFECT AND SOUNDPAD SETTINGS
- MANAGE ALL ROUTING OPTIONS (UP TO FOUR VIRTUAL **DEVICES**)

AG CONTROLLER

- CONTROLS ALL DSP FUNCTIONS OF AG01/AG03/AG03MK2/ AG06/AG06MK2
- FOR WIN/MAC COMPUTERS AND IOS DEVICES VIA USB
- SIMPLE AND DETAIL MODE AVAILABLE
- **EDIT AND STORE PRESETS**
- CONTROL ALL EFFECT AND AMP SIM PARAMETERS
- MONITOR AND OUTPUT SETTINGS

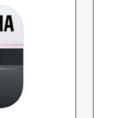
ZG CONTROLLER

- CONTROLS DSP FUNCTIONS AND INTERNAL AUDIO SETTINGS OF ZG
- FOR WIN/MAC COMPUTERS VIA USB-C
- SOUND CHECK FUNCIONALITY
- EDIT ALL MIC SETTINGS. MIC EFFECTS AND GAME **EFFECT PARAMETERS**
- HEADPHONE MONITOR SETTINGS
- STREAMING OUTPUT MIXER

REC'N'SHARE

- RECORD AUDIO AND VIDEO ALONG WITH SONGS AND SHARE
- AUDIO TRACK SEPARATION FUNCTION
- MUSIC ANALYSIS FUNCTION
- EDIT FUNCTION
- MANUALS & HELP FUNCTION
- COMPATIBLE WITH AG01/AG03MK2/AG06MK2. IOS ONLY







AG CONTROLLER







ZG CONTOLLER







REC'N'SHARE



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PAD SETTINGS



DETAIL MODE



PARAMETER SETTINGS



EDIT TRACKS



SPECIFICATIONS LIVE STREAMING/GAMING PRODUCTS

		AG SERIES						
		AG01	AG03MK2	AG06MK2	AG08			
		LIVE STREAMING MICROPHONE	LIVE STREAM	MING MIXER	ALL-IN-ONE LIVE STREAMING MIXER			
FREQUENCY RESPON	SE	30 Hz - 20 kHz	Fs = 192 kHz)					
TOTAL HARMONIC DI	STORTION	<1% at 1 kHz	AIN knob: min					
INPUT CHANNELS	MONO (MIC/LINE) 1x Mono condenser 1 2		2x Combo In					
	MONO/STEREO (MIC/LINE)	-	-		1x Stereo Line			
	STEREO (LINE)	1x AUX, 1x Smart- phone (TRRS)	1, add. USB IN & AUX IN	2, add. USB IN & AUX IN	1x RCA, 1x TRRS, 1x AUX, 4x USB I/O			
	OTHERS	-	-		-			
OUTPUT CHANNELS	STEREO OUT	1x 4-pole mini I/O (TRRS)	-		2x XLR, 1x Stereo line, USB OUT			
	MONITOR OUT	-	1	2	1x Stereo line			
	PHONES	1x Stereo mini, 1x Headset	1	x Stereo jack, 1x Headse	et			
	AUX SEND							
	GROUP OUT		-					
BUS		-	Ster	Stereo: 1, USB Streaming				
UNCTION PAD (MONO)		-						
ONCTION	HPF (MONO, MONO/STEREO)	DSP, editable via AG Controller	DSP, editable via AG Controller		DSP, AG08 Controller App			
	COMP (MONO)	DSP, editable via AG Controller	DSP CH1 - COMP, CH2 - AMP SIM, editable via AG Controller		DSP, AG08 Controlle App, additional AMI SIM and DUCKER			
	EQ	DS	P, editable via AG Contro	ller	DSP, AG08 Controller App			
	PEAK LED (MONO)	yes yes (post EQ 3dB below clipping)						
EFFECTS PROCESSING	SPX ALGORITHM	SPX Reverb						
	REV-X							
FUNCTION		MUTE button, REVERB switch, tabletop mount, 3/8" thread	MUTE button, COMP/EQ and AMP SIM switch		MUTE buttons, 4x Voice effect preset switches, FX/VC/ COMP/EQ hardware controls, 6x Sound pads			
USB AUDIO/RECORDI	ING	USB-C, Max. 192 kHz/24bit	USB-C 2in/2out, n	nax. 192 kHz/24bit	USB-C 4in/4out, 48 kHz/24bit			
PHANTOM POWER VC	DLTAGE	-		+48V				
POWER REQUIREMEN	ITS	5V DC, 900 mA	DC 5 V,	500 mA	12V DC, 1.5A			
POWER CONSUMPTIC	DN	max. 4.5W	Max.	2.5 W	max. 10W			
DIMENSIONS (W X H)	X D)	116 x 281 x 118 mm	129 x 63 x 202 mm	155 x 63 x 202 mm	290 x 88 x 222 mm			
NET WEIGHT		1.2 kg	0.8 kg	1.0 kg	2.2 kg			
INCLUDED ACCESSOI	RY	USB 2.0 Cable (1.5m)	USB 2.0 Cable (1.5m), Wavelab Cast and Cubase AI Download Info					
OPTIONAL ACCESSO	RY	-	BMS10-A Mic- FC5 Foo	Stand adaptor, otswitch	FC5 Footswitch			
OPERATING TEMPER	ATURE		0 to +40	° Celsius				

ZG SERIES						
ZG01	YH-G0					
GAME STREAMING MIXER	GAMING HE					
-	20 Hz - 20					
-	-					
1 - Combo (Mic, +48 V phantom power), 3.5 mm (1/8"") mini (Headset mic, Plug-in power)"	-					
-	-					
1x AUX, Smartphone (TRRS), add. USB and HDMI I/O	-					
HDMI 1/HDMI 2; Audio input: 2ch 24-bit/192kHz (Max.), Video signal *1: No video capture function	Electret condenser mic (de Sensitivity: 94.4					
1x Stereo mini	ø 3.5 mm (1/8") stereo min					
-						
1x Headset						
-						
-						
USB Streaming						
-						
DSP, ZG Controller App						
DSP, ZG Controller App						
DSP, ZG Controller App						
-						
ZG SURROUND, FOCUS MODE/EQ, 3D CHAT SPACE, voice changer, game sound effects						
-						
MUTE button, HDMI source selector, 3x Voice Effect switch, 3x Game Sound Effect switch						
USB-C, 48 kHz/24bit						
+48V						
5V DC, 1.5A						
max. 7.5W						
195 x 47.5 x 110 mm	-					
0.8 kg	240g (without					
USB 2.0 cable (USB-C to USB-C) 1.5 m x 1, USB 2.0 cable (USB-A to USB-C) 1.5 m x 1, Start Guide, Safety Guide"	1x Microphone, 1x Headset					
-	-					
0 to +40° Celsius	0 to +40° Ce					

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EADSET
0 kHz
letachable), 35 Ohms, .4 dB/mW
ni plug, 4 pole (CTIA)
ut cable)
et splitter audio cable
Celsius



ANALOGUE MIXERS

THERE ARE STILL MANY SITUATIONS WHERE THE 'GRAB AND TURN' IMMEDIACY OF AN ANALOGUE MIXER MAY BE MORE CONVENIENT THAN A DIGITAL SYSTEM, ESPECIALLY WHERE BUDGET IS A **PRIMARY CONCERN.**

Yamaha's PM series of mixing consoles made its debut in 1972, beginning an audio mixing philosophy that continues to this day. Before digital mixing became the norm, the large format PM4000 was the de-facto standard for mixing many of the world's highest profile stars around the world.

Even as Yamaha took a global lead in digital audio mixing, the PM5000 took analogue to its logical conclusion by adding moving faders and scene memory, creating the perfect crossover for engineers steeped in the analogue tradition as the world moved into the digital future.

All of that history and technical progress is embodied in Yamaha's current AG, MG and MGP series analogue mixers, which add selected digital features to provide the best of both worlds. From the ultra-compact yet feature-filled AG and MG06 models to the club-friendly MGP32X, 50 years later Yamaha analogue mixers are still making waves.





SOFTWARE FOR ANALOGUE MIXING CONSOLES



CONFERENCE

MG SERIES

ANALOGUE MIXERS





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ROAD TOUGH. STUDIO READY.

For more than a century, Yamaha has been building a legacy of superior craftsmanship and innovation exemplified in all of our products, from an unrivalled catalog of worldclass musical instruments to touring-grade professional audio. Now in its third

incarnation, the MG Series embodies this pursuit of design excellence, and incorporates some of the same technologies developed for use in high-end professional consoles, including studio-quality preamps, powerful digital processing, and a rugged, reliable construction. With an intuitive, easy-to-use interface, the MG Series boasts an extensive lineup of compact mixing consoles with models ranging from six to twenty channels, suitable for a diverse range of users and applications. For installed, recording, or live music settings, the solid construction and flexible design of these consoles lets you shape your sound with confidence, continually delivering peak performance and a level of sound quality and reliability unrivalled in its class. All MG SERIES consoles feature a metal chassis and balaced XLR outputs. The X-Models all feature a SPX-Effects processor. The XU-Models all come with a Download Access Code for Cubase AI and are compatible with Apple iPad (iPad 2 or later) via the optional Apple Camera Connection Kit/Lightning to USB Camera Adapter. The X-Models all feature a SPX-Effects processor.

KEY FEATURES

- D-PRE (DISCRETE CLASS-A MIC PREAMPS)
- SWITCHABLE PHANTOM POWER/PAD
- 1-KNOB COMPRESSORS
- SPX DIGITAL EFFECTS / 192 KHZ, 24 BIT USB INTERFACE (XU-MODELS)
- METAL CHASSIS
- INTERNAL UNIVERSAL POWER SUPPLY

DETAILS



MG12XU REAR PANEL



MG16XU



RK-MG12 RACK-MOUNT KIT FOR MG12XU (OPTION, RACK-MOUNT KIT IS INCLUDED IN MG20XU AND MG16XU)

+48V, 1-KNOB COMPRESSORS

QUICK SPECIFICATIONS

	MIXING CHANNELS	1-KNOB COMP.	FX & USB	AUX SENDS	RACK OPTION	DIMENSIONS (W/H/D)
MG20XU	20 (16 Mic/20 Line)	8	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	4 (incl. FX)	included	444 x 130 x 500 mm
MG20	20 (16 Mic/20 Line)	8	-	4	included	444 x 130 x 500 mm
MG16X	16 (10 Mic/16 Line)	8	SPX, 24 programs 192 kHz, 24 bit 2in/2out	4 (incl. FX)	included	444 x 130 x 500 mm
MG16XU	16 (10 Mic/16 Line)	8	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	4 (incl. FX)	included	444 x 130 x 500 mm
MG16	16 (10 Mic/16 Line)	8	-	4	included	444 x 130 x 500 mm
MG12X	12 (6 Mic/12 Line)	4	SPX, 24 programs 192 kHz, 24 bit 2in/2out	2 (incl. FX)	RK-MG12	308 x 118 x 422 mm
MG12XU	12 (6 Mic/12 Line)	4	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	2 (incl. FX)	RK-MG12	308 x 118 x 422 mm
MG12XUK (KNOB VERSION)	12 (6 Mic/12 Line)	4	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	1 (Incl. FX)	-	315 x 91 x 297 mm
MG12	12 (6 Mic/12 Line)	4	-	2	RK-MG12	308 x 118 x 422 mm
MG10X	10 (4 Mic/10 Line)	2	SPX, 24 programs 192 kHz, 24 bit 2in/2out	1 (incl. FX)	-	244 x 71 x 294 mm
MG10XU	10 (4 Mic/10 Line)	2	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	1 (incl. FX)	-	244 x 71 x 294 mm
MG10XUF (FADER VERSION)	10 (4 Mic/10 Line)	2	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	1 (incl. FX)	-	275 x 110 x 390 mm
MG10	10 (4 Mic/10 Line)	2	-	1	-	244 x 71 x 294 mm
MG06X	6 (2 Mic/6 Line)	-	SPX, 6 programs 192 kHz, 24 bit 2in/2out	-	-	149 x 62 x 202 mm
MGO6	6 (2 Mic/6 Line)	-	-	-	-	149 x 62 x 202 mm



METAL CHASSIS





BALANCED OUTPUTS (MG20XU)



CONFERENCE

MGP SERIES

PREMIUM ANALOGUE MIXERS

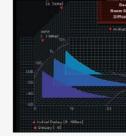






MGP32X





D-PRE

REV-X

DIGITAL HEART. ANALOG SOUL.

Yamaha has provided an impressive range of lineups in professional audio since the release of the PM200 in 1972 - our first ever professional analog mixing console. In 1987, we also released our first digital mixer, the DMP7, and have subsequently advanced technological innovations in sound quality, reliability and advanced functionalities with cutting-edge digital technologies. Drawing from our decades of experience crafting innovative, premium analog gear, we originally developed our new discrete Class-A microphone preamps for professional use in our high-end recording equipment. Utilizing an inverted Darlington circuit design, our newly-refined D-PRE mic preamps deliver a fat, rich, smooth tone that gives the MGP Series a significant advantage over any other mixer in its class. With Yamaha's proprietary X-pressive EQ we've managed to capture ultimate analog authenticity by unlocking the mysterious secret behind the expressive sound shaping capabilities of soughtafter classic EQ modules. At the heart of the MGP's compact configuration, we've taken an innovative new approach to the utilization of digital technology in an analog mixer; adding high-resolution effects, iPod/iPhone integration and the superb functionality of our new Stereo Hybrid Channel to the warmth and musicality of premium analog sound. The MGP SERIES represents the ultimate balance of the converging technologies that are the heart and soul of Yamaha's extraordinary achievements in professional audio.

KEY FEATURES

- D-PRE (DISCRETE CLASS-A MIC PREAMPS)
- X-PRESSIVE EQ (BASED ON YAMAHA'S VCM TECHNOLOGY)
- 1-KNOB COMPRESSORS WITH LED INDICATORS
- DUAL DIGITAL EFFECT PROCESSORS (REV-X & SPX)
- TWO HYBRID CHANNELS WITH DSP EFFECTS (DUCKER, STEREO IMAGE, LEVELER)
- MASTER USB REC/PLAY, iPhone CONTROL VIA MGP EDITOR APP

OUICK SPECIFICATIONS

	MGP24X	MGP32X		
MIXING CHANNELS	24	32		
D-PRE MIC PREAMPS	16	24		
1-KNOB COMPRESSORS	8	16		
EQUALIZER	3-band X-Pressive	3-band X-Pressive		
FX PROCESSORS	SPX and REV-X	SPX and REV-X		
HYBRID CHANNELS	2 with DSP (Priority Ducker, Leveller, Stereo Image)	2 with DSP (Priority Ducker, Leveller, Stereo Image)		
IPOD/IPHONE APP	Yes (USB connect & charge)	Yes (USB connect & charge)		
MASTER COMPRESSOR	3-band	3-band		
GRAPHIC EQ	Feature 14-band & Flex 9-band	Feature 14-band & Flex 9-band		
USB DEVICE RECORDING	Yes (WAV or MP3)	Yes (WAV or MP3)		
AUX-SENDS	4 (2x Pre & 2x Pre/Post switchable)	4 (2x Pre & 2x Pre/Post switchable)		
GROUPS	4	4		
MATRIX	2	2		
RACKMOUNTS	-	-		
DIMENSIONS (W/H/D)	819 x 169 x 495 mm	1207 x 169 x 565 mm		

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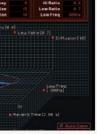
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MGP MASTER SECTION DETAIL



MGP REAR PANEL





MGP24X



SOFTWARE FOR ANALOGUE MIXING CONSOLES

APPLICATIONS FOR YAMAHA ANALOG MIXING CONSOLES

Discover our software and applications for PC, iPad, iPhone, and Android, which offer useful solutions for creating sound design. The MGP Editor is a free software application that gives you additional control of your MGP mixer's DSP settings via your iPhone, iPod touch, and iPad. The MG Rec & Play software application enables high-quality recording, as well as fast and easy playback of songs and sound effects, by simply connecting your iPhone/iPad to any MG Series XU model.



MGP EDITOR 1

MGP EDITOR 2





MG REC & PLAY 1

MG REC & PLAY 2

- FREE APP FOR iPhone AND iPod Touch
- CONTROL FOR REV-X AND SPX EFFECT PARAMETERS
- CONTROL FOR HYBRID CHANNELS (PRIORITY DUCKER/LEVELLER/ATTENUATOR)
- GEQ AND MASTERCOMPRESSOR SETTINGS
- REQUIRES A MGP MIXING CONSOLE
- WIRED CONNECTION VIA USB

MG REC & PLAY

- FREE APP FOR iPhone AND iPad
- SIMPLE RECORDING FUNCTION FOR THE 2-TRACK STEREO BUS (44.1/48/96 KHZ)
- FAST AND EASY PLAYBACK OF SONGS AND SOUND EFFECTS
- Apple CAMERA CONNECTION KIT OR LIGHTNING-TO-USB ADAPTER REQUIRED
- WORKS WITH ANY MG-XU MODEL

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MGP EDITOR 3



MG REC & PLAY 3

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SPECIFICATIONS ANALOGUE MIXING CONSOLES

				MG SERIES			
		MG06	MG06X	MG10	MG10X	MG10XU	
FREQUENCY RESPONSE		+0.5 dB/-0.5 dB (20 Hz to 20 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min		+0.5 dB/-1.0 dB (20 Hz to 48 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min			
TOTAL HARMONIC DI	STORTION	0.01 % @ +8 dBu (20 Hz to 20kHz), GAIN knob: Min		0.02 % @ +14 dBu (20 Hz to 20kHz), GAIN knob: Min			
INPUT CHANNELS	MONO (MIC/LINE)	:	2		4		
	MONO/STEREO (MIC/LINE)		-				
	STEREO (LINE)		2		3		
OUTPUT CHANNELS	STEREO OUT			2			
	MONITOR OUT		-		1		
	PHONES			1			
	AUX SEND		-		1		
	GROUP OUT		-		-		
BUS		Ster	reo: 1	Stereo: 1, AUX: 1	Stereo: 1,	AUX/FX: 1	
INPUT CHANNEL	PAD (MONO)			26 dB			
FUNCTION	HPF (MONO, MONO/STEREO)	80 Hz, 12 dB/oct (Mono)					
	COMP (MONO)		-	1-knob compressor			
	EQ	2-b	and		3-band	·	
	PEAK LED (MONO)		Yes (p	oost EQ 3 dB below clipping)			
EFFECTS	SPX ALGORITHM	-	6	-		24	
PROCESSING	REV-X	-	-	-		-	
USB AUDIO/RECORDI	ING	-	-	-	2in / 2out, Max. 192 kHz, 24 bit	USB 2in / 2out, Max. 192 kHz, 24 bit	
PHANTOM POWER VC	DLTAGE	+48V					
POWER REQUIREMEN	ITS		A	AC 100-240 V, 50/60 Hz			
POWER CONSUMPTIC	ON	12 W	12 W		22.9 W		
DIMENSIONS (W X H	X D)	149 x 62 x 202 mm		244 x 71 x 294 mm			
NET WEIGHT		0.9 kg (1.98 lbs.)		1.9 kg (4.19 lbs.)	2.1 kg (4.63 lbs.)		
INCLUDED ACCESSORY		AC Adaptor, Owner's Manual, '		Tech. Specs AC Adaptor, Owner's M Tech. Specs, CUBASE AI o info		BASE AI download	
OPTIONAL ACCESSORY		BMS10-A Mic-Stand adap		aptor BMS10-A Mic-Stand adaptor, FC5 Footswitch			
OPTIONAL ACCESSO	RY	BM	SIO-A MIC-Stanu aua	10101	FC5 Foo	otswitch	

				MG S	ERIES					MGP S	ERIES
MG10XUF	MG12	MG12X	MG12XU	MG12XUK	MG16	MG16X	MG16XU	MG20	MG20XU	MGP24X	MGP32X
+0.5 dB/-1.5 dB (20Hz to 48 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min (20 Hz to 20 kHz), GAIN knob: Min							+0.5/-1.0dB 20Hz - 20kHz, refer to the nominal output level @1kHz, GAIN knob: Mir				
0.03% @ +14dBu (20 Hz to 20 kHz), GAIN knob: min								0.02% @ + Hz 20 kHz), G m	to AIN knob:		
4	4	4	4	6	8	8	8	12	12	16	24
-	2	2	2	0	2	2	2	4	4		
3	2	2	2	3	2	2	2	0	0	4	Ļ
				:	2					1	
	-				1					1, add. MA	ATRIX Out
					1					1	
1	2	2	2	2	4	4	4	4	4	6+2	6+2
-	2	2	2	2	4	4	4	4	4	4	Ļ
Stereo: 1, AUX/FX: 1	Stereo: 1, GROUP: 2, AUX: 2		GROUP: 2, (incl. FX)	Stereo: 1, GROUP: 0, AUX: 1 (incl.FX)	Stereo: 1, GROUP: 4, AUX: 4		GROUP: 4, (incl. FX)	Stereo: 1, GROUP: 4, AUX: 4	Stereo: 1, GROUP: 4, AUX: 4 (incl. FX)	Stereo: 1, GROUP: 4, AUX: 6, FX: 2	Stereo: 1 GROUP: 4 AUX: 6, FX: 2
				26	dB	,	_			26	dB
80 Hz, 12 dB/Oct. (Mono/Stereo: MIC only) 80 Hz, 12 dB/Oct. (Mono/Stereo: MIC only) 80 Hz, 12 dB/Oct. (Mono/Stereo: MIC only)								100 Hz, 1	2 dB/Oct.		
				1-knob co	ompressor					1-knob co 2 hybrid ch	
				3-b	and					X-pressiv	e 3-band
			Yes	s (post EQ 3 d	B below clipp	ing)				Yes (post EQ clipp	
24	-	24	24	24	-	24	24	-	24	1	6
-	-	-	-	-	-	-	-	-	-	8	3
USB 2in / 2out, Max. 192 kHz / 24 bit	-	2in / 2out, Max. 192 kHz / 24 bit		2out, Max. 2 / 24 bit	-	2in / 2out, Max. 192 kHz / 24 bit	USB 2in / 2out, Max. 192 kHz / 24 bit	-	USB 2in / 2out, Max. 192 kHz / 24 bit	USB Device (WAV o	
				+4	-8V					+4	8V
				AC 100-240	V, 50/60 Hz					AC 100-240	V, 50/60 H
22.9 W	22 W	22 W	22 W	22.9 W		30 W		36	6 W	76 W max.	86 W ma
275 x 110 x 390 mm	308 x 118 x 442 mm	308 x 118 x 442 mm	308 x 118 x 442 mm	315 x 91 x 297 mm		44	4 x 130 x 500		819 x 169 x 565 mm	1027 x 16 x 565 mr	
3.3 kg (7.3 lbs.)	4.0 kg (8.8 lbs.)	4.2 kg (9.3 lbs.)	4.2 kg (9.3 lbs.)	3.0 kg (6.62 lbs.)	6.6 kg (14.6 lbs)	6.8 kg (15.0 lbs.)	6.8 kg (15.0 lbs.)	6.9 kg (15.2 lbs.)	7.1 kg (15.7 lbs.)	15.5 kg (34.9 lbs.)	19 kg (41.9 lbs.
AC Adaptor, Owner's Manual, Tech. Specs, CUBASE AI download info	Owner's Manual, Tech. Specs, AC power cord	Owner's N power cor	Manual, Tech. d, CUBASE Al info	Specs, AC I download	Owner's Manual, Tech. Specs, AC power cord, Rackmount kit, CUBASE AI download info Rack- mount kit			Owner's Ma Spe AC power o mour	ecs, ord, Rack-		
FC5 Foots- witch	RK-MG12 Rack- mount kit		Rackmount ootswitch	FC5 Foots- witch	-	FC5 Fo	otswitch	-	FC5 Foots- witch	FC5 Foc	otswitch
				0 to +40	° Celsius					0 to +40	^o Celsius



AUDIO SOLUTIONS FOR CONFERENCING

With new and ever-changing communication requirements, one thing remains the same: the need for high-quality, worry-free audio for collaboration. ADECIA helps organizations overcome challenges with implementation, configuration and room acoustics by providing all components required for a successful installation - designed to work seamlessly together to reduce set up time, costs and complexities.

Complete and Customizable Communications Solutions

ADECIA







COMPLETE COVERAGE FROM SOUND INPUT TO OUTPUT

ADECIA helps organizations overcome challenges with implementation, configuration and room acoustics by providing all components required for a successful installation - designed to work seamlessly together to reduce set up time, costs and complexities.

REDUCE TIME, SPEND AND COMPLEXITIES

Audio/control signals can be transmitted with one network cable using the audio network standard, "Dante", solving troublesome wiring and installation problems.

NATURAL AND COMFORTABLE CONVERSATION EXPERIENCES

Each microphone is equipped with various processing functions and when combined with Yamaha's original voice processing technology "HVAD" (Human Voice Activity Detection), it provides a smooth and stress-free remote conferencing experience. HVAD is Yamaha's technology to distinguish human voice from background noises. HVAD captures human voices and suppresses background noises, delivering a clear signal to the far end no matter where you meet.

BEST AUDIO IN SHORTEST TIME

ADECIA automatically detects all components and configures them to be optimized for the room environment, taking into consideration location of speakers and microphones, reverberation characteristics of the room, and echo behavior. Setting up a room can be as easy as following the configurator through four steps of configuration

CUSTOMIZATION OPTIONS TO FIT YOUR USE CASE

By offering a wide range of variations such as ceiling array microphones, tabletop array microphones, and wireless microphone systems, ADECIA meets the demands of different audio solutions for each conference, meeting or learning space and provides operations suitable for various environments.

INTEGRATION INTO ALL AUDIO ENVIRONMENTS

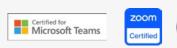
Equipped with various interfaces such as USB, Bluetooth®, SIP, and analog audio input/output terminals, the system allows the flexibility to use both web conference systems and telephone line conferences. Supporting Windows, macOS, iOS and Android, as well as compliance with market leading UC applications, ADECIA gives you the flexibility to customize the solution to your specific needs.

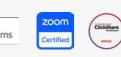


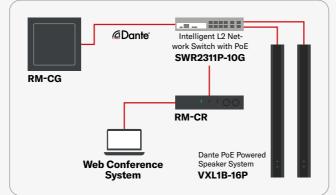
FLEXIBLE APPLICATION SUPPORT

CEILING SOLUTION

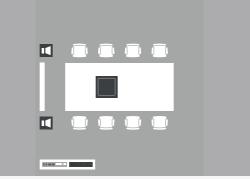
WITH A SIMPLE AND SOPHISTICATED DESIGN, THE UNIT **BLENDS INTO HIGH-END SPACES AND ENABLES A CLEAN** AND CLEAR TABLE.











WIRELESS SOLUTION

FLEXIBILITY TO CHOOSE BETWEEN GOOSENECK AND BOUNDARY MICROPHONES TO ADAPT TO YOUR USE-CASE, CREATING THE MOST COMFORTABLE CONFERENCING SPACE WITHOUT WORRYING ABOUT WIRING OR CONFIGURATION CHANGES SHOULD THE LAYOUT CHANGE.



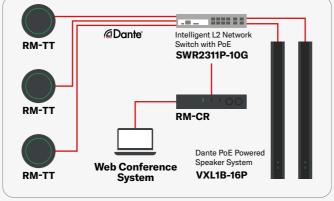
ClickShare

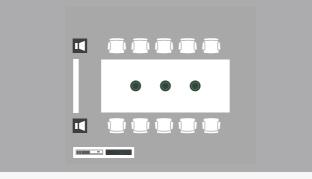
TABLETOP SOLUTION

SCALE AND EXPAND YOUR COVERAGE WITH THE ABILITY TO INCREASE THE NUMBER OF MICROPHONES USED TO FIT YOUR PARTICIPANT COUNT. UP TO 14 MICROPHONE PODS (4 MICS PER POD) SIMPLY CONNECT TO THE POE SWITCH.



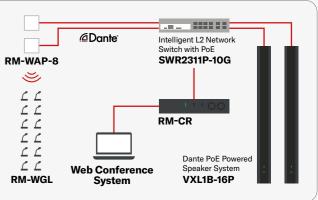


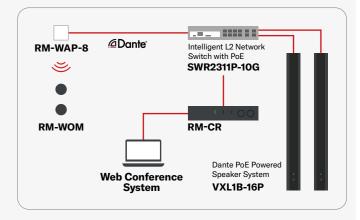






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CUSTOMIZATION

THE NEW YAMAHA ADECIA MICROPHONE COMPONENTS CAN ALSO BE INTEGRATED WITH OTHER YAMAHA OR THIRD PARTY COMPONENTS FOR REQUIRED SOLUTIONS WITH THE OPEN API.

* ProVisionaire or RM Device Finder may be required, please refer to the reference guide for details.

• ProVisionaire: customizable control panel software for Yamaha PA systems

• RM Device Finder: application software for searching RM components in the network

CUSTOMIZATION OPTIONS

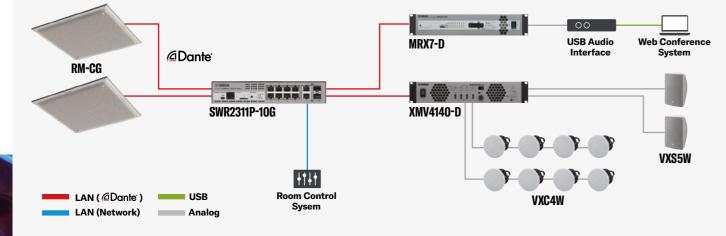
THE OPEN INTERFACES AND STANDARDS BASED INTEGRATION OPTIONS OF THE ADECIA COMPONENTS ALLOW EASY INTEGRATION IN OTHER CUSTOMIZED SOLUTIONS. SOME EXAMPLES OF THAT ARE:

- Expand the number of microphones beyond the number supported within the ADECIA solution
- · Expand solutions to peripheral devices not part of the ADECIA family, e.g. amplifiers or speakers

RM-CG SYSTEM EXAMPLE

YAMAHA CUSTOMIZED CONFIGURATION EXAMPLE

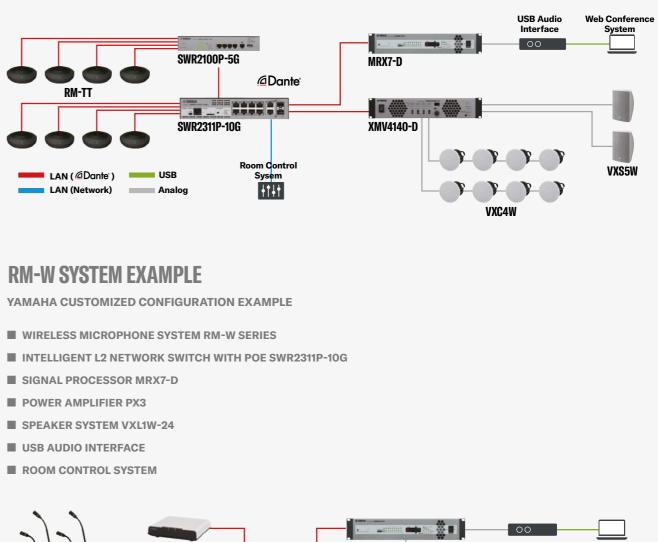
- CEILING ARRAY MICROPHONE RM-CG
- INTELLIGENT L2 NETWORK SWITCH WITH POE SWR2311P-10G
- SIGNAL PROCESSOR MRX7-D
- POWER AMPLIFIER XMV4140-D
- CEILING SPEAKER VXC4W
- SPEAKER SYSTEM VXS5W
- USB AUDIO INTERFACE
- ROOM CONTROL SYSTEM

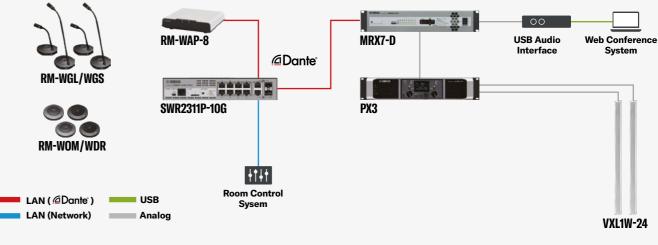


RM-TT SYSTEM EXAMPLE

YAMAHA CUSTOMIZED CONFIGURATION EXAMPLE

- TABLETOP ARRAY MICROPHONE RM-TT
- SIMPLE L2 NETWORK SWITCH WITH POE SWR2100P-10G
- SIMPLE L2 NETWORK SWITCH WITH POE SWR2100P-5G
- SIGNAL PROCESSOR MRX7-D
- POWER AMPLIFIER XMV4140-D





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CEILING SPEAKER VXC4W SPEAKER SYSTEM VXS5W **USB AUDIO INTERFACE** ROOM CONTROL SYSTEM

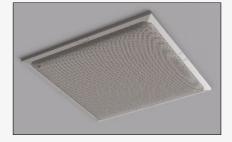


RM-CG

CEILING ARRAY MICROPHONE



DETAILS





CEILING MOUNT

WIRE MOUNT



Multi-beam Tracking is a signal processing technology that can track multiple speaking participants by combining the use of beamforming technology to form directivity with multiple microphone elements to pick up sound. With multiple beams, each beam tracks different speakers' voices when multiple speakers are present.

QUICK SPECIFICATIONS

	RM-CG			
DIMENSIONS	W 560 × D 560 × H 90 mm			
WEIGHT	5.6 kg			
AUDIO I/O DANTE	1in/2out			
SAMPLING RATE	48 kHz			
BIT DEPTH	24 bit			
FREQUENCY RESPONSE	160 Hz – 16 kHz (-10 dB)			
SENSITIVITY	-23.8 dBFS/Pa			
DYNAMIC RANGE	118.6 dBA			
SIGNAL PROCESSING	Multi Beam Tracking, Adaptive Echo Canceler, Noise Reduction, Dereverberation, Auto Mixer, Auto Gain Control, Parametric EQ, Output Gain			

CEILING ARRAY MICROPHONE

A ceiling array microphone equipped with unique audio signal processing technology that enables high-quality communication

KEY FEATURES

- "MULTI-BEAM TRACKING" THAT SCANS FOR HUMAN VOICE AND TRACKS SIMULTANEOUS SPEECH ALLOWING FOR LIVELY CONVERSATIONS
- UTILIZES INNOVATIVE YAMAHA TECHNOLOGIES LIKE ADAPTIVE ECHO CANCELLER, AUTO GAIN CONTROL, NOISE REDUCTION, AND DEREVERBERATION
- AUTOMATIC DETECTION AND CONFIGURATION WITH REMOTE CONFERENCE PROCESSOR RM-CR
- STANDARD NETWORK AUDIO SUPPORT FOR "DANTE"
- UTILIZES ONE NETWORK CABLE CONNECTION AVOIDING TROUBLESOME WIRING AND ENABLING AUDIO CONTROL VIA DANTE
- SUPPORTS 3 TYPES OF MOUNTING METHODS FOR USE WITH A VARIETY OF CEILING CONDITIONS

VESA MOUNT



With a simple and sophisticated design, the unit blends into high-end spaces and enables a clean and clear table.



RM-TT

TALETOP ARRAY MICROPHONE



DETAILS





DIFFERENT OPERATING MODES DISPLAYED VIA LEDS

AUTO VOICE TRACKING





SPECIAL CABLE ROUTING SIMPLIFIES INSTALLATION TABLETOP MOUNTING ADAPTOR

QUICK SPECIFICATIONS

	RM-TT					
DIMENSIONS	W140 mm × D140 mm × H41.5 mm					
WEIGHT	310 g					
AUDIO I/O DANTE	1in / 2 Out					
SAMPLING RATE	48 kHz					
BIT DEPTH	24 bit					
FREQUENCY RESPONSE	160 Hz – 16 kHz (-10db)					
SENSITIVITY	-12.8 dBFS/Pa					
DYNAMIC RANGE	100.5 dBA					
SIGNAL PROCESSING	Auto Voice Tracking, AEC, NR, Dereverberation, Auto Mixer, AGC, User PEQ, Output Gain, Selectable Polar Pattern					
POLAR PATTERN MODI	Cardioid, Hyper Cardioid, Super Cardioid, Omni, Bi-Directional, Toroid					

TABLETOP ARRAY MICROPHONE

Tabletop array microphones provide a comfortable sound environment with no configuration needed

KEY FEATURES

- AUTO VOICE TRACKING ALLOWS FOR FLEXIBLE ROOM LAYOUT AND PARTICIPANT POSITIONING
- 6 TYPES OF MICROPHONE DIRECTIVITY TO CHOOSE FROM, DEPENDING ON YOUR ENVIRONMENT AND AUDIO NEEDS
- ACHIEVES COMFORTABLE SOUND QUALITY USING THE INTEGRATED ADAPTIVE ECHO CANCELLER, AUTO GAIN CON-TROL, NOISE REDUCTION, AND DEREVERBERATION
- WHEN USING AUTO VOICE TRACKING, RM-CR AUTOMATICALLY SELECTS THE MICROPHONE ELEMENT THAT PROVIDES THE BEST AUDIO SIGNAL OF THE VOICE
- STANDARD NETWORK AUDIO SUPPORT FOR "DANTE"
- THE INCLUDED ACCESSORY ALLOWS FOR FIXED INSTALLATIONS OF THE MICROPHONES ON TABLES



HIGH STABILITY, AUTOMATICALLY ADAPTED TO THE ENVIRONMENT



USER FRIENDLY DESIGN, AVAILABLE IN BLACK AND WHITE



RM-W SERIES

WIRELESS MICROPHONE SYSTEM



WIRELESS MICROPHONE SYSTEM

Flexible wireless microphones system customized to your use case

DETAILS





RM-WDR WIRELESS DIRECTIONAL TABLETOP MICROPHONE

RM-WOM WIRELESS OMNIDIRECTIONAL



RM-WGL WIRELESS 30CM GOOSENECK MICROPHONE



RM-WGS WIRELESS 15 CM GOOSENECK MICROPHONE

QUICK SPECIFICATIONS

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	RM-WDR	RM-WOM	RM-WGL	RM-WGS			
DIMENSIONS	W89.0 x H26.0 x D89.0 mm	W89.0 x H26.0 x D89.0 mm	W89.0 x H308.0 x D89.0 mm	W89.0 x H171.0 x D89.0 mm			
WEIGHT	130g	130g	152g	140g			
AUDIO I/O DANTE	1in/2out	1in/2out	1in/2out	1in/2out			
SAMPLING RATE	48 kHz	48 kHz	48 kHz	48 kHz			
BIT DEPTH	24 bit	24 bit	24 bit	24 bit			
FREQUENCY RESPONSE	160 Hz – 16 kHz (-10 dB)	160 Hz – 16 kHz (-10 dB)	160 Hz – 16 kHz (-10 dB)	160 Hz – 16 kHz (-10 dB)			
SENSITIVITY	-15.4dBFS/Pa	-14.0dBFS/Pa	-20.0dBFS/Pa	-20.0dBFS/Pa			
DYNAMIC RANGE	76.1dBA	82.2dBA	77.6dBA	77.6dBA			
SIGNAL PROCESSING	Adaptive Echo Canceller, Noise Reduction, Dereverberation, Auto Gain Control, Parametric EQ, Output Gain						
DIRECTIVITY	Unidirectional (Sensitibity: 120°)	Omnidirectional (Sensitivity: 360°)	Unidirectional (Sensitivity: 90°)				

KEY FEATURES

- WIRELESS SYSTEM USING 1.9GHZ, COMPOSED OF ACCESS POINT, MICROPHONE, AND CHARGING STATION
- THE ACCESS POINT SUPPORTS 16 CHANNELS (RM-WAP-16) OR 8 CHANNELS (RM-WAP-8)
- AVAILABLE MICROPHONES: 15 CM GOOSENECK, 30 CM GOOSENECK, OMNIDIRECTIONAL BOUNDARY AND CARDIOID DIRECTIONAL BOUNDARY
- APPROXIMATELY 20 HOURS OF CONTINUOUS MICROPHONE OPERATION TIME USING THE INCLUDED LI-ION BATTERY
- STANDARD NETWORK AUDIO SUPPORT FOR "DANTE"
- THE WEB UI SETUP WIZARD ALLOWS FOR EFFORTLESS CONFIGURATION, MICROPHONE PAIRING, AUDIO ROUTING, AND OTHER SYSTEM MANAGEMENT

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TABLETOP MICROPHONE



RM-WAP-16/RM-WAP-8 16/8 CHANNEL WIRELESS ACCESS POINT



RM-WCH-8 MICROPHONE CHARGING STATION



RM-CR

REMOTE CONFERENCE PROCESSOR

5



REMOTE CONFERENCE PROCESSOR

Signal processor at the heart of the ADECIA

KEY FEATURES

- UP TO 4 UNITS OF RM-CG, OR 14 RM-TT MICROPHONES, OR 2 RM-WAP-8 ACCESS POINTS, AND 2 VXL1-16P SPEAKERS CAN BE CONNECTED TO THE PROCESSOR
- AUTOMATICALLY RECOGNIZES CONNECTED DEVICES ON THE SAME NETWORK FOR AUDIO ROUTING
- EQUIPPED WITH THE AUTO TUNING FUNCTIONS THAT AUTOMATICALLY MEASURE AND PROVIDE THE OPTIMUM SOUND SETTINGS FOR THE ENVIRONMENT
- INCLUDES THE AUTO MIXER FUNCTIONS THAT AUTOMATICALLY OPTIMIZES THE MIXING BALANCE OF AUDIO INPUT **VIA DANTE**
- SUPPORTING VARIOUS INPUT/OUTPUT CONNECTIONS SUCH AS USB, VOIP, ANALOG AUDIO, AND BLUETOOTH
- STANDARD NETWORK AUDIO SUPPORT FOR "DANTE"; ALL COMPATIBLE DEVICES CAN BE CONNECTED WITH NET-WORK CABLES

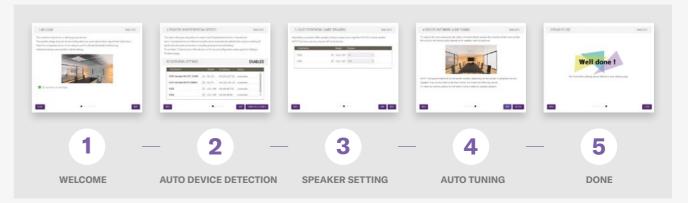
DETAILS



RM-MRK OPTIONAL RACK MOUNT KIT

QUICK SETUP

FOLLOW THE SETUP WIZARD ON YOUR WEB BROWSER AND WITH JUST A FEW CLICKS IT WILL AUTOMATICALLY ADJUST THE AUDIO ACCORDING TO YOUR SYSTEM'S AUDIO ROUTING AND ROOM ENVIRONMENT.



QUICK SPECIFICATIONS

	RM-CR
DIMENSIONS	W215 mm x D260 mm x H44 mm
WEIGHT	1.6 kg
AUDIO I/O DANTE	16in/16out
SAMPLING RATE	48 kHz
BIT DEPTH	24 bit
FREQUENCY RESPONSE	160 Hz – 16 kHz (-10 dB)
USB	USB 2.0, Audio Class 1.0, Input: 2ch, Output: 2ch @48 kHz
MIC INPUT	XLR balanced, Input 2ch
AUX	RCA unbalanced (Line Level), Input: 2ch, Output: 2ch
SPEAKER OUT	RCA unbalanced (Line Level), Output: 2ch

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RM-MTL OPTIONAL TABLE MOUNT KIT



SPECIFICATIONS PROCESSORS & MICROPHONES

		NETWORKED PROCESSOR	NETWORKED N	KED MICROPHONES	
		RM-CR	RM-CG	RM-TT	
DEVICE		Remote conference processor	Ceiling Array microphone	Table Top array microphone	
DIMENSIONS W X H X D		215 x 44 x 260 mm	560 x 90 x 560 mm	140 x 41.5 x 140 mm	
WEIGHT		1.6 kg	5.6 kg	310 g	
POWER REQUIREMENTS		PoE+ class 3 (IEEE802.3at, LLDP)	PoE class 3 (IEEE 803af)	
MAXIMUM POWER CONSUMPTION		15 W	7.2 W	4.5 W	
POWER CONNECTOR		RJ45	RJ4	45	
APPROXIMATE	TALK	-	-		
BATTERY TIME	STAND BY	-	-		
	CHARGE	-	-		
OPERATING	TEMPERATURE	0°C ~ 40°C	0°C ~	40°C	
ENVIRONMENT - IN OPERATION	HUMIDITY	30 % ~ 90 %	30 % ~	90 %	
OPERATING	TEMPERATURE	-	-		
ENVIRONMENT - CHARGING	HUMIDITY	-	-		
OPERATING	TEMPERATURE	-20°C ~ 60°C	-20°C ~	~ 60°C	
ENVIRONMENT - STORAGE	HUMIDITY	20 % ~ 90 %	20 % ~	90 %	
INDICATORS		Power indicator, Status indicator, Bluetooth indicator, Network port indicator x 3			
BUTTONS		-	-		
MOUNT		-	Ceiling mount, Wire mount, VESA table to mount		
MAXIMUM DEVICE NUMBER WITH RM-CR		-	14	14	
DUST PROTECTION		-	IP5X for (with terminal cover)	-	
PLENUM RATING		-	UL2043 (with terminal cover)	-	
ETHERNET		Dante, Remote Control, Web UI, PoE+	Dante, Remote Co		
CABLE REQUIREMENTS		Ethernet1/2/3: CAT5e or higher (STP) USB Network: USB Cable (A-microB)	CAT5e or hi	igher (STP)	
AUDIO I/O	DANTE	16 in, 16 out	1ch in, 2	2ch out	
	USB	USB2.0, Audio Class 1.0, Input: 2ch, Output: 2ch @48kHz	-		
	MICROPHONE	XLR Balanced, Input: 2ch (-46dBu nominal, -26dBu max)	-		
	AUX	RCA Unbalanced (Line Level), Input: 2ch (-14 dBv nominal, +6 dBv max), Output: 2ch (-14 dBv nominal, +6 dBv max, 1kΩ)	-		
	SPEAKER OUT	RCA Unbalanced (Line Level), Output: 2ch (-14 dBv nominal, +6 dBv max, 1kΩ)	-		
	BLUETOOTH	Version 4.2 Supported Profiles: HFP (1.6), A2DP, AVRCP; Supported Codec: CVSD, SBC, mSBC; Wireless Out- put: Class2; Maximum Communi- cation Distance: 10m (32.8ft) (no obstacles); Radio Frequency (Operational Frequency): 2,402MHz - 2,480MHz; Maxi- mum Output Power (EIRP): 4.0dBm (2.5mW)			

WIRELESS MICROPHONES				WIREL	FSS R
RM-WDR RM-WOM RM-WGL RM-WGS			RM-WAP8/RM-WAP16	RM-WCH-8	
Wireless directional tabletop microphone	Wireless omni- directional tabletop microphone	Wireless 30cm gooseneck microphone	Wireless 15cm gooseneck microphone	8-channel / 16-Channel Wireless Acces Point	Wireless microphone charging station
89 x 26	x 89 mm	89 x 308 x 89 mm	89 x 171 x 89 mm	171 x 43 x 172.5 mm	304 x 41.5 x 188 mm
30 g (including battery)	126 g (including battery)	152 g (including battery)	140 g (including battery)	RM-WAP-16: 812 g (including mounting bracket), RM-WAP-8: 650 g (including mounting bracket)	800 g
	Rechargable Li-ion Ba	attery 3.6V 2350mA/h		PoE class 3 (IEEE 803af)	DC 16V 2.4A
	3.5	5 W		9.6 W	32 W
	USB type C, 4	1P charger I/F		RJ45	DC IN
	20	hrs		-	-
	7 d	ays		-	-
	full: 5 hrs,	80%: 3 hrs		-	-
	0°C ~	40°C		0°C ~	40°C
	20% -	~ 85%		30 % ~	~ 90 %
	5°C ~	40°C		-	-
	20% -	~ 85%		-	-
	-20°C	~ 60°C		-20°C -	~ 60°C
	10% -	~ 85%		20 % ~	~ 90 %
	Microphone indic	cator (3 colors) x 1		Power indicator (3 colors) x 1, Status indi- cator (3 colors) x 1	activate (3 colors) x 1
Mi	crophone button x 1, Batte	ery button x 1, PAIR button	x 1	reset	activate x 1, pair x 1
	table	e top		Wall mount, Ceiling mount (with blacket), Flat placing	-
	:	2		2	_
		-		-	-
		-		-	-
		-		Dante, Remote Control, Web UI, PoE	_
		-		CAT5e or higher (STP)	-
				1ch in, 16 ch out	-
		-		-	-
		-			-
	-				-
-					-
	-				-



SPECIFICATIONS PROCESSORS & MICROPHONES

		NETWORKED PROCESSOR	NETWORKED N	AICROPHONES
		RM-CR	RM-CG	RM-TT
AUDIO I/O	SIP	Call Handling: Dial, Answer, Hold, Resume, Forwarding, Do not disturb, Redial, Call timer, Call ID, Voice mail notifications (switch configured) Call Bridging: Supports bridging SIP, USB, BT and AUX calls. Join, Split, Hold, Resume, 5+1 lines: up to 2 SIP calls, 1 USB call, 1 Bluetooth call, 1 AUX, Plus the user Codecs: G.711, G.722HD, G.729ab, G.726 DTMF Support: RTP event, SIP in-band, SIP info package Security: SRTP support (RFC 1889), IETF SIP support (RFC 3261 and companion RFCs)		-
WIRELESS	RADIO FREQUENCY	-		-
	MAX RF POWER LEVEL	-		-
	MAX COVERAGE DISTANCE	-		
	ENCRYPTION	-		-
SAMPLING RATE		48 KHz	48	kHz
BIT DEPTH		24 bit	24	bit
LATENCY (INCLUDE PROCESSING)		8 ms (Dante in to USB out)	58 ms (including signal processing) 22 ms (low-latency mode)	46 ms (including signal processing, except for toroidal directivity) 50ms (including signal processing, for toroidal directivity) 20 ms (low-latency mode excep for toroidal directivity) 23 ms (low-latency mode for toroidal directivity)
FREQUENCY RESPONSE (-10DB)		20 Hz - 20 kHz	160 Hz -	- 16 kHz
SIGNAL PROCESSING			Multi-beam Tracking, Adaptive Echo Canceller, Noise Reduction, Dereverberation, Auto Mixer, Auto Gain Control, Parametric EQ, Output Gain	Auto Voice Tracking, Selectable Polar Pattern (Cardioid, Hyper- cardioid, Super-cardioid, Omnidirectional, Bidirectional, Toroid), Adaptive Echo Canceller, Noise Reduction Dereverberation, Auto Mixer, Auto Gain Control, Parametric EQ, Output Gain
MICROPHONE DIRECTIVITY			Multi-beam Tracking	selectable
MAXIMUM INPUT LEVEL			117.8 dB SPL	106.8 dB SPL
SELF NOISE			-0.8 dB(A)	6.3 dB(A)
SN RATIO (REF. 94DB SPL AT 1KHZ)			94.8 dB(A)	87.7 dB(A)
SENSITIVITY			-23.8 dBFS/Pa	-12.8 dBFS/Pa
DYNAMIC RANGE			118.6 dBA	100.5 dB(A)
ACCESSORIES		Installation manual, USB cable (A-B) 5m (16.4ft), USB cable (A-microB) 1m (3.3ft), Rubber foot x 4, Access panel. Options: Rack Mount Kit RM-MTL, Table Mount Kit RM-MRK	Construction description, (Guar- antee), Grille x 1, Screws for grille (M3 x 8mm) x 5*, Screw cover x 4, Cutting template x 1, C ring x 1, Screws for C ring x 2, Hanger an- gle x 1, Screws for hanger angle (M4 x 20mm) x 5*, Terminal cover x 1, Safety wire x 1, Binding band x 1, Clamp plate x 2	Installation manual, Tabletop mounting adapter, Screw for mounting x 3, Spacer x 3

WIRELESS MICROPHONES			WIRE	WIRELESS R		
RM-WDR	RM-WOM	RM-WGL	RM-WGS	RM-WAP8/RM-WAP16	RM-WCH-8	
	DECT 1.9 GHz (1880 N	IHz ~ 1900 MHz)		1.9 GHz DECT (1880 MHz ~ 1900 MHz)	-	
	26.5 dB	m		26.5 dBm	-	
	50m (depends on usa	ge environment)		50m (depends on usage environment)	-	
	AES 256	-bit		AES 256-bit	-	
	48 kH	Z		48 KHz	-	
	24 bit	:		24 bit	-	
	160 Hz – 10	6 kHz			-	
Ac	laptive Echo Canceller, Noise I Auto Gain Control, Paramo	Reduction, Dereverberat etric EQ, Output Gain	ion,		-	
Directional 120o	Omni-directional 360o	Directio	nal 90o		-	
109.4 dB SPL	108.0 dB SPL	114.0 d	IB SPL		_	
33.3 dB(A)	35.8 dB(A)	36.4 (dB(A)		-	
60.7 dB(A)					_	
-15.4 dBFS/Pa	-14.0 dBFS/Pa	-20.0 dl	BFS/Pa			
76.1 dB(A)	82.1 dB(A)	77.6 c	B(A)	-		
	Battery (RM-WBT) x 1, C)wner's manual x 1		Owner's manual x 1, Mounting bracket x 1	Owner's manual x AC adapter x 1, Pow cable x 1 (for US)/3 (for Europ	



PRODUCTS FOR UNIFIED COMMUNICATIONS



Audio and video conferencing solutions from Yamaha streamline collaboration and boost productivity wherever people need to speak openly, share freely and create exceptional things. Yamaha's considered approach to building enterprise-grade microphone systems, conference phones ensures exceptional audio quality, ease of connectivity and flexibility for meetings across the table or across the globe. With core tenets of simplicity, clarity and efficiency, Yamaha brings to unified communications a passion for sound and performance that has been creating excitement and inspiration for more than 130 years.







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CS-500 / CS-800

VIDEO COLLABORATION SYSTEMS

Certified for	zoom
Microsoft Teams	Certified

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VIDEO COLLABORATION SYSTEMS

FOR THE MOST ACCURATE, REAL-TIME HYBRID COLLABORATIONEXPERIENCE IN HUDDLE ROOMS TO COMBINE VOICE AND VIDEO DATA FOR FASTLY IMPROVED UNIFIED COMMUNICATIONS

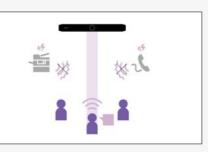
Yamaha's Video Collaboration Systems utilizes the latest AI technology to harmonize voice and video data to deliver the most accurate, real-time hybrid collaboration experience. Using the positioning data provided from BOTH the voice and camera pickup, Yamaha's new SoundCap Eye™ technology pinpoints participant locations to deliver a seamless and immersive tracking experience unlike any other. It's like a skilled movie director, cameraman and sound director working together behind the scenes!

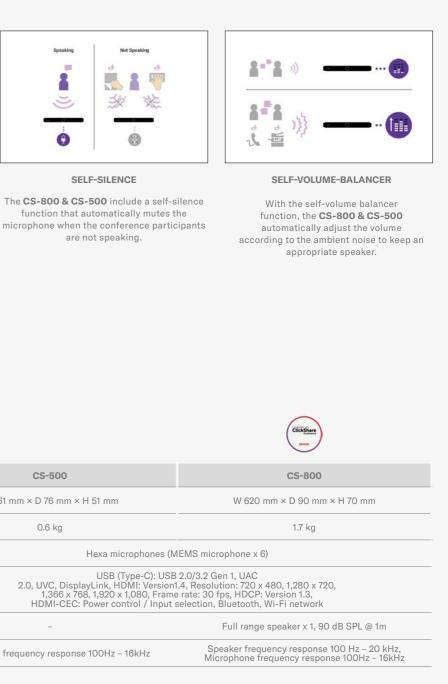
KEY FEATURES

- SOUNDCAP EYE[™] DISTINGUISHES VOICE VS. NOISE
- 4K CAMERA WITH SMART FRAMING
- **EASY-LAUNCH FOR QUICK AND SMART COLLABORATION**
- **DUAL REMOTE INTERFACE**
- **CONTENT SHARE USING DISPLAY LINK**
- ONE USB CONNECTION
- EMBEDDED SPEAKER (CS-800)

SoundCap Eye[™] DISTINGUISHES VOICE VS. NOISE

SoundCap Eye utilizes the camera and audio pickup to distinguish voices vs. ambient noise. By narrowing in on only voices within the camera frame and a defined meeting area size, the technology can better determine participation location and block out unwanted background noise and voices in potentially noisy environments like open workspaces and open meeting areas.





FACE FOCUS BEAMFORMING

Face Focus Beamforming picks up your conversations while reducing the distracting noise around you. The $\ensuremath{\text{CS-500}}$ & CS-800 camera tracks the faces of participants in the meeting area using AI and limits the audio beams to these locations.

OUICK SPECIFICATIONS

D

	CS-500
DIMENSIONS	W 261 mm × D 76 mm × H 51 mm
VEIGHT	0.6 kg
/IICROPHONES	Hexa m
NTERFACE	USB 2.0, UVC, DisplayLink, H 1,366 x 768, 1,920 HDMI-CEC: Power co
IAXIMUM VOLUME	_
REQUENCY BANDWIDTH	Microphone frequency response 100Hz



FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 234

ESB-1090

ENTERPRISE SOUND BAR

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BRING RICH SOUND OUTPUT AND PREMIUM SOUND QUALITY FOR MIDDLE-SIZED ROOMS

The enterprise sound bar ESB-1090 is the ideal product to install with flat-screen TVs at offices, schools and hotels. Including 2 built-in subwoofers, dome tweeters, and full range speakers, the ESB-1090 delivers rich sound output and premium sound quality for middle-sized rooms. Offering 3 preset modes, "Conference mode", "Education mode" and "Hotel mode" optimized for remote conference/education, for optimal content sharing output!

KEY FEATURES

- FULL RANGE SOUND BY 2 BUILT-IN SUBWOOFERS
- **3** PRESET MODES OPTIMIZED FOR CONFERENCE ROOMS, CLASSROOMS AND HOTEL GUEST ROOMS
- FLAT OR WALL-MOUNT INSTALLATION WITHOUT BRACKET
- SIMPLE AND SLIM DESIGN, IDEAL FOR MODERN ROOM DESIGN

DETAILS





IN EDUCATION AND CONFERENCE MODE, THE SOUND IS OPTIMIZED FOR CONVERSA-TION, YOU CAN HEAR THE FAR-END VOICE CLEARLY.





THE SOUND BAR INCORPORATES 2 BUILT-IN SUBWOOFERS, DOME TWEETERS, AND FULL RANGE SPEAKERS.

INTUITIVE CONNECTION TO REMOTE COMMUNICATIONS

QUICK SPECIFICATIONS

ESB-1090
Installing the unit in front of a TV, etc.: 8 Mounting the unit on a wall, with spacers:
3.4 kg
-
Digital Optical 1, Network (Ethernet1, Wir (HDMI OUT (ARC)), Analog 1
Max SPL: 96 dB a
62 Hz to 23,000

ITS SIMPLE AND SLIM DESIGN MATCHES NATURALLY ANY SPACE AND FLAT-SCREEN TV SETUP



IN HOTEL MODE, YOU CAN ENJOY TV OR MUSIC CONTENT SHARING ON YOUR DEVICE

USER-FRIENDLY DESIGN FOR FAST,

890 (W) x 53 (H) x 131 mm (D) s: 890 (W) x 131 (H) x 62 mm (D

reless1), Output Jacks: HDMI 1 1 (Subwoofer out)

at 1 M

00 Hz



YVC-200

SPEAKERPHONE



TAKING THE OFFICE OUTSIDE

Portable USB and Bluetooth speakerphone enables natural and reliable remote communication no matter where you work. Bring it in your bag and take the office outside!

KEY FEATURES

- YAMAHA'S PROFESSIONAL QUALITY DSPS
- SUPER WIDEBAND AUDIO (FS 32 KHZ) FOR AMPLE, CLEAR SOUND
- **360 DEGREES AND MAXIMUM RADIUS 2 M MICROPHONE PICK UP RANGE**
- USB CONNECTION FOR LAPTOPS
- BLUETOOTH / NFC CONNECTIONS FOR PHONES AND TABLETS
- **RECHARGEABLE BATTERY FOR UP TO 10-HOUR USE**

DETAILS



POWERED BY RECHARGEABLE BATTERY FOR COMPLETELY PORTABILITY UP TO 10 HOURS OR LONGER







MULTI-PLATFORM COMPATIBILITY, SEAMLESS CONNECTIVITY WITH ANY REMOTE CONFERENCE SYSTEM



EXCELLENT PORTABILITY, WITH CARRYING CASE

OUICK SPECIFICATIONS

	YVC-200
PARAMETER	
INTERFACE	USB 2.0 Full Speed (Micro-B), Bluetooth, NFC (Near Field Communication), 3.5 mm headset jack (Stereo OUT/Monaural IN)
POWER SOURCE	Lithium-ion rechargeable battery (Continuous usage time: approx. 10 hours, 3.6 V/2250 mAh/8.1 Wh (typ.)), USB bus powered
DIMENSIONS	140 (W) × 43 (H) × 140 (D) mm
WEIGHT	0.28 kg
MICROPHONES	Omnidirectional microphone x 1
SPEAKERS	45 mm Full-range speaker x 1
FREQUENCY BANDWIDTH	200 Hz - 16,000 Hz
SIGNAL PROCESSING	Adaptive echo canceller, Noise reduction, Automatic gain control, Human Voice Activity Detection (HVAD)

HIGH STABILITY AUTOMATICALLY ADAPTED TO THE ENVIRONMENT



WITH BOTH USB AND BLUETOOTH® INTERFACES, THE YVC SERIES CAN START REMOTE COMMUNICATION SIMPLY SMARTPHONE OR TABLET



360 DEGREES MICROPHONE PICK UP RANGE



YVC-330

SPEAKERPHONE



VIRTUAL MEETING SOLUTIONS IN OPEN WORKSPACES!

TRANSFORM CONFERENCE ROOMS, OPEN WORKSPACES, AND ANY OFFICE AREA INTO A COMFORTABLE REMOTE COMMUNICATION SPACE.

The YVC-330 is a USB & Bluetooth speakerphone for open workspaces and small to medium-sized conference rooms. With the SoundCap mode, you can transform quiet conference rooms, noisy open workspaces, and any office area into a comfortable remote communication space.

COMMON PROBLEMS WITH REMOTE CONFERENCES IN OPEN WORKSPACES

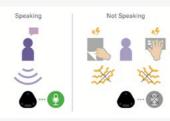
FAR FIELD NOISE REDUCTION



PROBLEM

you clearly. SOLUTION

SELF-SILENCE



especially to far-end participants ..

SOLUTION

PROBLEM

The YVC-330 includes a self-silence function that automatically mutes the microphone when the conference participant is not speaking. By using Yamaha's Human Voice Activity Detection technology, the YVC-330 can detect human voice from other sounds in an instant. Without unnecessary sound whether they are speaking or not.

SELF-VOLUME BALANCER



SOLUTION

PROBLEM

With the self-volume balancer function, the YVC-330 automatically adjusts the volume according to the ambient noise to keep an appropriate speaker volume level at all times. Participants can conduct remote conferences in open spaces without failing to hear conversation, disturbing their surroundings and keeping meeting contents private.

KEY FEATURES

- SOUNDCAP TECHNOLOGY ALLOWS FOR COMFORTABLE REMOTE CONVERSATIONS NO MATTER THE ENVIRONMENT
- SMALL, LIGHTWEIGHT DESIGN POWERED BY USB BRINGS PORTABILITY TO THE OFFICE
- EQUIPPED WITH MARKET-LEADING SOUND SIGNAL PROCESSING TECHNOLOGIES TO ACHIEVE ENHANCED COMMUNICATION
- THREE HIGH-PERFORMANCE UNIDIRECTIONAL MICROPHONES AUTOMATICALLY TRACK VOICE DIRECTIONS,
- "PLUG-AND-PLAY" CONNECTIVITY WITH DRIVER-LESS USB, BLUETOOTH, NFC AND AUDIO IN/OUT CONNECTION
- HIGH COMPATIBILITY WITH ALL UC APPLICATIONS

OUICK SPECIFICATIONS

PARAMETER	
INTERFACE	USB 2.0 Full Speed (Mini-B), Bluetooth,
POWER SOURCE	
DIMENSIONS	23
WEIGHT	
ACCESSORIES	US

Open workspaces can be noisy with sounds from colleague chatter, office equipment and nearby meetings. When having remote conference sessions, your conversation can be disrupted by these noises and far-end participants will have difficulty hearing

Far Field Noise Reduction (FFNR) picks up your conversations while reducing the distracting noise around you. YVC-330 has a 3 microphone array that canacknowledge the sound from your voice verse unwanted background noise.

Even within the virtual walls of a conversation in an open workspace, there can be various surrounding noises that can be picked up. Whether it be the ringing of a phone, computer typing or shuffling of papers, sudden noises can be distracting

When using a speakerphone in open workspaces, speaker output can sometimes be too quiet or too loud when ambient background noise changes, causing missed information or an inconvenience to the surrounding workers.

YVC-330

NFC (Near Field Communication), EXT IN/OUT (stereo mini plug)

USB bus powered

235 (W) x 46 (H) x 226 (D) mm

0.8 kg

ISB cable 3 m, User's Manual



YVC-1000



BRINGING REMOTE COMMUNICATIONS TO LIFE

The YVC-1000 features separate microphone and speaker units that smoothly integrate audio and video for natural, comfortable remote communication.

The high performance, full range speaker unit can be placed close to the display so that audio and video from the remote location blend naturally, while adaptive echo canceller and other Yamaha sound processing technologies facilitate stress-free conversation. The YVC-1000 is also scalable and flexible, and designed to support the audio requirements of large meeting spaces and rooms with unique table configurations - such as classrooms for distance learning and remote training.

Find a speakerphone system that's optimized for your meeting room and conferencing preferences, all backed by Yamaha's industry-leading audio technology.

KEY FEATURES

- EXCELLENT SCALABLE AND FLEXIBLE SOLUTION FOR LARGE MEETING ROOMS
- IDEAL FOR APPLICATIONS FOR REMOTE EDUCATION CLASSES OR SEMINARS
- HIGH-QUALITY SOUND TECHNOLOGIES WITH ADAPTIVE ECHO CANCELLER AND HUMAN VOICE ACTIVITY DETECTION
- AUTOTUNING FUNCTION ANALYZES THE ROOM ENVIRONMENT AND ADJUSTS ACOUSTIC SETTINGS TO THE OPTIMAL LEVEL
- SINGLE CONNECTION WITH USB OR SMOOTH BLUETOOTH CONNECTION INCLUDING NFC TECHNOLOGY
- VVC-1000 IS BARCO CLICKSHARE CERTIFIED

DETAILS





A HIGH QUALITY CONFERENCING EXPERIENCE





IDEAL FOR APPLICATIONS FOR REMOTE EDUCATION CLASSES OR SEMINARS WITH CONNECTING HANDHELD AND HEADSET MICROPHONES

WITH ONLY CONNECTING USB CABLE TO PC, YOU'RE READY TO GO

QUICK SPECIFICATIONS

	YVC-1000	YVC-MIC1000EX
DIMENSIONS	Control Unit (W x H x D): 332 x 95 x 162 mm	Microphone (W x H x D): 136 x 36 x 136 mm
WEIGHT	Control Unit: 1.8 kg	Microphone: 0.4 kg
MICROPHONES	-	Unidirectional Microphones x 3, 360° coverage
AUDIO INTERFACE	USB 2.0 High Speed (B), Bluetooth, NFC (Near Field Communication), Audio Input terminal (stereo RCA pin), Audio Output terminal (stereo RCA pin), External speaker terminal (RCA pin) x 2, Power terminal, Microphone terminal	Input and output terminals
MAXIMUM VOLUME	95 dB (0.5 m)	-
FREQUENCY BANDWIDTH	100 Hz - 20,000 Hz	-

CONNECT ADDITIONAL SPEAKERS AND MICROPHONES FOR LARGER MEETINGS



UP TO FIVE MICROPHONES CAN BE CONNECTED



USER-FRIENDLY DESIGN FOR FAST, INTUITIVE CONNECTION TO REMOTE COMMUNICATIONS



SPECIFICATIONS UNIFIED COMMUNICATIONS

		VIDEO COLLABO	RATION SYSTEMS	
		CS-500	CS-800	
INTERFACE		USB (Type-C): USB 2.0/3.2 Gen 1, UAC 2.0, UVC, DisplayLink, HDMI: Version1.4, Resolution: 720 x 480, 1,280 x 720, 1,366 x 768, 1,920 x 1,080, Frame rate: 30 fps, HDCP: Version 1.3, HDMI-CEC: Power control / Input selection, Bluetooth, Wi-Fi network		
POWER CONSUMPTION (MAX)		15.0 W 42.0 W		
POWER SOURCE		AC 100 - 240	V (50/60 Hz)	
OPERATING ENVIRONMENT -	TEMPERATURE	0 - 4	10° C	
IN OPERATION	HUMIDITY	20 % – 85 % (No	o condensation)	
DIMENSIONS W X H X D		W 261 mm × D 76 mm × H 51 mm	W 620 mm × D 90 mm × H 70 mm	
WEIGHT		0.6 kg	1.7 kg	
SUPPORTED OS		Windows 11, Windows 10, macOS 12, macOS 11, macOS 10.15, Chrome OS		
ACCESSORIES		Read this first, Safety Guide, USB 2.0 cable (Type C-A, 5 m / 16.4 ft), HDMI cable (2 m / 6.6 ft), Remote control (RC-RBTI), Lens cap, Coin battery (CR2032) × 2, AC adaptor with power cord (CW2002100), Cable tie	Read this first, Safety Guide, Quick Guide, USB 2.0 cable (Type C-A, 5 m / 16.4 ft), HDMI cable (2 m / 6.6 ft), Remote control (RC-RBT1), Lens cap, Terminal cover, Coin battery (CR2032) × 2, AC adaptor with power cord (CW2002100), Table stand, Wall mounting bracket, Terminal cover screw (2.5 mm × 8 mm) × 2, Hexagonal screw (M3 × 8 mm) for table stand × 2, Screw (M3 × 8 mm) for wall mounting bracket × 1, Hexagonal wrench	
FIELD OF VIEW (CAMERA AND VID	EO)	(4K) 120 degrees		
RESOLUTION (CAMERA AND VIDEO)	3,840 x 2,160, 2,560 x 1,440, 1,920 x 1,080, 1,280 x 720, 640 x 360		
FRAME CONTROL (CAMERA AND V	IDEO)	Smart framing (Group, Individual, Speaker tracking) or manual, pan-tilt-zoom (PTZ), config- urable preset x 2, Maximum zoom ratio: 5.0x, People detection max distance: 4.5 m		
REMOTE CONTROL		Power, Microphone mute x 2, Speaker volume, Camera ePTZ, Smart framing ON/OFF, Cam- era preset x 2, OSD menu control		
MICROPHONES	MICROPHONES		one (6x MEMS)	
SPEAKERS	SPEAKERS		Full-range speaker x 1	
MAXIMUM SPL @ 1M		-	90 dBSPL (1 m)	
FREQUENCY BANDWIDTH		100 Hz – 16 kHz	Speaker frequency response 100 Hz – 20 kHz, Microphone frequency response 100Hz – 16kHz	
SIGNAL PROCESSING		Adaptive echo canceller, Noise reduction, Automatic tracking, Automatic gain control, Automatic room EQ, Dereverberation, SoundCap Eye (Face focus beamforming, Self-silence, Self volume balancer)		

	SPEAI	KERPHONES	
ESB-1090 (ENTERPRISE SOUND BAR)	YVC-200	YVC-330	YVC-1000
HDMI: 4k/60p 4:4:4, HDR (HDR10, Hybrid Log-Gamma), HDCP2.3, 3D, ARC, CEC, Input Jacks: HDMI 1 (HDMI IN), Digital Optical 1, Network (Ethernet1, Wireless1), Output Jacks: HDMI 1 (HDMI OUT (ARC)), Analog 1 (Subwoofer out), Other Jacks: USB 1 (update only)	USB 2.0 Full Speed (Micro- B), Bluetooth, NFC (Near Field Communication), 3.5 mm headset jack (Stereo OUT/Monaural IN)	USB 2.0 Full Speed (Mini-B), Bluetooth, NFC (Near Field Communication), EXT IN/ OUT (stereo mini plug)	Control Unit: USB 2.0 High Speed (B), Blue- tooth, NFC (Near Field Communication), Audi Input terminal (stereo RCA pin), Audio Outpur terminal (stereo RCA pin), External speaker terminal (RCA pin) x 2, Power terminal, Micro phone terminal, Microphone: Input and outpu terminals
2.5 W30 W (Rated), 4.3 W (Voice Control Ready), Standby Power Consumption: 0.2 W (HDMI control off, network standby off), 1.7/1.9/1.7 W (HDMI control off, network standby on [Wired/Wi-Fi/Blue- tooth], 0.6 W (HDMI control on, network standby off), 2.2 W (HDMI control on, network standby on)	2.5 W		20 W (one connected microphone), 35 W (five connected microphones)
[U.S.A. and Canada models] AC 100 - 120 V, 50/60 Hz, [U.K., Europe and Russia models] AC 100 - 240 V, 50/60 Hz	Lithium-ion rechargeable battery, 3.6 V/2250 mAh/8.1 Wh (typ.), USB bus powered	USB bus powered	[U.S.A. and Canada] AC 120 V (60 Hz), [UK, Europe and Russia] AC 220 - 240 V (50 Hz)
Temperature: 5 - 40°C	0 - 40° C		
30 - 90% (no condensation)	20 - 85%		
Installing the unit in front of a TV, etc.: 890 (W) x 53 (H) x 131 mm (D), Mounting the unit on a wall, with spacers: 890 (W) x 131 (H) x 62 mm (D)	140 × 43 × 140 mm	235 x 46 x 226 mm	Control Unit : 332 x 95 x 162 mm, Microphone: 136 x 36 x 136 mm
3.4 kg	0.28 kg	0.8 kg	Control Unit: 1.8 kg, Microphone: 0.4 kg
-	Windows 10 (32 bit/64 bit), Windows 8.1 (32 bit/64 bit), Windows 7 (32 bit/64 bit), macOS 10.14, macOS 10.13, macOS 10.12		
The unit, Remote Control, Power cord, Optical digital audio cable, Mounting template, Spacers (*2/sheet), Owner's Manual	USB cable 1 m, Quick Start Guide, Safety brochure, Car- rying case	USB cable 3 m, User's Manual	Power cable 3 m, USB cable 5 m, microphone cable 5 m, Quick Start Guide
	Omnidirectional microphone x 1	Unidirectional microphones x 3, 360° coverage	Unidirectional Microphones x 3, 360° coverag
Front L/R: 5.5 cm cone x 2, Tweeter: 2.5 cm dome x 2, Built-in subwoofer: 7.5 cm cone x 2, Output Power: 120 W (Front L/R: 30 W x 2-ch, Built-in subwoofer: 60 W)	Full-range speaker x 1		
96 dB	88 dB (0.5m)	91 dB (0.5m)	95 dB (0.5m)
62 Hz - 23,000 Hz	200 Hz - 16 kHz	190 Hz - 20 kHz	100 Hz - 20 kHz
-	Adaptive echo canceller, Noise reduction, Automatic gain control, Human Voice Activity Detection (HVAD)	Adaptive echo canceller, Noise reduction, Automatic tracking, Automatic gain control, Dereverbera- tion, SoundCap	Adaptive echo canceller, Noise reduction, Automatic tracking, Automatic gain control, Automatic room EQ, Dereverberation, Automa audio tuning



AUDIO VIDEO COMPONENTS

AV ENTERTAINMENT SYSTEMS



FROM A SINGLE ROOM TO A COMPLETE HOTEL, YAMAHA IS A WORLD LEADER IN AV ENTERTAINMENT SYSTEMS FOR HOME AND HOSPITALITY.

Yamaha AV components focus on making sure that every part of the signal chain - from source to listener - delivers pristine, uncoloured sound. At the heart of the range is MusicCast technology, which is designed to share music from the widest selection of sources to a range of high quality indoor and outdoor speakers, which can be located in more rooms than most installations will ever need.

As you would expect, all popular audio formats, including high resolution, are supported. Whether you want your music source to be from popular streaming services or physical, like a CD, LP, USB or hard drive; wired, wireless or a mix of both, MusicCast has a solution. You can even send your choice of music to your own audio system, or source it from an MacOS or iOS device, using Apple AirPlay2. And, in the age of wireless voice control, of course MusicCast can do that too.

For more information please contact your local Yamaha representative.

COMPONENTS





XDA SERIES MULTI-ZONE AMPS





VYNIL 500 MUSICCAST TURNTABLE

CD-S330 CD PLAYER

MUSICCAST



POPULAR STREAMING SERVICES

CONNECTIVITY





ROOM LINKING

MUSICCAST APP







MUSICCAST SURROUND / STEREO

VOICE CONTROL

A-S SERIES POWER AMPLIFIERS



WX SERIES MUSICCAST SPEAKERS

RX SERIES AV RECEIVERS



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ABOUT YAMAHA

NEW PRODUCTS. NEW TECHNOLOGIES. NEW WAYS TO MAKE WAVES.

Welcome to the 2023 Yamaha catalogue, a year where our innovation in sound continues to combine our long history of audio excellence with the very latest technologies. This year we are proud to include new flagship platforms, such as the Active Field Control integrated immersive audio system and the ADECIA professional conferencing system. Both bring new levels of sound excellence and flexibility to different sectors of the market.

Yamaha. A name perhaps most familiar for keyboards, drums and, yes, motorcycles and outboard motors. But what many people do not realise is that the Yamaha Motors Corporation was spun off from the company Mr Torakusu Yamaha founded as Nippon Gakki Ltd as long ago as the 1960s. This left Yamaha Nippon Gakki to concentrate exclusively for the past 60 years on everything that relates to audio - the production of musical instruments, sound reproduction and AV equipment. Of course Yamaha's audio heritage stretches back much further - to the 1880s, when Mr Yamaha pioneered the production of Western musical instruments in Japan. Ever since, the three tuning forks of the Yamaha logo have denoted the three fundamental elements of music: melody, harmony and rhythm. It's a very appropriate symbol for a company with such a long musical heritage.

This is as true in the world of professional audio as it is for Yamaha's musical instrument division. Here you could also think of the Yamaha logo as symbolising the three cornerstones of our products - sound quality, reliability and flexibility. Yamaha has a combination of qualities that few others in the professional sound industry can match: Many decades of experience, our status as a large Japanese conglomerate, hi-tech production techniques, enviable global research/ development facilities and a brand name that very few people have not heard of. Together, they have allowed us to create a culture of quality in every aspect of the business. Highly sophisticated craftsmanship, industrial production quality based on ISO9001 and a philosophy of pure research in acoustics, psycho-acoustics and the physical and mathematical properties of sound. We treat each with equal importance, an approach which has been rewarded with more than 40 international design awards. At the same time we are the only enterprise in the larger AV industry which is listed in the FTSE4 Good Index as a sign of sustainable governance.

But these qualities do not make us a faceless, remote corporation. Far from it. Yamaha is equally committed to the personal touch. Our global customer support is always conducted at a local level and our face-to-face training is a vital part of our ongoing education programme. In addition, you can directly engage with Yamaha experts from across the world in our online Audioversity training webinars.

The products in this catalogue are dedicated to the production, processing and reproduction of sound with quality, reliability and flexibility.

Together let's make waves.

YAMAHA MUSIC EUROPE SUBSIDIARIES

YAMAHA MUSIC EUROPE GMBH HEADQUARTERS Central Europe, Eastern Europe

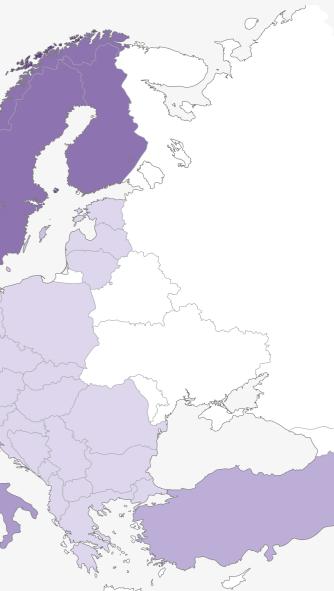
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We at Yamaha have a great history of musical instrument production based on our craftsmanship, engineering, and creative minds, delivering unrivaled variety of product lines to the market. Acoustic instruments range from Recorder Flute to Concert Grand Piano, from Oboe to Violin, from Classical Guitar to Marimba, from Concert Drums to French Horns - but it doesn't stop at acoustics. With the same craftsmanship and innovation, Yamaha pioneered in the development of electronic musical instruments, including Synthesizers, Keyboards, Organs, Electric Guitars, Electronic Drums.







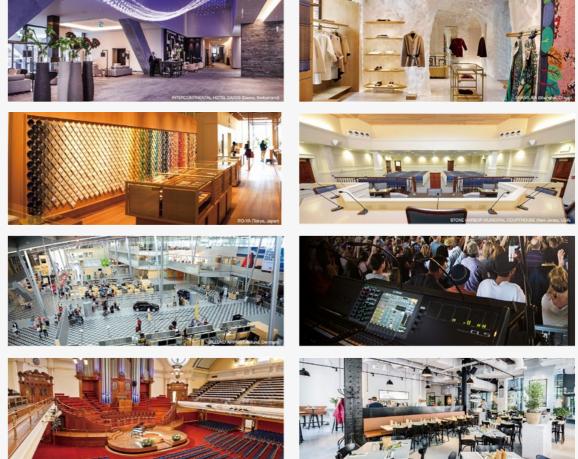
Yamaha entered the professional audio market 45 years ago, knowing exactly how music should sound since Yamaha covers the complete range of acoustic as well as electronic musical instruments.

YAMAHA'S PROFESSIONAL AUDIO division introduced game changing innovations such as the 'matrix' section on modular mixing consoles (PM1000, 1974), Class D power amplifiers (PD2500, 1986), DSP based Active Field Control (AFC, 1987), DSP based mixing consoles (DMP7, 1986) and networked audio distribution (NHB32C, 2003).

All these innovations, combined with a strong focus on quality, made Yamaha the most trusted equipment supplier for any audio application imaginable.



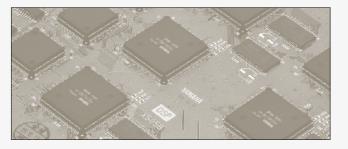








YAMAHA PROFESSIONAL AUDIO Core competences





DSP

Yamaha introduced Digital Signal Processing to the live market in the eighties with the SPX90 digital effect processor, and in the nineties with the DMP7 Digital Mixing Processor. Building on 30 years of DSP experience, the current digital mixer models are built with Yamaha's 7th generation DSP platform and 3rd party DSP platform.

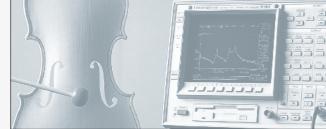


Introducing Cobranet networked systems in 2004, joined by Ethersound systems in 2006, Yamaha evolved with the market to gigabit networked environments, providing the Dante[™] high capacity networked audio protocol. Being involved with networking technologies from the beginning, Yamaha has become one of the most experienced companies in the world – assuring safe investments in networked audio systems.



ELECTRO-ACOUSTICS

With more than 100 million loudspeakers sold, and thousands of acoustic and electro-acoustic designs of concert halls and theaters around the world, Yamaha has a long track record of high quality electro-acoustic systems and products.



AUDIO QUALITY

As the world's largest manufacturer of virtually all kinds of musical instruments, Yamaha professional audio product engineers respect the natural sound of electronic and acoustic musical instruments, offering the highest audio guality possible in their designs.



RELIABILITY

Since the conception of the PM consoles in the sixties, Yamaha understands the value of reliability in the live and recording industry. The result is a track record second to none – thanks to a throroughly maintained ISO9001 certified quality assurance management system.

YAMAHA GLOBAL

- **CORPORATE NAME:** Yamaha Corporation
- ESTABLISHED: October 12, 1897
- GROUP EMPLOYEES: 20,021
- NR. OF SUBSIDIARY COMPANIES: 60
- MUSICAL / AUDIO PATENTS: >10.000
- CONSOLIDATED NET SALES: 437,416 million Yen

http://www.yamaha.com/about_yamaha/corporate/





Quality is one of the core values in the Yamaha Group, upholding an outstanding reputation on sound quality and reliability. Embedded in the Yamaha management, the Professional Audio Division is ISO9001 certified to assure that Yamaha products always live up to the highest quality standards, now and in the future.

HTTP://WWW.YAMAHA.COM

Q QUALITY 😵



The Yamaha Group introduced its ISO14001 environmental management system in 1997. In August 2011, the ISO14001 unification was achieved for all group companies in Japan. Yamaha is listed in some of the world's most prominent SRI (Socially Responsible Investment) indexes, such as the FTSE4 Good Global Index.

HTTP://WWW.YAMAHA.COM

Q CSR

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YAMAHA CENTRAL & EASTERN EUROPE

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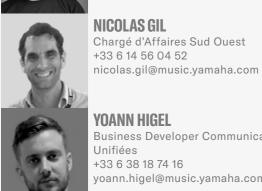
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SYSTEM ENGINEERING GROUP

Specially for the Commercial Installed Systems market a team of engineers is available to support the conceptualization, design and troubleshooting of integrated systems, and to perform Audioversity seminars. The team consists of engineers with a long experience in the professional audio market, especially on the subjects of networking, DSP and electro-acoustics.

The System Engineering Group support activities use project management standards such as ANSI-INFOCOM 2M-2010 Standard Guide for Audiovisual Design and Coordination Processes and NSI-INFOCOM 10-2013 Audiovisual Systems Performance Verification. All System Engineering Group members hold an Audinate Dante level 3 certificate, while selected members hold Avixa CTS or CTS-D certificates.



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AUDIOVERSITY

by Yamaha Pro Audio

Audioversity offers training programs that can help anyone who works with audio deliver better sound for enhanced impact and communication in a broad range of applications. Refine your craft through a comprehensive selection of seminars, webinars, and self-training materials designed to build skills quickly and effectively. Audioversity currently reaches over 100,000 people in more than 50 countries with programs tailored to meet diverse needs, and it continues to grow. Whether you work with sound on a daily basis or are just starting out, join us to elevate your audio artistry to a new level and contribute to a better-sounding world.



REGIONAL TRAINING (ON-SITE/WEBINARS)

These hands-on, Avixa RU certified personal seminars are offered throughout Europe to promote the understanding and effective use of Yamaha professional audio technologies and equipment.



GLOBAL WEBINARS

Our webinars are available globally to ensure that as many participants as possible from around the world can take part. Watch, listen, learn, and ask questions to our panel of expert presenters and developers.





SELF TRAINING

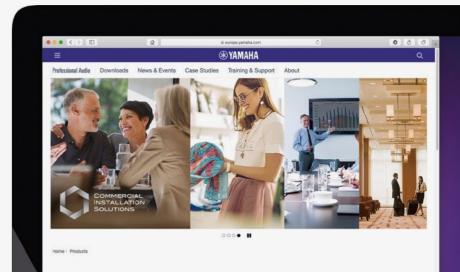
Our self-training program allows busy users to learn at their own pace. Online movies and technical documents are designed to make learning easy.

HTTPS://EUROPE.YAMAHA.COM/EN/PRODUCTS/CONTENTS/PROAUDIO/TRAINING_SUPPORT/INDEX.HTML

WARRANTY

In the European Economic Area (EEA) and Switzerland, a 2-YEAR WARRANTY GUARANTEE is standard for all Yamaha Professional Audio products. An extended warranty guarantee from the date of original purchase guarantee is offered for a variety of speakers, amplifiers and accessories. For details, download the warranty statements from https://europe. yamaha.com/en/products/proaudio/index.html

WEBSITE



Professional Audio



WWW.EUROPE.YAMAHA.COM/EN/PRODUCTS/PROAUDIO provides product information and many download contents for Yamaha pro audio products and services:

- NEWS & REFERENCES
- PRODUCT FEATURES, SPECIFICATIONS AND PHOTOS
- PRODUCT SUGGESTIONS BY APPLICATION TYPE
- APPLICATION AND SYSTEM EXAMPLES
- DOWNLOADS OF SOFTWARE, DATA SHEETS AND MANUALS
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SELF TRAINING

Not everyone has the time to attend Audioversity Training Seminars. Our Self Training program allows busy users to learn at their own pace. Self Training is also a great way to prepare for an actual seminar, or review the information after attending. Online movies and technical documents are designed to make learning easy.

https://europe.yamaha.com/products/contents/proaudio/training_support/selftraining.html

SEMINARS

Hands-on, personal seminars are offered throughout the world to promote the understanding and effective use of Yamaha professional audio equipment. Anyone can attend. You're welcome whether you're a Yamaha user or are simply interested in professional audio.

https://europe.yamaha.com/en/products/contents/proaudio/training_support/europe_training.html

WEBINARS

Our webinars are available globally to ensure that as many participants as possible from around the world can take part. Watch, listen, learn, and ask questions to our panel of expert presenters and developers.

https://europe.yamaha.com/products/contents/proaudio/training_support/webinar.html

FIRMWARE AND SOFTWARE

Mixer and processor firmware as well as driver, editor, manager, and designer software are available for all products – current and legacy. Installation guides and upgrades are also available.

https://europe.yamaha.com/products/contents/proaudio/downloads/firmware_software/index.

FAQ

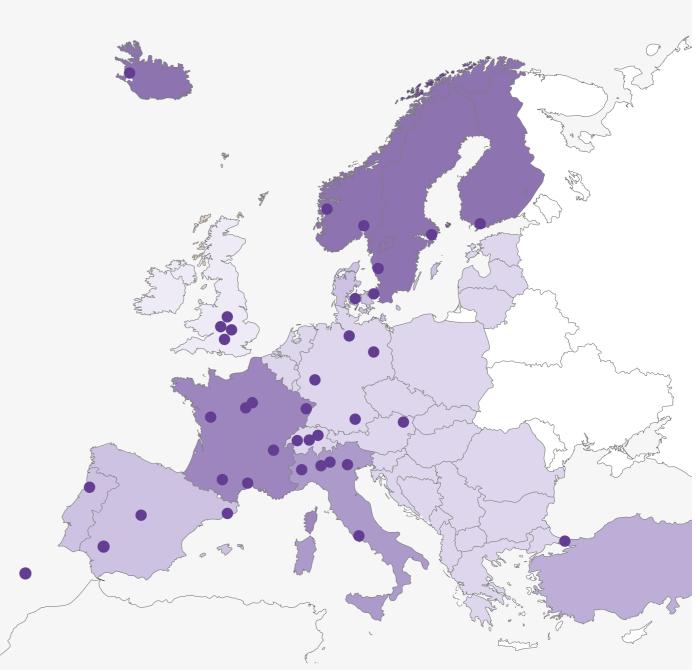
Answers to frequently asked questions on product settings, operation and troubleshooting, as well as useful tips to support concept, design, installation and use of Yamaha systems.

https://europe.yamaha.com/en/products/contents/proaudio/training_support/faq.html

MANUALS

Owner's manuals are organized by product category. Manuals are provided in ".pdf " format.

https://europe.yamaha.com/products/contents/proaudio/downloads/manuals/index.html?k=&c=proaudio&l=en





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