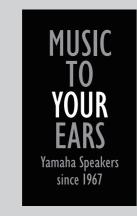




Yamaha Professional Audio Full-line Catalog





YAMAHA CORPORATION P.O.BOX1, Hamamatsu Japan www.yamaha.com/proaudio

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* Specifications and appearance are subject to change without notice.

* Some products in this catalog may not be available in certain regions.

Amendments and errors may occur

VEGETABLE This document is printed with Vegetable Oil Ink.



Printed in Japan

Spring 2018





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. Acoustical 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.





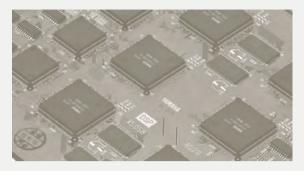
Yamaha entered the professional audio market 45 years ago, knowing exactly how music should sound since Yamaha covers the complete range of acoustic as well as electronic musical instruments.

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, 1985), DSP based mixing consoles (DMP7, 1987) 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 Commercial 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.



NETWORKED AUDIO

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 quality 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: 28,113
- * NR. OF SUBSIDIARY COMPANIES: 76

- * PATENTS AND UTILITY MODELS: over 9,000
- * CONSOLIDATED NET SALES: 3.64 billion U.S. dollar

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

*as of March 31, 2017 *U.S. dollar amounts are translated from yen at the rate of \112.19 = U.S.\$1.00, the approximate rate prevailing on March 31, 2017.

LOCATIONS OF YAMAHA GROUP COMPANIES





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.

www.yamaha.com/en/

Q QUALITY \odot



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.

www.yamaha.com/en/

Q CSR \odot

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www.yamahaproaudio.com	

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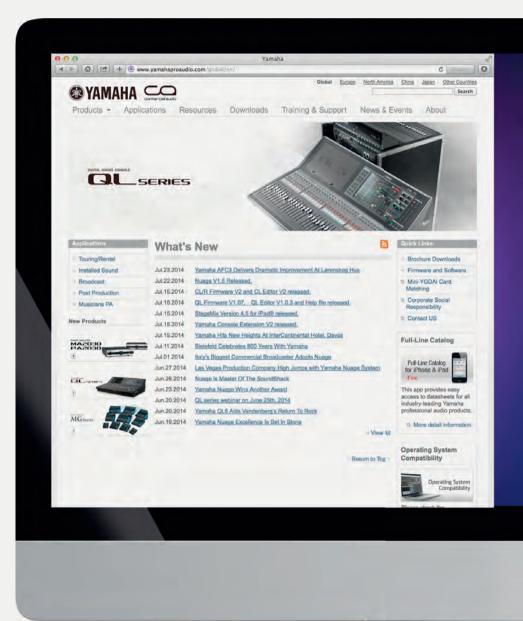
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www.yamahaproaudio.com



www.yamahaproaudio.com

provides product information and many download contents for Yamaha pro audio gear: mixers, processors, power amplifiers, speakers, and more.

- ***** PRODUCT FEATURES, SPECIFICATIONS AND FOTOS
- ***** PRODUCT SUGGESTIONS BY APPLICATION TYPE
- * SYSTEM EXAMPLES FOR INSTALLED SOUND
- * DOWNLOADS OF SOFTWARE, DATA SHEETS AND MANUALS
- * TRAINING AND SUPPORT, DOCUMENTS AND VIDEOS
- ***** PRODUCT BROCHURES
- * THE MINI-YGDAI COMPATIBILITY





Besides high quality products, high quality information is essential to support the design and installation of high quality audio systems. In addition to our engineering support teams and local training seminars, the **www.yamahaproaudio.com** website is a valuable source of on-demand information to support fast and accurate system conceptualization, design and installation. The scope of technical information available is unique in the professional audio market - from training videos to CAD data for individual products, it's all there. And if there's anything more required to finish a job - just call one of our sales engineers and we'll make it happen.





SELF TRAINING

Not everyone has the time to attend the CA 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.



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.



SYSTEM EXAMPLES

From simple store systems through restaurants and conference rooms to large installations catering to hundreds of guests, a selection of total sound solutions using components from the extensive Yamaha lineup is presented.



CAD LIBRARY DXF data files for individual products in compressed ".zip" format.



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



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.



DATA SHEETS

Product outlines, specifications and dimension diagrams are available in ".pdf" or ".zip" format.



SYSTEM DESIGN RESOURCES

System design resources such as CAD data, Datasheets, A&E Specs, Speaker and processing data, protocol specs, and so on are available.



PHOTO LIBRARY

Download high resolution JPG files of our products in the current line-up.



SPEAKER SYSTEMS







VXS SERIES







VXS5/VXS5W

VXS8/VXS8W



VXS10ST/VXS10STW

SURFACE MOUNT SPEAKERS

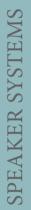
	VXS5/VXS5W	VXS8/VXS8W	VXS10S/VXS10SW	VXS10ST/VXS10STW
POWER RATING PGM (IEC)	150 W	180 W	200 W + 200 W	-
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω + 8 Ω	-
TRANSFORMER TAPS 100V	30W/15W/7,5W	60W/30W/15W	-	200W/100W/50W
TRANSFORMER TAPS 70V	30W/15W/7,5W/3,8W	60W/30W/15W/7,5W	-	200W/100W/50W/25W
SENSITIVITY @1W/1M	89 dB SPL	91 dB SPL	96 dB SPL	96 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	114 dB SPL	117 dB SPL	125dB SPL	-
FREQUENCY RANGE (-10dB)	62Hz - 20kHz	51hz - 20kHz	45hz - 250Hz	45hz - 250Hz
SPEAKER TYPE	2-way bass reflex	2-way bass reflex	Subwoofer	Subwoofer
COVERAGE ANGLE (HXV)	120° x 120°	100° x 100°	-	-
WOOFER	5,25"	8"	10" dual voice coil	10" dual voice coil
TWEETER	0.75" soft dome	1" soft dome	-	-
CONNECTORS	Euroblock 4P x1	Euroblock 4P x1	Euroblock 4P x2	Euroblock 4P x2
DIMENSIONS (W x H x D)	176 x 280 x 163 mm	278 x 430 x 239 mm	260 x 500 x 389 mm	260 x 500 x 389 mm
WEIGHT	3.6 kg	8.2 kg	16.5 kg	19.5 kg
PACKAGING	per pair	per pair		

SOPHISTICATED SOUND AND DESIGN FOR MATCHING ANY APPLICATION

- Series comprises two full-range models and two subwoofers available in either black or white.
- Features newly customized transducers for superb music reproduction as well as crystal clear announcements.
- Full-range models are equipped with internal transformer that allows operation at both high and low impedance.
- VXS10ST(W) comes equipped with an internal transformer, adding stronger bottom end in high impedance systems.
- VXS8(W) and VXS5(W) offer IP35 rated protection, ensuring use in outdoor applications.
- Subwoofers feature 10" dual voice coil with high pass outputs for satellite speakers.
- Comes with a dedicated bracket for safe, trouble-free speaker installation.
- Overload protection circuit provided to protect speaker components.

* MOUNTING ACCESSORIES (INCLUDED)







VXS SERIES F MODEL



COMPACT SURFACE MOUNT SPEAKER

- ₩ 3,5" FULL RANGE SPEAKER
- * ATTRACTIVE, DISCREET DESIGN BY Yamaha DESIGN LABORATORY
- * ACOUSTIC DESIGN FOR SOPHISTICATED NATURAL SOUND, MEMBER OF THE VXS FAMILY
- * AVAILABLE AS LOW-Z AND HIGH-Z WITH 100V TRANSFORMER
- * BLACK AND WHITE FINISH, PAINTABLE
- * 20W FULL RANGE, 105DB PEAK SPL, 150° X 160° COVERAGE



	VXS3F/VXS3FW	VXS3FT/VXS3FTW
POWER RATING	40W	-
NOMINAL IMPEDANCE	8 ohm	-
TRANSFORMER TAPS 100V	-	15W/7.5W/3.8W
TRANSFORMER TAPS 70V	-	15W/7.5W/3.8W/1.9W
SENSITIVITY @1W1M	86 dB SPL *1	86 dB SPL *1
MAX SPL	105 dB SPL	-
FREQ RANGE	130Hz - 20kHz	130Hz - 20kHz
SPEAKER TYPE	Fullrange, Acoustic suspension	Fullrange, Acoustic suspension
COVERAGE ANGLE	150° x 160°	150° x 160°
WOOFER	3,5" full range	3,5" full range
TWEETER	-	-
CONNECTORS	1 x Euroblock (4P) (Input: +/-, Loop Thru: +/-)	1 x Barrier strip (Input: +/-)
DIMENSIONS	184x130x94 mm (184x130x134 mm*2)	184x130x94 mm (184x178x139 mm ^{*2})
WEIGHT	1.0kg (1.1kg*²)	1.0kg (1.7kg [*] 2)
PACKAGING	packaged in pairs	packaged in pairs

*1: Full-space (4 π) , 200Hz to 10kHz pink noise

*2: with bracket (in 0° setup)



- 100V/70V TRANSFORMER FOR VXS3FT (INCLUDED)
 - MOUNTING ACCESSORIES FOR VXS3F (INCLUDED)



VXS SERIES M/S MODEL





VXS1ML - MINI SATELLITE SPEAKERS

- 1.5" Full range speaker with 10W (PGM)
- Minimalistic Design with superior sound quality
- Various ways of installation
- Optional ceiling mount and rail mount kits available
- Black and white finish, paintable
- Very wide coverage (170°)

VXS3S - COMPACT SUBWOOFERS

- Yamaha's unique SR-Bass™ technology
- Easy system expandability
- + Lo-Z (8 Ω)/Hi-Z (70V/100V) switchable
- Optional in-ceiling mount kit available
- Black and white finish, paintable
- Satellite connections













* CMAIMB / CMAIMW CEILING MOUNT ADAPTER FOR VXS SERIES "M MODEL"







* CMA3SB / CMA3SW CEILING MOUNT ADAPTER FOR VXS3S





* RMA1MB RAIL MOUNT ADAPTER FOR VXS SERIES "M MODEL"



GENERAL SPECIFICATIONS

MODEL		VXS1MLB / VXS1MLW	VXS3SB / VXS3SW
SPEAKER TYPE		Full-range, acoustic suspension type	SR-Bass™ type Subwoofer
FREQUENCY RANGE (-10DB)		180Hz-20kHz	65Hz-180Hz
NOMINAL COVERAGE	Н	170°	
	V	170°	-
COMPONENTS	LF		3.5" Cone
COMPONENTS	LF-HF	1.5" Cone	-
POWER RATING	NOISE	5W	20W
	PGM	10W	40W
	PEAK	20W	80W
NOMINAL IMPEDANCE		8Ω	8Ω
SATELLITE IMPEDANCE			8Ω load per satellite output recommended
TRANSFORMER TAPS	100V	-	15W, 7.5W, 3.8W
	70V	-	15W, 7.5W, 3.8W, 1.9W
SPL	Sensitivity (1W; 1m on axis)	79dB SPL *1	79dB SPL *1
	Peak (Cal- culated)	92dB SPL *2	98dB SPL *2
I/O CONNECTORS		Euroblock (2 pin) × 1	TERMINAL BLOCKS(4pin) Input: +/-, Loop-thru: +/-, TERMINAL BLOCKS(8pin) Satellite output:+/- (ST1 ST4)
PROTECTION CIRCUIT	Load protection	Full-range power limiting for protecting network and transducers	Full-range power limiting for protecting network and transducers
SHAPE		Rectangular	Rectangular
CABINET MATERIAL		ABS	ABS
FINISH		VXS1MLB: Black (approximate value: Munsell N3), VXS1MLW: White (approximate value: Munsell N9)	VXS3SB:Black (approximate value:Munsell N3) VXS3SW: White (approximate value:Munsell N9)
DIMENSIONS	W	62mm (2.4") *3	322mm (12.7") *3
	Н	62mm (2.4") *3	162mm (6.4") *3
	D	82mm (3.2") *3	118mm (4.6") *3
NET WEIGHT		0.17 kg (0.37 lbs) *3	2.7kg (6.0 lbs) *3
ACCESSORIES		Wall/Ceiling Bracket	Mounting bracket, Safety wire, Spacer, Screw, Masking sheet
PACKAGING		Packaged each	Packaged each
CERTIFICATE		NFPA70, CE, RoHS	NFPA70, CE, RoHS

*1: VXS1ML: Full-space (4 π) (300Hz-10kHz), VXS3S:Full-space (4 π)

*2: Calculated based on power rating and sensitivity, exclusive of power compression

*3: Speaker only

VXL SERIES



HIGH PERFORMANCE SLIM LINE ARRAY LOUDSPEAKERS

VXL SERIES

High quality audio with visual discretion are two of the key demands for installed loudspeakers in spaces such as houses of worship, boardrooms, lecture theatres and many other situations. Yamaha Commercial Audio's new **VXL1** range column loudspeakers bring sleek, smart sound to virtually any space, based on multiple arrays of the same 1.5" driver which is at the heart of Yamaha's multiple award-winning VXS1ML speaker. Featuring IP35-rated, paintable enclosures in black or white, the VXL1 series includes the VXL1-8 (featuring eight full-range 1.5" drivers), the VXL1-16 (16 full-range 1.5" drivers) and the VXL1-24 (24 full-range 1.5" drivers). Each speaker is supplied as a Lo-Z unit (a Hi-Z option is available). All models measure just 54mm/2.1" wide by 104mm/4.1" deep, with heights of 480mm/18.9" (VXL1-8), 846mm/33.3" (VXL1-16) and 1212mm/47.7" (VXL1-24). Frequency range and sensitivity is exceptionally consistent across the series.

Optional accessories include a high impedance transformer box and range of alternative mounting brackets. As part of Yamaha's acclaimed Commercial Installation Solutions (CIS) range, VXL1 series loudspeakers are designed for fast and seamless incorporation into CIS-based audio networks.

- 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 arrays for increase SPL and extra projection.
- Optional wall mount brackets for 2-axys adjustment.
- Transformer option for 100V operation.
- Paintable, IP35 waterproof design.





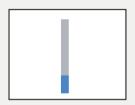


SUPPLIED BRACKET

For seamless wall mounting. *This bracket does not allow angle adjustment

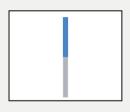


All models are supplied with a wall mounting bracket, while the VXL1-16 and VXL1-24 feature dispersion expander switches which allow the lower vertical dispersion of the array to be easily expanded without having to angle the speaker.



ST-L1

Transformer box for high-impedance connections. Ideal for multiple speaker layouts.



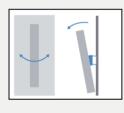
VCB-L1

Bracket for vertical mounting of two arrays, for increased SPL and extra projection. *This VCB-L1 and WMB-L1 are used together.



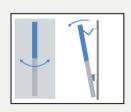
HCB-L1

Bracket for side-by-side mounting of two arrays, for increased SPL and more focused horizontal dispersion that can minimize unwanted reflections from nearby surfaces.



WMB-L1

Bracket for 2-axis adjustment of a single array. *This VCB-L1 and WMB-L1 are used together.



VCSB-L1 Bracket for 2-axis adjustment of a two ve

Bracket for 2-axis adjustment of a two vertically linked arrays.

GENERAL SPECIFICATIONS

		VXL1B-24 / VXL1W-24	VXL1B-16 / VXL1W-16	VXL1B-8 / VXL1W-8
SPEAKER TYPE		Full-range, Bass reflex	Full-range, Bass reflex	Full-range, Bass reflex
FREQUENCY RANG		77 Hz - 20 kHz, 98 Hz - 20 kHz (with port cover)	81 Hz - 20 kHz, 108 Hz - 20 kHz(with port cover)	70 Hz - 20 kHz, 110 Hz - 20 kHz(with port cover)
NOMINAL COVERAGE(-6DB)	HORIZONTAL	170°	170°	170°
	VERTICAL	15°(+7.5°7.5°) (NORMAL), 20°(+7.5°12.5°) (WIDE)	25°(+12.5°12.5°) (NOR- MAL), 30°(+12.5°15°) (WIDE)	40°(+20°20°)
EFFECTIVE	HORIZONTAL	180°	180°	180°
COVERAGE (-10DB)	VERTICAL	25°(+12.5°12.5°) (NOR- MAL), 35°(+12.5°22.5°) (WIDE)	30°(+15°15°) (NORMAL), 45°(+15°30°) (WIDE)	65°(+32.5°32.5°)
COMPONENTS	LF-HF	1.5" (3.75 cm) Cone × 24	1.5" (3.75 cm) Cone × 16	1.5" (3.75 cm) Cone × 8
POWER RATING	NOISE	110 W	80 W	40 W
	PGM	220 W	160 W	80 W
	PEAK	440 W	320 W	160 W
NOMINAL IMPEDA	ANCE	8Ω	12Ω	16Ω
SPL	SENSITIVITY (1W; 1M ON AXIS)	91 dB SPL (1 m/1 W) *1 *2	91 dB SPL (1 m/1 W) *1 *2, (90 dB SPL with port cover)	89 dB SPL (1 m/1 W) *1 *2, (88 dB SPL with port cover)
	PEAK (CAL- CULATED)	117 dB SPL (1 m) *3	116 dB SPL (1 m) *3	111 dB SPL (1 m) *3
I/O CONNECTOR	S	Euroblock (2 pin) × 2 (input: +/-) Max. wire size AWG 12 (3.3 mm ²)	Euroblock (2 pin) × 2 (input: +/-) Max. wire size AWG 12 (3.3 mm²)	Euroblock (2 pin) × 2 (input: +/-) Max. wire size AWG 12 (3.3 mm ²)
PROTECTION CIRCUIT	load pro- tection	Full-range power limiting to pro- tecting network and transducers	Full-range power limiting to protec- ting network and transducers	Full-range power limiting to protec- ting network and transducers
FINISH		VXL1B-24: Black painting (ap- proximate value: Munsell N3.0), VXL1W-24: White painting (ap- proximate value: Munsell N9.0)	VXL1B-16: Black painting (ap- proximate value: Munsell N3.0), VXL1W-16: White painting (appro- ximate value: Munsell N9.0)	VXL1B-8: Black painting (appro- ximate value: Munsell N3.0), VXL1W-8: White painting (appro- ximate value: Munsell N9.0)
DUST AND WATER	RESISTAN	IP34 (IP35 with port cover)	IP34 (IP35 with port cover)	IP33 (IP35 with port cover)
PACKAGING		Packaged in 1 pc	Packaged in 1 pc	Packaged in 1 pc
dimensions (W	XHXD)	W54 × H1212 × D104 mm (Speaker only), W54 × H1212 × D111.5 mm (With included bracket)	W54 × H846 × D104 mm (Spea- ker only), W54 × H846 × D111.5 mm (With included bracket)	W54 × H480 × D104 mm (Spea- ker only), W54 × H480 × D111.5 mm (With included bracket)
WEIGHT		5.5 kg (Speaker only)	3.9 kg (Speaker only)	2.1 kg (Speaker only)
* 1. HALE-SPACE (2	п			

*1: HALF-SPACE (2 ∏)

*2: MEASURED AT 2 M; VALUE CONVERTED TO 1 M IS SHOWN (FREQUENCY RANGE: 100 HZ - 10 KHZ)

- *3: CALCULATED BASED ON POWER RATING AND SENSITIVITY, EXCLUSIVE OF POWER COMPRESSION.
- *0 DBU IS REFERENCED TO 0.775 VRMS.



DISPERSION EXPANDER SWITCH



SUPPLIED BRACKET



OPTIONAL ACCESSORIES



WMB-L1B/WMB-L1W 2-AXIS ADJUSTMENT WALL BRACKET COMPATIBLE MODELS: VXL1-24/16/8 BLACK AND WHITE VERSIONS AVAILABLE



ST-L1B/ST-L1W

TRANSFORMER FOR HIGH-IMPEDANCE SYSTEMS COMPATIBLE MODELS: VXL1-24/16/8 BLACK AND WHITE VERSIONS AVAILABLE



HCB-L1B HORIZONTAL COUPLING BRACKET COMPATIBLE MODELS: VXL1-24/16/8



VCB-L1B Vertical coupling bracket compatible models: vXl1-24/16



VCSB-L1B/VCSB-L1W

VERTICAL COUPLING SUPPORT BRACKET COMPATIBLE MODELS: VXL1-24/16 BLACK AND WHITE VERSIONS AVAILABLE

VXC SERIES





VXC4/VXC4W

CEILING MOUNT SPEAKERS

	VXC4 / VXC4W	VXC6 / VXC6W	VXC8 / VXC8W
POWER RATING PGM (IEC)	60 W	150 W	180 W
TRANSFORMER TAPS 100V	30W/15W/7.5W	60W/30W/15W	60W/30W/15W
TRANSFORMER TAPS 70V	30W/15W/7.5W/3.8W	60W/30W/15W/7.5W	60W/30W/15W/7.5W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M	87 dB SPL	86 dB SPL	90 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	108 dB SPL	111 dB SPL	116 dB SPL
FREQUENCY RANGE (-10dB)	80Hz - 20kHz	56Hz - 20kHz	55Hz - 20kHz
SPEAKER TYPE	Full range, bass reflex	2-way, acoustic suspension	2-way, acoustic suspension
COVERAGE ANGLE	130° conical	110° conical	100° conical
WOOFER	4"	6,5" cone	8" cone
TWEETER	-	0,75" soft dome	1" softdome
CONNECTORS	Euroblock 4P x1	Euroblock 4P x1	Euroblock 4P x1
DIMENSIONS (Ø x D)	225 x 195 mm	286 x 205 mm	325 x 259 mm
WEIGHT	2.6 kg	4.4 kg	6.6 kg
PACKAGING	per pair	per pair	per pair

A VERSATILE LINEUP FOR CLEAR AND CONSISTENT SOUND

- Series offers three different woofer sizes in either black or white.
- The VXC series feature newly customized transducers for superb music reproduction as well as crystal clear announcements.
- Designed with optimized bass-reflex tuning to offer a firm, tight low-end (VXC4).
- Equipped with internal transformers that allow both high and low impedance drive, which can be selected by simply switching the tap on the baffle.
- Anti-Drop tab allows the speakers to be mounted temporarily in the ceiling for improved safety and ease of installation.
- A flexible carrying band makes the speakers very portable and allows carrying multiple speakers at once.
- Come complete with O-rings and tile rails for safer and smoother installation.
- Overload protection circuit provided to protect speaker components.



YAMAHA Commercialeuc

* MOUNTING ACCESSORIES (INCLUDED)



VXC SERIES F-MODEL



VXC3F/VXC3FW



VXC5F/VXC5FW

LOW PROFILE CEILING SPEAKERS

	VXC3F/VXC3FW	VXC5F/VXC5FW
POWER RATING PGM (IEC)	40 W	80 W
TRANSFORMER TAPS 100V	15W/7.5W/3.8W	30W/15W/7.5W
TRANSFORMER TAPS 70V	15 W/7.5W/3.8W/1.9W	30 W/15W/7.5W/3.8W
NOMINAL IMPEDANCE	8 Ω	8 Ω
SENSITIVITY @1W/1M	87 dB SPL	89 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	106 dB SPL	111 dB SPL
FREQUENCY RANGE (-10dB)	71Hz - 20kHz	60Hz - 20kHz
SPEAKER TYPE	Full range, bass reflex	Full range, bass reflex
COVERAGE ANGLE	140° conical	130° conical
WOOFER	3,5" full range unit	4,5" full range unit
TWEETER	-	-
CONNECTORS	Euroblock 4P X 1	Euroblock 4P X 1
DIMENSIONS (Ø x D)	285 × 112 mm	324 × 143 mm
WEIGHT	2.5 kg	3.1 kg
PACKAGING	per pair	per pair

LOW-PROFILE CEILING SPEAKERS DESIGNED FOR SUPERIOR MUSIC REPRODUCTION

- 4.5" full-range speaker unit [VXC5F/VXC5FW]; 3.5" full-range speaker unit [VXC3F/VXC3FW]
- Engineered for optimum BGM reproduction
- Wide coverage allows a single speaker to cover a wide area
- Direct support for low-impedance or high-impedance connections
- Low-profile design facilitates installation in limited ceiling spaces
- Built-in carrying band increases safety during installation
- Anti-drop tab mechanism provide secure temporary positioning during installation
- Double-threaded speaker clamp screws for speedy tightening
- Paintable grilles with magnetic catches
- Black and white versions available

* MOUNTING ACCESSORIES (INCLUDED)



VS SERIES





VS4/VS4W

@ YAMAHA

VS6/VS6W

SURFACE MOUNT SPEAKERS

	VS4 / VS4W	VS6 / VS6W
POWER RATING PGM (IEC)	30 W	50 W
NOMINAL IMPEDANCE	8 Ω	8 Ω
TRANSFORMER TAPS 100 V	15W/7.5W/3.8W	25W/12.5W/6.3W
TRANSFORMER TAPS 70 V	15W/7.5W/3.8W/1.9W	25W/12.5W/6.3W/3.1W
SENSITIVITY @1W/1M	88 dB SPL	90 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	106dB SPL	110dB SPL
FREQUENCY RANGE (-10dB)	100Hz - 20khz	80hz - 20kHz
SPEAKER TYPE	2-way	2-way
COVERAGE ANGLE (HXV)	110° x 110°	90° x 90°
WOOFER	4"	6,5"
TWEETER / COMPRESSION DRIVER	1"	1"
CONNECTORS	2 pair barrier strip	2 pair barrier strip
DIMENSIONS (W x H x D)	152 x 243 x 172 mm	190 x 308 x 219 mm
WEIGHT	1.9 kg	2.8 kg
PACKAGING	per pair	per pair

OUTSTANDING SONIC PERFORMANCE INDOORS OR OUT, PLUS VISUAL SOPHISTICATION THAT WILL COMPLEMENT ANY DÉCOR.

- Compact surface mount speakers with superior sound quality and sleek, functional design.
- Series comprises two models: the VS6 (6.5" woofer) and VS4 (4" woofer) both models feature a 1" balanced dome tweeter and are available in Black or White.
- Waterproof construction meeting the IEC60529 IPX3 rating requirements for outdoor usage.
- Internally mounted transformers allowing operation in 70V or 100V distributed sound systems.
- Dedicated, color-matched steel U-bracket enclosed for horizontal or vertical installation.
- Paintable enclosure and grill to match any decor.
- Overload protection circuit provided to protect speaker components.





* CINECITTA, TILBURG (NETHERLANDS)



* CAFE STYLO, TOKYO (JAPAN)

INSTALLATION SERIES



Supporting even the most demanding multi-cabinet Sound Reinforcement installations, the **INSTALLATION SERIES** offers a range of models that can be combined as required while delivering the most natural sound field possible, with the greatest controllability. The **INSTALLATION SERIES** has been specifically designed to provide an acoustic "white canvas" on which the most delicate tonal gradations will stand out clearly. The entire lineup has been designed with consistent phase characteristics so that they will deliver optimum performance in any combination, and respond smoothly to equalization for unprecedented installation flexibility and natural sound.



INSTALLATION SERIES

- 16 models from 5" to 18"
- 4 different horn dispersion paterns availabyle for 12" and 15" models
- Sound and phase characteristics matched within the range of Installation Series models for optimum performance in any combination.
- Horn can be rotated 90-degrees for vertical or horizontal mounting.
- M8 and M10 suspension points for flexible rigging.
- Broad range of array frames and U-brackets available for flexible mounting
- Parallel-wired Neutrik NL4 and barrier strip connectors.
- Black and white finish available for all models
- Switchable passive and bi-amped mode on 12" and 15" models
- Rotatable and removable logo
- Speaker processing parameters included in DME designer
- Electro-acoustic simulation through YS3 software. CLF and EASE data available.
- IS series speakers and accessories are available on a built to order schedule





IF2205

IF2108

IF2208

	5" AND 8" 2-WAY FULL RANGE SR SPEAKERS			
	IF2205(W)	IF2108(W)	IF2208(W)	
POWER RATING PGM (IEC)	200 W	200 W	400W	
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω	
SENSITIVITY @1W/1M	89 dB SPL	95 dB SPL	95 dB SPL	
MAXIMUM SPL (CALCULATED, 1M)	115 dB SPL	121 dB SPL	124 dB SPL	
FREQUENCY RANGE (-10dB)	65Hz - 19kHz	55Hz - 19kHz	55Hz - 19kHz	
SPEAKER TYPE	2-way	2-way	2-way	
COVERAGE ANGLE	90° x 60° (rotatable)	90° x 60° (rotatable)	90° x 60° (rotatable)	
WOOFER	2 x 5"	8"	2 x 8"	
TWEETER/COMPRESSION DRIVER	1"	1,7"	1,7"	
CONNECTORS	barrier strip	2 x Neutrik NL4 + barrier strip	2 x Neutrik NL4 + barrier strip	
DIMENSIONS (W x H x D)	457 x 146 x 226 mm	283 x 448 x 250 mm	283 x 673 x 250 mm	
WEIGHT	7.5 kg	14 kg	19 kg	









IF2112M

IF2112

IF2112AS

12" 2-WAY FULL RANGE SR SPEAKERS

	IF2112M (64, 95, 99)(W)	IF2112 (64, 95, 99)(W)	IF2112AS(W)
POWER RATING PGM (IEC)	700 W	1200 W	1200 W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M (PASSIVE)	96 dB SPL	96 dB SPL	96 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	126 dB SPL	130 dB SPL	130 dB SPL
FREQUENCY RANGE (-10dB)	55Hz - 20kHz	50Hz - 20kHz	50Hz - 20kHz
SPEAKER TYPE	2-way, passive & bi-amp	2-way, passive & bi-amp	2-way, passive & bi-amp
COVERAGE ANGLE	see model nr.	see model nr.	60°-100° x 60°
WOOFER	12"	12"	12"
TWEETER / COMPRESSION DRIVER	1,7"	3"	3"
CONNECTORS	2 x Neutrik NL4 + barrier strip	2 x Neutrik NL4 + barrier strip	2 x Neutrik NL4 + barrier strip
DIMENSIONS (W x H x D)	378 x 695 x 454 mm	378 x 695 x 454 mm	378 x 695 x 333 mm
WEIGHT	28 kg	31 kg	29 kg





IF2115M

IF2115

IF2115AS

15" 2-WAY FULL RANGE SR SPEAKERS

	IF2115M (64, 95, 99)(W)	IF2115 (64, 95, 99)(W)	IF2115AS(W)
POWER RATING PGM (IEC)	700 W	1200 W	1200 W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M (PASSIVE)	97 dB SPL	97 dB SPL	97 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	128 dB SPL	131 dB SPL	131 dB SPL
FREQUENCY RANGE (-10dB)	45Hz - 20kHz	45Hz - 20kHz	45Hz - 20kHz
SPEAKER TYPE	2-way, passive & bi-amp	2-way, passive & bi-amp	2-way, passive & bi-amp
COVERAGE ANGLE	see model nr.	see model nr.	60°-100° x 60°
WOOFER	15"	15"	15"
TWEETER / COMPRESSION DRIVER	1,7"	3"	3"
CONNECTORS	NeutrikNL4 + barrier strip	Neutrik NL4 + barrier strip	2 x Neutrik NL4 + barrier strip
DIMENSIONS (W x H x D)	448 x 770 x 534 mm	448 x 770 x 534 mm	448 x 770 x 374 mm
WEIGHT	34 kg	39 kg	35 kg

* CONNECTIONS



* WHITE VERSION (W)







IF3115



IH2000

15" 3-WAY SR SPEAKERS



IL1115

	IF3115 (64, 95)(W)	IH2000 (64, 95)(W)	IL1115(W)
POWER RATING PGM (IEC)	1400 W / 250 W	250 W	1400 W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M (BI-AMPED)	97/106 dB SPL	106 dB SPL	97 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	131/133 dB SPL	133 dB SPL	131 dB SPL
FREQUENCY RANGE (-10dB)	45Hz - 20kHz	200Hz - 20kHz	45Hz - 2.5kHz
SPEAKER TYPE	3-way, bi-amp & tri-amp	2-way, passive & bi-amp	Subwoofer
COVERAGE ANGLE	see model nr.	see model nr.	-
WOOFER	15" + 8"	8"	15"
TWEETER / COMPRESSION DRIVER	3"	3"	-
CONNECTORS	Neutrik NL8 + NL4 + barrier strip	Neutrik NL4 + barrier strip	Neutrik NL4 + barrier strip
DIMENSIONS (W x H x D)	610 x 1006 x 600 mm	610 x 591 x 600 mm	610 x 591 x 600 mm
WEIGHT	64 kg	33 kg	38 kg





IS1215

IS1118

IS1218

	SUBWOOFERS			
	IS1112(W)	IS1215(W)	IS1118(W)	IS1218(W)
POWER RATING PGM (IEC)	1400 W	2800 W	1400 W	2800 W
NOMINAL IMPEDANCE	8 Ω	4 Ω	8 Ω	4 Ω
SENSITIVITY @1W/1M	93 dB SPL	97 dB SPL	96 dB SPL	99dB SPL
MAXIMUM SPL (CALCULATED, 1M)	127 dB SPL	134 dB SPL	130 dB SPL	136 dB SPL
FREQUENCY RANGE (-10dB)	45Hz - 2kHz	40Hz - 2.5kHz	33Hz - 3kHz	33Hz - 3kHz
SPEAKER TYPE	Subwoofer	Subwoofer	Subwoofer	Subwoofer
WOOFER	12"	2x15"	18"	2x18"
CONNECTORS	Neutrik NL4 + barrier strip			
DIMENSIONS (W x H x D)	378 x 394 x 454 mm	448 x 883 x 610 mm	610 x 591 x 709 mm	610 x 1006 x 709 mm
WEIGHT	24 kg	63 kg	44 kg	76 kg

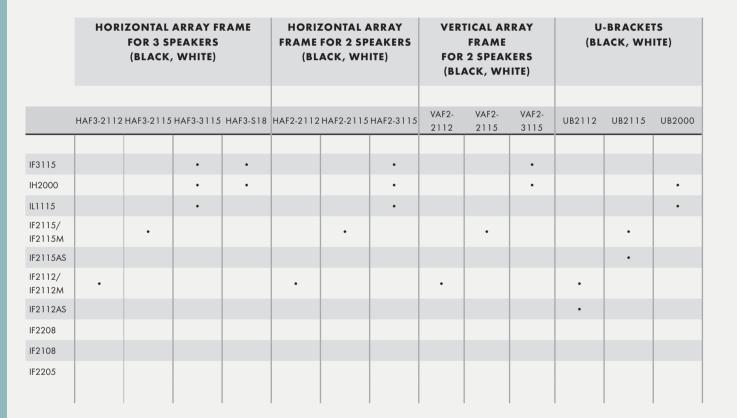


* WHITE VERSION (W)



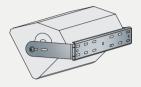












U-BRACKETS (BLACK, WHITE)			CEILING BRACKETS	WALL BRACKETS		BATON BRACKETS
UB2208	UB2108	UB2205	BC\$251	BW\$251-300	BWS251-400	BBS251
•	•		•	•	•	•
		•	•	•	•	•



CZR / CXS XLF SERIES

The **CZR** and **CXS XLF SERIES** of passive loudspeakers and subwoofers offer high power handling and outstanding sonic performance in a portable, lightweight yet rugged design. The CZR series is ideal for a range of live performance and installed sound environments - from live bands at outdoor festivals to DJ's in clubs. The CZR series deliver crystal clear, high quality sound with impressive bass response. The CXS series deliver an extended low frequency response at best-in-class SPL.



CZR AND CXS XLF SERIES

- HF : 2" voice coil and 1" throat compression driver, titanium diaphragm
- LF: 3" voice coil and neodymium magnet for CZR, 4" voice coil and ferrite magnet for CXS XLF
- High power input and Bi-amp capable
- 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
- M8, M10 and M8 rigging points





CZR15

- 15"/2" FULL RANGE
- 1600W / 129dB PEAK SPL



CZR12

- 12"/2" FULL RANGE
- 1600W / 129dB PEAK SPL



CZR10

- 10"/2" FULL RANGE
- 1600W / 127dB PEAK SPL



CXS18XLF

- 18" SUB WOOFER
- 2000W / 133dB PEAK SPL



CXS15XLF

- 15" SUB WOOFER
- 1600W/ 131dB PEAK SPL

REAR PANELS



CZR



CZR WEDGE PLACEMENT



GENERAL SPECIFICATIONS

			CZR15	CZR12	CZR10	CXS18XLF	CXS15XLF
SYSTEM TYPE		2-way Speaker, Bo	iss-reflex Type		Subwoofer, Bass-reflex Type		
FREQUENCY RANGE (-10DB)	PASSIVE		43 Hz - 20 kHz	43 Hz - 20 kHz	43 Hz - 20 kHz	32 Hz - 3kHz	33 Hz - 3.5kHz
	NORMAL *1		34 Hz - 20 kHz	42 Hz - 20 kHz	46 Hz - 20 kHz	32 Hz - 150 Hz	35 Hz - 150 Hz
	EXTEND *1		33 Hz - 20 kHz	38 Hz - 20 kHz	43 Hz - 20 kHz	29 Hz - 150 Hz	33 Hz - 150 Hz
COVERAGE ANGLE			H90° x V50° Rotatable Constant Directivity Horn	H90° x V60° Rotatable Constant Directivity Horn	H90° x V60° Rotatable Constant Directivity Horn	-	-
CROSSOVER			Passive 2.0 kHz (Bi-amp selec- table)	Passive 2.0 kHz (Bi-amp selec- table)	Passive 2.5 kHz (Bi-amp selec- table)	Recommendati- on: 29 Hz - 150 Hz ('extend', with DSP)	recommendati- on: 36 Hz - 120 Hz ('extend', with DSP)
NOMINAL IMPEDANCE	PASSIVE		8Ω	8Ω	8Ω	8Ω	8Ω
	BI-AMP		LF: 8Ω, HF: 16Ω	LF: 8Ω, HF: 16Ω	LF: 8Ω, HF: 16Ω	-	-
POWER RATING	PASSIVE	NOISE	400 W	400 W	350 W	500 W	400 W
(EIA 426-A)		PGM	800 W	800 W	700 W	1000 W	800 W
		MAX	1600 W	1600 W	1400 W	2000 W	1600 W
POWER RATING	BI-AMP	NOISE	LF: 400W, HF: 50W	LF: 400W, HF: 50W	LF: 350W, HF: 50W	-	-
(LF: EIA 426-A)		PGM	LF: 800W, HF: 100W	LF: 800W, HF: 100W	LF: 700W, HF: 100W	-	-
(HF: AES)		MAX	LF: 1600W, HF: 200W	LF: 1600W, HF: 200W	LF: 1400W, HF: 200W	-	-
SENSITIVITY	PASSIVE		97dB SPL	97dB SPL	95dB SPL	100 dB SPL	98 dB SPL
(1W, 1M)	BI-AMP		LF: 99dB SPL, HF: 108dB SPL	LF: 97dB SPL, HF: 108dB SPL	LF: 95dB SPL, HF: 108dB SPL	-	-
MAXIMUM SPL	PASSIVE		129 dB SPL	129 dB SPL	127 dB SPL	133 dB SPL	130 dB SPL
(CALCULATED, 1 M)	BI-AMP		LF: 131dB SPL, HF: 131dB SPL	LF: 128dB SPL, HF: 129dB SPL	LF: 126dB SPL, HF: 127dB SPL	-	-
TRANSDUCER		LF	15"" Cone, 3" Voice Coil, Neodymium magnet	12" Cone, 3"Voice Coil, Neodymium magnet	10" Cone, 3"Voice Coil, Neodymium magnet	18" Cone, 4"Voice Coil, Ferrite magnet	15" Cone, 4" Voice Coil, Ferrite magnet
		HF	2" Voice Coil, 1" T diaphragm, Neody	hroat Compression mium magnet	Driver, Titanium	-	-
ENCLOSURE MATERIAL, FINISH, COLOR		Plywood, Durable	Polyurea coating, Bl	ack	Plywood, Durable Polyurea coating, Black		
FLOOR MONITO	r angle		50° Symmetrical	50° Symmetrical	50°	-	-
DIMENSIONS (WXHXD, WITH R	UBBER FEET)"		450x761x460 mm	410 x 646 x 394 mm	315 x 537 x 345 mm	550 x 657 x 720 mm	450 x 587 x 600 mm
NET WEIGHT			21.3 kg	18.0 kg	14.0 kg	43.6kg	35.6 kg
HANDLES			Aluminium die-cast	r, Side x 2	Aluminium die- cast, Top x 1, Side x 1	Aluminium die-ca	st, Side x 2
POLE SOCKET		$\Phi35$ mm, (Dual angle 0° or -7°)			Φ35 mm (depth 80mm), M20 threaded (depth 25mm)		
rigging Points			M10 x 12 points		M10 x 8 points, M8 x 2 points	-	-
CONNECTORS			SpeakON NL4MP	x 2 (Parallel)		SpeakON NL4MI Output x1)	P x 3 (Parallel x2,
OPTIONAL BRAC	KET		UB-DZR15H/V	UB-DZR12H/V	UB-DZR10H/V	SPW-1	
OPTIONAL COV	ER		SPCVR-DZR15	SPCVR-DZR12	SPCVR-DZR10	SPCVR-DXS18X	SPCVR-DXS15X



OPTIONAL MOUNTING U-BRACKETS FOR CZR SERIES



UB-DZR15H



UB-DZR12H



UB-DZR10H



UB-DZR15V



UB-DZR12V



UB-DZR10V

OPTIONAL COVERS



SPVCR-DZR15



SPVCR-DXS18X



SPVCR-DZR12



SPVCR-DXS15X



SPVCR-DZR10



SPW-1

OPTIONAL CASTERS FOR

CXS15XLFCXS18XLF

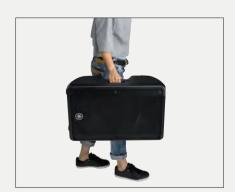
CBR SERIES



The **CBR SERIES** is a new 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 high-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.



CBR10



- Custom designed transducers and wide-dispersion constant directivity horn for powerful high-definition sound
- HF protection and highly responsive LF unit for reliable performance at any output level
- Rugged, highly portable enclosure design
- Simple connectivity
- Smart enclosure design for floor monitoring
- Rigging points for installation applications



CBR SERIES PASSIVE SR LOUDSPEAKERS

	CBR15	CBR12	CBR10
POWER RATING PGM (IEC)	500 W	350 W	350 W
NOMINAL IMPEDANCE	8 Ω	8 Ω	8 Ω
SENSITIVITY @1W/1M (PASSIVE)	96 dB SPL	96 dB SPL	94 dB SPL
MAXIMUM SPL (CALCULATED, 1M)	126 dB SPL	125 dB SPL	123 dB SPL
FREQUENCY RANGE (-10dB)	46Hz - 20kHz	48Hz - 20kHz	50Hz - 20kHz
SPEAKER TYPE	2-way, bass reflex	2-way, bass reflex	2-way, bass reflex
COVERAGE ANGLE	90° x 60°	90° x 60°	90° x 60°
WOOFER	15"	12"	10"
TWEETER / COMPRESSION DRIVER	1.4"	1.4"	1"
CONNECTORS	1x speakON NL4MP, 1/4″ PHONE	1 x speakON NL4MP, 1/4" PHONE	1x speakON NL4MP, 1/4" PHONE
DIMENSIONS (W x H x D)	455 x 700 x 378 mm	376 x 601 x 348 mm	308 x 493 x 289 mm
WEIGHT	17.7 kg	13.9 kg	9.4 kg

OPTIONAL ACCESSORIES

FUNCTIONAL SPEAKER COVERS

SPCVR-1501

INNER POCKET FRONT COVER FRONT MESH



REAR ROOF

COMPATIBLE SPEAKERS

 SPCVR-0801 	DXR8
• SPCVR-1001	DXR10, DBR10, CBR10
• SPCVR-1201	DXR12, DBR12, CBR12

HANDLE SLIT

SPEAKER BRACKETS



* BBS251 BATON BRACKET



* BCS251 CEILING BRACKET



REVERSE FACE INNER CUSHION

POLYESTER SURFACE WITH

PVC COATING BACKSIDE

* **BWS251-300/400** WALL BRACKET



* EYE BOLTS (NOT INCLUDED)

CONCERT CLUB V SERIES

Musicians all over the world made the first four generations of Yamaha American Series Speakers incredibly popular. Generation V continues this success story: larger enclosures for improved low-frequency performance, improved drivers for higher power hand-ling, redesigned crossovers, stronger grills, and dual speakON[®] and 1/4" connectors.

- * IDEALLY MATCHED TO EMX POWERED MIXERS OR PX-SERIES AMPLIFIERS
- * FOR INSTALLATION APPLICATIONS FLYING (VA) VERSIONS AVAILABLE
- * 35 MM POLE SOCKETS (ON ALL NON-FLYING MODELS)

A SOPHISTICATED SPRAY-FINISH LOOK WITH THE LEGENDARY CLUB V SOUND (C TYPE).



CM10V



CM12V



CM15V



C112V



C112VA

	CM10V	CM12V	CM15V	C112V	C112VA
TYPE	10" 2-way bass reflex	12" 2-way bass reflex	15" 2-way bass reflex	12" 2-way bass reflex	12" 2-way bass reflex
FREQUENCY RANGE POWER HANDLING (PROGRAMME)	70Hz-20kHz (-10dB) 250 Watts	60Hz-16kHz (-10dB) 350 Watts	55Hz-16kHz (-10dB) 500 Watts	60Hz-16kHz (-10dB) 350 Watts	60Hz - 16kHz (-10dB) 350 Watts
IMPEDANCE	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω
SENSITIVITY (1W,1M)	96dB	97dB	99dB	97dB	97dB
COMPONENTS					
LF DRIVER	10"cone	12"cone	15" subwoofer	12"cone	12"cone
HF DRIVER	1 ″vc, Ph	2" pressure chamber, Ti			
MISCELLANEOUS					
TEXTURED PAINT	•	•	•	•	•
HANDLE	Strap handle x1	Recessed handle, metal x1	Recessed handle, metal x1	Recessed handle, metal x2	-
INPUT TERMINALS	speakON x2, jack x2	Terminal connection			
WEIGHT					
DIMENSIONS (WXHXD) NET WEIGHT	556 x 349 x 273 mm 13.3 kg	628 x 410 x 339 mm 21.8 kg	715 x 339 x 343 mm 28.8 kg	416 x 628 x 329 mm 21.3 kg	416 x 620 x 329 mm 21.8 kg









C115V

C115VA

C215V



CW218V

C115V	C115VA	C215V	CW115V	CW118V	CW218V
15" 2-way bass reflex	15" 2-way bass reflex	15"x2 2-way bass reflex	15" bass reflex	18" bass reflex	18"x2 bass reflex
55Hz - 16kHz(-10dB) 500 Watts	55Hz - 16kHz(-10dB) 500 Watts	42Hz - 16kHz(-10dB) 1000 Watts	35Hz - 2kHz(-10dB) 500 Watts	30Hz - 2kHz(-10dB) 600 Watts	30Hz - 2kHz(-10dB) 1200 Watts
8 Ω	8 Ω	4 Ω	8 Ω	8 Ω	4 Ω
99dB	99dB	99dB	95dB	96dB	98dB
15" cone	15" cone	15" cone x2	15" cone	18" cone	18" cone x2
2" pressure chamber, Ti	2" pressure chamber, Ti	2" pressure chamber, Ti	-	-	-
•	•	•	•	•	•
Recessed handle, metal x2 speakON x2, jack x2	- Terminal connection	Recessed handle, metal x2 speakON x2, jack x2			
485 x 715 x 373 30.3 kg	485 x 707 x 373 mm 29.9 kg	491 x 1163 x 593 47.5 kg	500 x 607 x 528 28 kg	605 x 720 x 637 37.2 kg	1217 x 574 x 655 64.7 kg

CONCERT CLUB V SERIES

DURABLE CARPETED EXTERIORS AND STUNNING SOUND FOR THE RIGORS OF THE ROAD (S TYPE).



5V

S

S115V

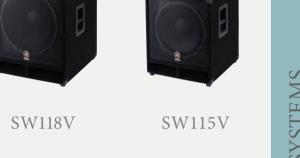
S112V

SM15V

SM12V

		\$215V	\$115V	\$112V	SM15V	SM12V
ТҮРЕ		2-way bass-reflex			2-way bass-reflex	
FREQUENCY RANGE (-10DB)		42Hz-16kHz	55Hz-16kHz	60Hz-16kHz	55Hz-16kHz	60Hz-16kHz
NOMINAL COVERA (HORIZONTAL X VE		90° x 40°			40° x 90°	
NOMINAL IMPEDANCE		4Ω	8Ω		8Ω	
POWER RATING	NOISE	500W	250W	175W	250W	175W
	PGM	1000W	500W	350W	500W	350W
	MAX	2000W	1000W	700W	1000W	700W
SENSITIVITY (1W,1M)		99dB SPL		97dB SPL	99dB SPL	97dB SPL
COMPONENT	LF	15" cone x 2	15" cone	12" cone	15" cone	12" cone
	HF	CD horn + 2" voice coil compression driver			CD horn + 2" voice coil compression driver	
CONNECTORS		1/4" phone jack x 2, SPEAKON Neut- rik NL4MP x 2			1/4" phone jack x 2, SPEAKON Neut- rik NL4MP x 2	
DIMENSIONS (W X H X D)		495 x 1167 x 597mm	489 x 719 x 377mm	420 x 632 x 333mm	719 x 483 x 343mm	632 x 414 x 351mm
WEIGHT		47.2kg	29.4kg	20.8kg	28.0kg	21.4kg







SM10V

SW218V

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		SM10V	SW218V	SW118V	SW115V
ТҮРЕ			Bass-reflex		
FREQUENCY RANGE (-10DB)		70Hz-20kHz	30Hz-2kHz	30Hz-2kHz	35Hz-2kHz
NOMINAL COVERAGE (HORIZONTAL X VERTICAL)		40° x 60°	-		
NOMINAL IMPEDANCE			4Ω		
POWER RATING	NOISE	125W	600W	300W	250W
	PGM	250W	1200W	600W	500W
	MAX	500W	2400W	1200W	1000W
SENSITIVITY (1W,1M)		96dB SPL	98dB SPL	96dB SPL	95dB SPL
COMPONENT	LF	10" cone	18" cone x 2	18" cone	15" cone
	HF	Horn + 1" voice coil driver	-		
CONNECTORS			1/4" phone jack x 2, SPEAKON Neutrik NL4MP x 2		
DIMENSIONS (W X H X D)		560 x 353 x 277mm	1221 x 578 x 659mm	610 x 728 x 641mm	506 x 611 x 532mm
WEIGHT		13.4kg	65.4kg	39.0kg	28.2kg

BR SERIES



COST-EFFECTIVE DESCENDENTS OF THE LEGENDARY CONCERT CLUB SERIES SPEAKERS FOR A WIDE RANGE OF APPLICATIONS

- Proven audio quality and reliability of Yamaha's acclaimed Concert Club series.
- A variety of cabinets for applications ranging from solo street entertainers to bands in concert halls
- An optimally-tuned bass-reflex system delivers excellent low-frequency response while a horn with titanium-dome compression driver provides broad 90°/40° high-frequency coverage.
- Dual phone jacks for input and parallel connection
- Durable carpeted enclosure with steel corner protectors and heavy duty metal handles
- All models are equipped with a pole socket for use with speaker stands.



BR15



BR12



BR10



BR15M



BR12M



		BR15, BR15M	BR12, BR12M	BR10
ТҮРЕ		2-way bass reflex		
FREQUENCY RANGE (-10DB)		60Hz-20kHz	65Hz-20kHz	65Hz-20kHz
DISPERSION (HORIZONTAL X VERTICAL)		BR10, BR12, BR15 : 90° x 40° / BF	R12M, BR15M : 40° x 90°	
NOMINAL IMPEDANCE		28		
POWER RATING	NOISE	200W	150W	125W
	PGM	400W	300W	250W
	MAX	800W	600W	500W
SENSITIVITY (1W,1M)		98dB SPL	97dB SPL	96dB SPL
COMPONENT	LF	15" cone	12" cone	10" cone
	HF	CD horn + 1" voice coil compressi- on driver, Titanium		
INPUT TERMINAL		Phone x 2		
DIMENSIONS		BR15: 485 x 656 x 365mm	BR12: 403 x 569 x 335mm	394 x 537 x 326mm
(W X H X D)		BR15M: 652 x 487 x 365mm	BR12M: 569 x 407 x 334mm	
WEIGHT		BR15: 21.3kg	BR12: 16kg	14.4kg
		BR15M: 20.9kg	BR12M: 15.6kg	

| R SERIES



Delivering Yamaha Quality and Outstanding Cost Performance.

Yamaha's Concert Club Series loudspeakers have long been a popular choice among audio professionals and musicians for offering quality components, excellent performance, and durability at an affordable price. In that same tradition, the R-Series offers powerful sound, practical function, features, and audio quality at a price that is even harder to beat.



		K215	KIIS	KIIZ
SPEAKER TYPE		2-way Bass-reflex		
FREQUENCY RANGE (-10DB)		40Hz - 20kHz	50Hz - 20kHz	55Hz - 20kHz
NOMINAL COVERAGE		90H x 40V		
NOMINAL IMPEDANCE		4Ω	8Ω	8Ω
POWER RATING	PGM	1000W	500W	400W
	MAX	2000W	1000W	800W
SENSITIVITY (1W, 1M)		98 dB SPL	98 dB SPL	97 dB SPL
COMPONENT	LF	15" cone X 2	15" cone	12" cone
	HF	1.75", Ti vc, CD-Horn	1.75", Ti vc, CD-Horn	1.75", Ti vc, CD-Horn
CONNECTORS		Speakon x 1, Phone x 2	Speakon x 1, Phone x 2	Speakon x 1, Phone x 2
RIGGING POINTS		n/a	M10 x 3	M10 x 3
POLE MOUNT SOCKET		n/a	35 mm	35 mm
DIMENSIONS (W X H X D)		520 x 1175 x 600 mm	520 x 765 x 470 mm	480 x 695 x 400 mm
WEIGHT		69.0 kg	35.0 kg	26.5 kg



Features like high-power woofers, titanium high frequency compression drivers, and constant directivity horns, deliver audio performance that is hard to obtain in this price range. Neutrik's Speakon connectors, durable MDF enclosures, big heavy-duty steel handles, durable finishes, and heavy-duty grills offer convenience and protection that professionals look for in a sound system. Enclosures are designed with rounded fronts that look better when multiple units are arranged in an array and the series offers six different models, designed to meet the needs of a variety of budgets and applications.

*Some models may not be available in all areas.



		R15M	R12M	R118W
SPEAKER TYPE				Bass-reflex
FREQUENCY RANGE (-10DB)		50Hz - 20kHz	55Hz - 20kHz	35Hz - 3kHz
NOMINAL COVERAGE		90H x 40V		-
NOMINAL IMPEDANCE		8Ω	8Ω	28
POWER RATING	PGM	500W	400W	500W
	MAX	800W	800W	1000W
SENSITIVITY (1W, 1M)		98 dB SPL	97 dB SPL	97 dB SPL
COMPONENT	LF	15" cone	12" cone	18" cone
	HF	1.75", Ti vc, CD-Horn	1.75", Ti vc, CD-Horn	-
CONNECTORS		Speakon x 1, Phone x 2	Speakon x 1, Phone x 2	Speakon x 1, Phone x 2
RIGGING POINTS		n/a	n/a	n/a
POLE MOUNT SOCKET		n/a	n/a	n/a
DIMENSIONS (W X H X D)		745 x 490 x 400 mm	675 x 450 x 380 mm	562 x 811 x 639 mm
WEIGHT		30.5 kg	24.0 kg	49.5 kg

A SERIES



POWERFUL SOUND OUTPUT WITH OUTSTANDING CLARITY

From solo entertainers to touring bands, jazz clubs to houses of worship, for any situation that needs a quality sound system, Yamaha's A Series speakers are worth a good look and listen. In addition to sounding superb and being capable of handling serious power, these speakers are light, compact and easily manageable when the system needs to be moved or reconfigured. They feature durable metal handles that will withstand nightly transportation, and are pole-mountable for optimum positioning in any room. Robust carpet covering and metal grilles are pluses, too, minimizing damage while looking downright handsome. But, of course, practicality isn't the only issue.



		A15	A12	A10
SPEAKER TYPE		2-way Bass-reflex		
FREQUENCY RANGE (-10DB)		65Hz - 20kHz	65Hz - 20kHz	65Hz - 20kHz
NOMINAL COVERAGE		90H x 40V		
NOMINAL IMPEDANCE		8Ω	8Ω	8Ω
POWER RATING	NOISE	200W	150W	125W
	PGM	400W	300W	500W
	MAX	800W	600W	1000W
SENSITIVITY (1W, 1M)		98dB SPL	97dB SPL	98dB SPL
COMPONENT	LF	15" cone	12" cone	10" cone
	HF	1" vc, Horn-TW	1" vc, Horn-TW	1" vc, Horn-TW
CONNECTORS		Speakon x 1, Phone x 1	Speakon x 1, Phone x 1	Speakon x 1, Phone x 1
POLE MOUNT SOCKET		35 mm	35 mm	35 mm
DIMENSIONS (W X H X D)		470 x 665 x 375 mm	405 x 575 x 323 mm	385 x 535 x 307 mm
WEIGHT		21.3Kg	16Kg	14.4Kg





You want great sound, too. The A Series speakers feature optimally matched high-power woofers, compression drivers, and constant-directivity horns that deliver your sound to every corner of the room with every subtle nuance intact. There's also a range of five models to choose from, so you can create the system that is perfect for your touring or installation needs. One possible system is shown in the example below: a pair of A15 and A15W's for the house and a pair of A12M's on the floor or wherever you need them to hear precisely what you're playing or singing.

*Some models may not be available in all areas.



A12M



A15W

		A12M	A15W
SPEAKER TYPE			Bass-reflex
FREQUENCY RANGE (-10DB)		65Hz - 20kHz	50Hz - 200kHz
NOMINAL COVERAGE		40H x 90V	
NOMINAL IMPEDANCE		8Ω	8Ω
POWER RATING	NOISE	150W	250W
	PGM	300W	500W
	MAX	600W	1000W
SENSITIVITY (1W, 1M)		97dB SPL	97dB SPL
COMPONENT	LF	12" cone	15" cone
	HF	1" vc, Horn-TW	
CONNECTORS		Speakon x 1, Phone x 1	Speakon x 2, Phone x 2
POLE MOUNT SOCKET		35 mm	35 mm
DIMENSIONS (W X H X D)		575 x 405 x 323 mm	485 x 622 x 485 mm
WEIGHT		15.6Kg	20.9Kg



DZR and **DXS XLF SERIES** is positioned at the highest level of Yamaha professional live SR powered loudspeaker and Yamahas' 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' sub woofers 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.



- 96kHz high performance DSP 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
- LCD display for easy processor programming and editing
- Monitoring and editing on TF, QL, CL consoles and Pro Visionaire Touch iPad app
- High power 2000W Class-D Amplifiers
- HF : 2" voice coil and rotatable 1" throat Compression driver, Titanium diaphragm
- LF: 3" voice coil and neodymium magnet for DZR, 4" voice coil and ferrite magnet for DXS XLF
- Durable plywood cabinet with Polyurea coating
- Wide Dispersion CD Waveguide Horn
- Mirror set up for floor monitoring (DZR12 & DZR15)
- Dual angle pole socket
- Vertical and horizontal U-bracket
- M8, M10 and M8 rigging points





DZR315(-D)

- 15"/8"/2" FULL RANGE
- 2000W / 143dB PEAK SPL
- D version: Dante audio networking



DZR15(-D)

- 15"/2" FULL RANGE
- 2000W / 139dB PEAK SPL
- D version: Dante audio
- networking



DZR12(-D)

- 12"/2" FULL RANGE
- 2000W / 139dB PEAK SPL
- D version: Dante audio networking



DZR10(-D)

- 10"/2" FULL RANGE
- 2000W / 137dB PEAK SPL
- D version: Dante audio networking



DXS18XLF(-D)

- 18" SUB WOOFER
- 1600W / 136dB PEAK SPL
- D version: Dante audio networking



DXS15XLF(-D)

- 15" SUB WOOFER
- 1600W / 136dB PEAK SPL
- D version: Dante audio networking

DZR WEDGE PLACEMENT

REAR PANELS







⊕ YAM/

DZR-D models



DXS-D models

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GENERAL SPECIFICATIONS

		DZR315(-D)	DZR15(-D)	DZR12(-D)	DZR10(-D)	DXS18XLF (-D)	DXS15XLF (-D)
SYSTEM TYPE		3-way, Bi-ampled Powered Speaker, Bass-reflex	2-way, Bi-amped Po	wered Speaker, Bass-r	reflex	Powered Subwoofer	, bass-reflex
FREQUENCY RANG	GE (-10DB)	31Hz - 20kHz	34Hz - 20kHz	39Hz - 20kHz	44Hz - 20kHz	30Hz - 150Hz	33Hz - 150Hz
COVERAGE ANGL	E	H75 x V50	H90 x V50 (Rotatable)	H90 x V60 (Rotatable)	H90 x V60 (Rotatable)	-	-
CROSSOVER FREQUENCY, TYPE		700Hz (FIR-X) 2.5kHz (Passive)	1.7kHz (FIR-X)	1.8kHz (FIR-X)	1.8kHz (FIR-X)	-	-
MAXIMUM SPL *1		143dB SPL	139dB SPL	139dB SPL	137dB SPL	136dB SPL	136dB SPL
TRANSDUCERS	LF	15" Cone, 3" Voice Coil, Neodymium magnet	15" Cone, 3" Voice Coil, Neodymium magnet	12" Cone, 3" Voice Coil, Neodymium magnet	10" Cone, 3" Voice Coil, Neodymium magnet	18" Cone, 4" Voice Coil, Ferrite magnet	15" Cone, 4" Voice Coil, Ferrite magnet
	MF	8" Cone, 1.5" Voice Coil, Ferrite magnet	-	-	-	-	-
	HF	2" Voice Coil, 1" Th magnet	roat Compression Driv	ver, Titanium diaphrag	m, Neodymium	-	-
ENCLOSURE MATE	rial, finish,	Plywood, Durable Po	olyurea Painting, Blacl	¢			
FLOOR MONITOR	ANGLE	-	50° Symmetrical	50° Symmetrical	50°	-	-
DIMENSIONS (WXHXD, WITH RU	BBER FEET)	550x897x520mm	450x761x460mm	410x646x394mm	315x537x345mm	550x657x720mm	450x587x600mm
WEIGHT		41.6 kg	25.2 kg	21.4 kg	1 <i>7</i> .9 kg	48.9 kg	40.0 kg
HANDLES		Aluminium die-cast,	Side x2		Aluminium die-cast, Top x1, Side x1	Aluminium die-cast,	Side x2
POLE SOCKET		-	Ф35 mm x2 (0° ог	-7°)		Φ35 mm (depth 80 M20 Threaded dep	••
RIGGING POINTS		M10 x16	M10 x12		M10 x8, M8 x2	-	
AMPLIFIER TYPE		Class-D				Class-D	
POWER RATING	DYNAMIC ^{*2}	2000W (LF:1000W	/, MF/HF: 1000W)			1600W	
CONTINUOUS		1300W (LF: 920W,	, MF/HF: 380W)			1230W	
COOLING		Fan cooling, Variabl	e speeds.				
DSP, AD/DA		96kHz processing w	vith 96kHz AD/DA an	d FIR filter			
CONNECTORS	ANALOG IN	Combo x2, Line leve	el (Maximum +24dBu)	, Input impedance 20	kΩ		
	ANALOG OUT	XLR3-32 x2, CH1: T	HRU (fix), CH2: THRU	J or DSP OUT		XLR3-32 x2, CH1/2: THRU or D	SP OUT
	DANTE (-D MODEL ONLY)	etherCON CAT5e x	2 (Daisy Chain), 2 IN	I / 2 OUT (Fs: 44.1k,4	48k 88.2k,96k) and R	Remote Control, 1000	BASE-T
	USB	USB2.0 Host 5V 50	OmA, for USB memory	y DATA storage/load			
	AC IN	IEC AC inlet x1 (V-L	ock)				
IDLE POWER CONSUMPTION		45W				40W	
1/8 POWER CONSUMPTION		150W				180W	
OPTIONS	U-BRACKET	-	UB-DZR15H/V	UB-DZR12H/V	UB-DZR10H/V	-	-
	COVER	SPCVR-DZR315	SPCVR-DZR15	SPCVR-DZR12	SPCVR-DZR10	SPCVR-DXS18X	SPCVR-DXS15X
	CASTER	-	-	-	-	SPW-1	-

*1: Measured peak SPL with pink noise @1m.
 *2: Total peak power of individual outputs (AC 120V, 25°C. This value was measured at minimum load impedance, with protection released.



OPTIONAL MOUNTING U-BRACKETS FOR DZR15/12/10 (D)



UB-DZR15H



UB-DZR15V



UB-DZR12H



UB-DZR12V



UB-DZR10H



UB-DZR10V

OPTIONAL COVERS



SPVCR-DZR315



SPVCR-DZR15



SPVCR-DZR12



SPVCR-DZR10



SPVCR-DXS18X



SPVCR-DXS15X



SPW-1

OPTIONAL CASTERS FOR • DXS15XLF(-D) • DXS18XLF(-D)

DSR SERIES



POWER PERFECTLY PROCESSED

DSR SERIES POWERED LOUDSPEAKERS take portable loudspeakers to the extreme limits of their potential. Output levels are pushed to the highest sound pressure levels possible, yet in cabinets that are lightweight and compact. Sound resolution remains superb, no matter how hard or for how long the speakers are driven. Designed by applying our leading-edge digital and acoustic technologies developed over decades, the **DSR SERIES** provides a listening experience that redefines high definition sound reinforcement.





HEAVY-DUTY POWDER-COATED STEEL GRILLES



LINE-X® COATING (DAMAGE RESISTANT)



LOCKING IEC POWER CONNECTOR



M10 RIGGING POINTS FOR SUSPENDED IN-STALLATION (DSR115/ DSR112).



BACKSIDE (DSR215/ DSR115/DSR112)



DSR215

- LF: 2x15" cone
- Voice Coil: 2.5"
- Magnet: Ferrite
- HF: Diaphragm 2"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power: Dynamic: 1500W (LF: 1020W HF: 480W) Continuous: 1300W (LF: 850W HF: 450W)
- Max. SPL: 138dB SPL
- Dimensions: W 467 mm, H 1158 mm, D 520 mm
- Net weight: 49.8 kg





DSR115

- LF: 15" cone
- Voice Coil: 3"
- Magnet: Neodymium
- HF: Diaphragm 2"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power:
 - Dynamic: 1500W (LF: 1020W HF: 480W) Continuous: 1300W (LF: 850W HF: 450W)
- Max. SPL: 136dB SPL
- Dimensions: W 442 mm, H 755 mm, D 423 mm
- Net weight: 28 kg





DSR112

- LF: 12" cone
- Voice Coil: 3"
- Magnet: Neodymium
- HF: Diaphragm 2"
- Type: 1" throat compression driver
- Magnet: Neodymium
- Output power: Dynamic: 1500W (LF: 1020W HF: 480W) Continuous: 1300W (LF: 850W HF: 450W)
- Max. SPL : 134dB SPL
- Dimensions: W 370 mm, H 638 mm, D 368 mm
- Net weight: 21.2 kg

DSR118W

- LF: 18" cone
- Voice Coil: 3"
- Output power: Dynamic: 1020W Continuous: 800W
- Max. SPL: 132dB SPL
- Dimensions: W 520 mm, H 638 mm, D 584 mm
- Material: Wood (Paint, Black)
- Pole socket: 35mm (Top x1)
- Net weight: 42 kg





BACKSIDE (DSR118W)



	DSR215	DSR115	DSR112	DSR118W
TRANSDUCER: LF	2x 15"cone / 2,5" Voice Coil	15" cone / 3" Voice Coil	12″ cone / 3" Voice Coil	1x 18" cone / 2,5" Voice Coil
TRANSDUCER: HF	2" Diaphragm	2" Diaphragm	2" Diaphragm	-
POWER RATING	1500W (LF:1020W/HF: 480W)	1500W (LF:1020W/HF: 480W)	1500W (LF:1020W/HF: 480W)	1020W
MAXIMUM SPL	138 dB SPL	136 dB SPL	134 dB SPL	132 dB SPL
FREQUENCY RANGE (-10dB)	45Hz - 20kHz	45Hz - 20kHz	55Hz - 20kHz	40Hz - 130Hz
DSP	D-Contour	D-Contour	D-Contour	-
INPUTS / OUTPUTS	In: XLR, Phone / Out: XLR	In: XLR, Phone / Out: XLR	In: XLR, Phone / Out: XLR	In: 2xXLR / Out: 2xXLR
RIGGIN POINTS	-	3 (fits for M10x18mm eybots)	3 (fits for M10x18mm eybots)	-
POLE SOCKET	-	35 mm (Bottom)	35 mm (Bottom)	35mm (Top)
COOLING	Natural convection	Natural convection	Natural convection	Natural convection
DIMENSIONS (WxHxD)	467 x 1158 x 520 mm	442 x 755 x 423 mm	370 x 638 x 368 mm	520 x 638 x 584mm
MATERIAL/FINISH	Wood, Line-X	Wood, Line-X	Wood, Line-X	Wood, Line-X
WEIGHT	49.8 kg	28 kg	21.2 kg	42 kg

DXR SERIES



POWER TO THE PEOPLE!

DXR 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.

YAMAHA + NEXO

DXR Series loudspeakers developed in cooperation with NEXO.

- ***** EXTREMELY LOUD
- * INTELLIGENT 3-CHANNEL-MIXER
- * COMPACT SPEAKERS WITH 48-BIT DSP AND FIR-X TUNING







SYMMETRICAL ENCLOSURE DESIGN FOR MIRROR-MODE FLOOR MONITORING (DXR12/ DXR15)



HIGH-EFFICIENCY 1100W CLASS-D AMPLIFIERS



DURABLE, COMPACT ABS ENCLOSURES



BACKSIDE (DXR15/DXR12/DXR10/DXR8)





DXR15

• LF: 15" cone

- Voice Coil: 2.5"
- Magnet: Ferrite
- HF: Diaphragm 1.4"
- Type: 1" throat compression driver
- Magnet: Ferrite
- Output power:
- Dynamic: 1100W (LF: 950W HF: 150W) Continuous: 700W (LF: 600W HF: 100W)
- Max SPL: 133dB SPL
- Dimensions: W 445 mm, H 700 mm, D 380 mm
- Net weight: 22.5 kg

DXR12

- LF: 12" cone
- Voice Coil: 2.5"
- Magnet: Ferrite
- HF: Diaphragm 1.4"
- Type: 1" throat compression driver
- Magnet: FerriteOutput power:
- Dynamic: 1100W (LF: 950W HF: 150W) Continuous: 700W (LF: 600W HF: 100W)
- Max SPL: 132dB SPL
- Dimensions: W 362 mm, H 601 mm, D 350 mm
- Net weight: 19.3 kg







DXR10

- LF: 10" cone
- Voice Coil: 2"
- Magnet: Ferrite
- HF: Diaphragm 1.4"
- Type: 1" throat compression driver
- Magnet: Ferrite
- Output power:
- Dynamic: 1,100W (LF: 950W HF: 150W) Continuous: 700W (LF: 600W HF: 100W)
- Max SPL: 131dB SPL
- Dimensions: W 305 mm, H 502 mm, D 310 mm
- Net weight: 14.6 kg

DXR8

- LF: 8" cone
- Voice Coil: 2"
- Magnet: Ferrite
- HF: Diaphragm 1.4"
- Type: 1" throat compression driver
- Magnet: Ferrite
- Output power:
- Dynamic: 1,100W (LF: 950W HF: 150W) Continuous: 700W (LF: 600W HF: 100W)
- Max SPL: 129dB SPL
- Dimensions: W 280 mm, H 458 mm, D 280 mm
- Net weight: 13.5 kg





DXS SERIES



POWER IN VERSATILITY

DXS SERIES is a new line of compact, high output **POWERED SUBWOOFERS** that match perfectly with **DSR**, **DXR** and **DBR** fullrange powered loudspeakers.

- * THE DXS'S HIGH PERFORMANCE CLASS-D AMPLIFIER IS CAPABLE OF PRODUCING HIGH POWER OUTPUTS, REALIZING A HIGH SPL DELIVERED WITH EXCEPTIONAL CLARITY AND ACCURACY.
- * D-XSUB BASS PROCESSING IS A DSP TECHNOLOGY THAT GIVES USERS ADDITIONAL DYNAMIC CONTROL OF THE FREQUENCY RANGE TO MEET THE DEMANDS OF A VARIETY OF APPLICATIONS OR MUSICAL STYLES.
- * THE CARDIOID MODE SETTING (DXS18 ONLY) ADDS ADDITIONAL CONTROL OF LOW FREQUENCIES FOR SUB-WOOFER ARRAYS OF TWO OR MORE DXS18 SPEAKERS, EFFECTIVELY REDUCING THE SPL OF BASS DIRECTED TOWARDS THE STAGE WHILE INCREASING THE BASS LEVELS DIRECTED TOWARDS THE AUDIENCE.



DXS18

- LF: 18" cone
- Voice Coil: 4"
- Magnet: Ferrite
- Max SPL: 136dB
- Output power: Dynamic: 1020W, Continuous: 800W
- Frequency range (-10dB): 32Hz 120Hz
- Dimensions: W 563 mm, H 683 mm, D 721 mm
- Material: Plywood (LINE-X®, black)
- Pole socket: 35mm (depth 80mm) & M20 (depth 25mm)
- Net weight: 49.7 kg

SPW-1

OPTIONAL WHEEL KIT

For more fast and convenient setup of your DXS subwoofers, optional casters are available, featuring radial ball bearings that ensure quick, quiet transport of your gear (only for DXS18).





DXS15MKII

- LF: 15" cone
- Voice Coil: 2.5"
- Magnet: Ferrite
- Max SPL: 135dBOutput power:
 - Dynamic: 1020W, Continuous: 800W
- Frequency Range: (-10dB): 40Hz 150Hz
- Cardioid Mode
- Dimensions: W 480 mm, H 611 mm, D 614 mm
- Material: Wood (Paint, Black)
- Pole socket: 35mm (Top x1)
- Net weight: 36.0 kg
- Optional Speaker Cover (SPCVR DXS152)
- Optional Wheel Kit (SPW-1)

DXS12MKII

- LF: 12" cone
- Voice Coil: 2.5"
- Magnet: Ferrite
- Max SPL: 134dB
- Output power:
- Dynamic: 1020W, Continuous: 800W • Frequency Range: (-10dB): 42Hz - 150Hz
- Cardioid Mode
- Dimensions: W 400 mm, H 567 mm, D 570 mm
- Material: Wood (Paint, Black)
- Pole socket: 35mm (Top x1)
- Net weight: 30.0 kg
- Optional Speaker Cover (SPCVR DXS122)
- Optional Wheel Kit (SPW-1)







U-BRACKETS FOR DXR SERIES FOR FLYING APPLICATION

The durable, portable design of its enclosure makes the **DXR SERIES** perfectly suited for use in a variety of environments. All DXRs come equipped with rigging points, allowing them to be flown from trussing with standard eyebolts. (DXR8/DXR10: M8 x 15 mm and DRX12/DXR15: M10 x 18 mm). When more versatility is required, optional BG-VC1 compliant U-brackets allow simple and easy rigging in both horizontal and vertical configurations.





U-BRACKET FOR

- DXR8 UBDXR8 (piece)
- DXR10 UBDXR10 (piece)
- DXR12 UBDXR12 (piece)
- DXR15 UBDXR15 (piece)



	DXR15	DXR12	DXR10	DXR8
TRANSDUCER: LF	15" cone/2" v.coil	12"cone/2" v.coil	10" cone/2" v.coil	8" cone/2" v.coil
TRANSDUCER: HF	1,4" Diaphragm	1,4" Diaphragm	1,4" Diaphragm	1,4" Diaphragm
POWER RATING	1100W (LF: 950W/HF: 150W)	1100W (LF: 950W/HF: 150W)	1100W (LF: 950W/HF: 150W)	1100W (LF: 950W/HF: 150W)
MAXIMUM SPL	132 dB SPL	132 dB SPL	131 dB SPL	129 dB SPL
FREQUENCY RANGE (-10dB)	49Hz - 20kHz	52Hz - 20kHz	56Hz - 20kHz	57Hz - 20kHz
DSP	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)
INPUTS/OUTPUTS	In: XLR, Phone, RCA / Out: XLR	In: XLR, Phone, RCA / Out: XLR	In: XLR, Phone, RCA / Out: XLR	ln: XLR, Phone, RCA / Out: XLR
RIGGING POINTS	3 (fits for M10 x 18mm eybots)	3 (fits for M10 x 18mm eybots)	3 (fits for M8 x 15mm eybots)	3 (fits for M8 x 15mm eybots)
POLE SOCKET	35mm (Bottom)	35mm (Bottom)	35mm (Bottom)	35mm (Bottom)
COOLING	Fan cooling	Fan cooling	Fan cooling	Fan cooling
DIMENSIONS (W x H x D)	445x700x380 mm	362x601x350 mm	305x502x310 mm	280x458x280 mm
MATERIAL/FINISH	ABS, Matte black	ABS, Matte black	ABS, Matte black	ABS, Matte black
WEIGHT	22.5 kg	19.3 kg	14.6 kg	13.5 kg

	DXS18	DX\$15MKII	DX\$12MKII
TRANSDUCER: LF	18"cone / 4" Voice Coil	15"cone / 2,5" Voice Coil	12"cone / 2,5" Voice Coil
TRANSDUCER: HF	-	-	-
POWER RATING	1020W	1020W	1020W
MAXIMUM SPL	136 dB SPL	135 dB SPL	134 dB SPL
FREQUENCY RANGE (-10dB)	32Hz - 120Hz	40Hz - 150Hz	42Hz - 150Hz
DSP	D-X SUB: BOOST, XTD LF, NORMAL, CARDIOID mode	D-XSUB: BOOST, XTENDED-LF, OFF	D-XSUB: BOOST, XTENDED-LF, OFF
INPUTS/OUTPUTS	2x XLR IN/ 2x XLR Out	2x XLR IN/ 2x XLR Out	2x XLR IN/ 2x XLR Out
RIGGING POINTS	-	-	-
POLE SOCKET	35mm (depth 80mm) & M20 (threaded depth 25mm)	35mm (Top) / M20 (Top)	35mm (Top) / M20 (Top)
COOLING	Natural convection	Fan cooling	Fan cooling
DIMENSIONS (W x H x D)	563x683x721 mm	480x611x614	400x567x570
MATERIAL/FINISH	Plywood, LineX coated, Black	Plywood, LineX coated, Black	Plywood, LineX coated, Black
WEIGHT	49.7 kg	36 kg	30 kg



SPEAKER COVERS FOR DXR, DXS, DBR AND CBR SERIES

Introducing Yamaha's newly designed functional **SPEAKER COVERS** that protect your speakers from unfavorable weather conditions during outdoor performances, dusty and dirty warehouse storage, or the rigors of equipment transport on the road.

- * GAPS FOR CARRYING HANDLES
- # Yamaha LOGO
- ***** MATERIAL: SYNTHETIC





SPCVR-1501 PADDED SHEATH FOR

- DXR15
- DBR15
- CBR15
- Colour: Black



PADDED SHEATH FOR

- DXR12
- DBR12
- CBR12
- Colour: Black



SPCVR-1001 PADDED SHEATH FOR

- DXR10
- DBR10
- CBR10
- Colour: Black



SPCVR-0801 PADDED SHEATH FOR • DXR8

• Colour: Black



SPCVR-18S01 PADDED SHEATH FOR • DXS18

- DXS18
- Colour: Black



SPCVR-DXS152 PADDED SHEATH FOR • DXS15MKII





SPCVR-DXS122 PADDED SHEATH FOR

- DXS12MKII
- Colour: Black

DBR SERIES



POWER TO PLAY

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

- * HIGH-DEFINITION SOUND
- ✤ INTELLIGENT INTEGRATED 2-CHANNEL MIXER
- * 48-BIT DSP AND FIR-X TUNING
- * LEIGHTWEIGHT POWERED SPEAKERS







DURABLE, COMPACT DESIGN



HIGH VERSATILITY AND FUNC-TIONALITY (2 CHANNEL MIXER WITH XLR, PHONE, RCA INPUTS)



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



EXTREMELY ACCURATE 90X60 CONSTANT-DIRECTIVITY HORN







DBR15

DBR12



DBR10

	DBR15	DBR12	DBR10
TRANSDUCER: LF	15″	12″	10″
TRANSDUCER: HF	1,4"	1,4"	1 "
POWER RATING	1000 W	1000 W	700 W
MAXIMUM SPL	132 dB SPL	131 dB SPL	129dB SPL
FREQUENCY RANGE (-10dB)	50 Hz - 20 kHz	52 Hz - 20 kHz	55 Hz - 20 kHz
DSP	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)	D-Contour (FOH/Monitor)
INPUTS	In: XLR, Phone, RCA Out: XLR	In: XLR, Phone, RCA Out: XLR	In: XLR, Phone, RCA Out: XLR
RIGGING POINTS	3x (M8 x 15 mm) (Bottom x2, Rear x1)	3x (M8 x 15 mm) (Bottom x2, Rear x1)	2x (M8 x 15 mm) (Bottom x 2)
BRACKETS (OPTIONAL)	Wall-Bracket: BWS251-300 / BWS251-400 Ceiling-Bracket: BCS251 Baton-Bracket BBS251	Wall-Bracket: BWS251-300 / BWS251-400 Ceiling-Bracket: BCS251 Baton-Bracket BBS251	Wall-Bracket: BWS251-300 / BWS251-400 Ceiling-Bracket: BCS251 Baton-Bracket BBS251
POLE SOCKET	1	1	1
COOLING	Fan cooling	Fan cooling	Fan cooling
DIMENSIONS	455 x 700 x 378 mm	376 x 601 x 348 mm	308 x 493 x 289 mm
HANDLES	2	2	1
MATERIAL/FINISH	Plastic / Black	Plastic / Black	Plastic / Black
WEIGHT	19.3 kg	15.8 kg	10.5 kg





DBR15

- LF: 15" cone
- Voice Coil: 2,5"
- Magnet: Ferrite
- HF: Diaphragm 1,4"
- Type: 1,4" throat compression driver
- Magnet: FerriteOutput power:
- Dynamic: 1000W (LF: 800W HF: 200W) Continuous: 465W (LF:400W HF: 65W)
- Max SPL: 132dB SPL
- Dimensions: 455 x 700 x 378 mm
- Net weight: 19.3 kg

DBR12

- LF: 12" cone
- Voice Coil: 2"
- Magnet: Ferrite
- HF: Diaphragm 1"
- Type: 1,4" throat compression driver
- Magnet: Ferrite
- Output power: Dynamic: 1000W (LF: 800W HF: 200W) Continuous: 465W (LF:400W HF: 65W)
- Max SPL: 131dB SPL
- Dimensions: 376 x 601 x 348 mm
- Net weight: 15.8 kg







DBR10

- LF: 10" cone
- Voice Coil: 2"
- Magnet: Ferrite
- HF: Diaphragm 1"
- Type: 1" throat compression driver
- Magnet: Ferrite
- Output power: Dynamic: 700W (LF: 500W HF: 200W) Continuous: 325W (LF: 260W HF: 65W)
- Max SPL: 129dB SPL
- Dimensions: 308 x 493 x 289 mm
- Net weight: 10.5 kg



HS SERIES



POWERED NEAR-FIELD MONITORS FOR THE HOME OR SMALL STUDIO

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.

- * REFERENCE MONITORS FEATURING THE LEGENDARY Yamaha WHITE CONES
- * BI-AMPLIFICATION

SPEAKER SYSTEMS



	HS8/HS8W	HS7/HS7W	HS5/HS5W	HS8S
POWER	120 Watt (75 W LF/ 45 W HF)	95 Watt (60 W LF/35 W HF)	70 Watt (45 W LF/25 W HF)	150 Watt
TRANSDUCER: LF	8"	6,5″	5"	8"
TRANSDUCER: HF] "	1"	1"	-
FREQUENCY RANGE (-10dB)	38 Hz - 30 kHz	43 Hz - 30 kHz	54 Hz - 30 kHz	22 Hz - 160 Hz
CONNECTORS	Inputs: XLR/Jack	Inputs: XLR/Jack	Inputs: XLR/Jack	Input: 2 x XLR / 2 x Jack Output: 2 x XLR (L&R) / 1 x XLR (EXT SUB)
CONTROLS	Level Control / EQ: High Trim & Room Control	Level Control / EQ: High Trim & Room Control	Level Control / EQ: High Trim & Room Control	Level Control / PHASE / HIGH CUT control / LOW CUT control / LOW CUT switch
WEIGHT	10.2 kg	8.2 kg	5.3 kg	12.5 kg



OPTIMUM RESPONSE IN ANY ROOM

HS Series full-range models give you extra room-matching speaker placement versatility with **ROOM CONTROL** and **HIGH TRIM** response control switches that are specifically designed to compensate for common acoustic deficiences and monitoring needs. For inputs, HS full-range speakers can accommodate a wide range of balanced and unbalanced sources such as mixers, keyboards and audio interfaces with XLR and TRS phone jacks.

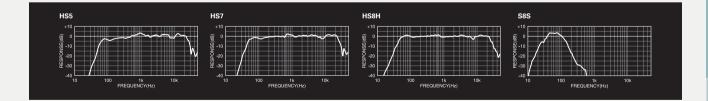


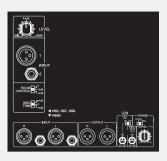
HS10W (FORMER MODEL)



CUTTING EDGE NOISE REDUCTION TECHNOLOGY

By adopting an advanced noise reduction technology that incorporates a thorough analysis of a visual representation of the sound, Yamaha's engineers are able to control and reduce the vortex. Through this in-depth analysis we have arrived at the ideal port design, resulting in a reduction of audible noise up to 6dB. The utilization of this state-ofthe-art technology allows HS Series studio monitors to meet the demands of more strict professional production environments.





HS SERIES - FRODUCTION FRODUCTION FRODUCTION



- * HS HIGH QUALITY STUDIO MONITORS
- * HS I SERIES SUPPORTS CEILING AND WALL INSTALLATIONS
- * SUPPORT FOR BBS, BCS AND BWS MOUNTING BRACKETS
- * SAME STUDIO QUALITY AS IN WORLD FAMOUS RECORDING STUDIOS
- * NEW HSI SERIES PROVIDE MOUNTING POINTS

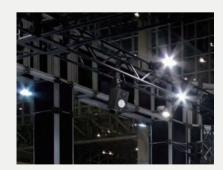














		HS5I/HS5IW	H\$7I/H\$7IW	HS8I/HS8IW
ТҮРЕ		Bi-amp 2-way powered speaker	Bi-amp 2-way powered speaker	Bi-amp 2-way powered speaker
OVERALL	-3dB	74 Hz - 24 kHz	55 Hz – 24 kHz	47 Hz - 24 kHz
FREQUENCY RESPONSE	-10dB	54 Hz - 30 kHz	43 Hz - 30 kHz	38 Hz – 30 kHz
CROSSOVER FREQUENCY		2 kHz	2 KHZ	2 kHz
SPEAKER		LF: 5" cone	LF: 6.5" cone	LF: 8″ cone
COMPONENTS		HF: 1″ dome	HF: 1″ dome	HF: 1″ dome
	Total	70 W (dynamic power)	95 W (DYNAMIC POWER)	120 W (dynamic power)
OUTPUT POWER	LF	45 W (4 ohms)	60 W (4 OHMS)	75 W (4 ohms)
	HF	25 W (8 ohms)	35 W (8 OHMS)	45 W (8 ohms)
INPUT SENSITIVITY / IMPEDANCE		-10 dBu/10k ohms	-10 dBu/10k ohms	-10 dBu/10k ohms
INPUT CONNECTORS (PARALLEL)		1: XLR-3-31 type (balanced) 2: PHONE (balanced)	1: XLR-3-31 type (balanced) 2: PHONE (balanced)	1: XLR-3-31 type (balanced) 2: PHONE (balanced)
CONTROLS		LEVEL control (+4 dB, center click) EQ: HIGH TRIM switch (+/- 2 dB at HF), ROOM CONTROL switch (0/-2/-4 dB under 500Hz)		
INDICATOR		Power ON (White LED)		
power consumption		45 W	55 W	60 W
ENCLOSURE		Bass-reflex type, Material: MDF	Bass-reflex type, Material: MDF	Bass-reflex type, Material: MDF
MOUNTING POINTS		Four surfaces x 2 x M5 (60 mm pitch)	Four surfaces x 2 x M8 (120 mm pitch)	Four surfaces x 2 x M8 (120 mm pitch)
DIMENSIONS (W X H X D)		170 mm x 285 mm x 222 mm (6-11/16″ x 11-1/4″ x 8-3/4″)	210 mm x 332 mm x 284 mm (8-1/4" x 13-1/16" x 11-3/16")	250 mm x 390 mm x 334 mm (9-13/16″ x 15-3/8″ x 13-1/8″)
WEIGHT		5.5 kg (12.1 lbs.)	8.7 kg (19.2 lbs.)	10.7 kg (23.6 lbs.)
		0.0 1.9 (12.1 120.)	51	

MSP SERIES



THE FIRST CHOICE – The **MSP-SERIES** is the choice of top recording and production engineers who demand unmatched accuracy and resolution that reveals critical sonic details.

- * REFERENCE-QUALITY MONITORING
- * ADVANCED BI-AMP DESIGN
- * MAGNETIC SHIELDING
- * ONE-PIECE MOLDED ENCLOSURE WITH ROUNDED BAFFLE





REAR PANEL

MSP5STUDIO

MSP5STUDIO
67 Watt (40 Watt LF + 27 Watt HF)
LF: 5" / HF: 1"
50 Hz - 40 kHz
Inputs: XLR/Phone
Level control, Low-Cut switch, High/Low Trim
W 179 x H 279 x D 208 mm
7.9 kg



REFERENCE MONITOR SYSTEM

- Precision, fatigue-free monitoring for music production systems
- High-performance 20-watt power amplifier built in
- Compact size with the high-quality sound you expect from the MSP-Series
- Input jacks and controls for extended connectivity and setup flexibility
- Optional brackets allow installation in a variety of applications



MSP3

	MSP3
POWER	20 Watt
TRANSDUCER	LF: 4" / HF: 1/8"
FREQUENCY RESPONSE	65Hz – 22kHz
CONNECTORS	RCA, XLR, Phone
CONTROLS	volume 1,2, low, high
DIMENSIONS (LXHXP)	144 x 236 x 167 mm
WEIGHT	4.4 kg

CISSCA



COMMERCIAL INSTALLATION SOLUTIONS SPEAKER CALCULATOR

(CISSCA) is a software application that quickly calculates the number of speakers required for optimum performance in a room specified by the user, plus the effective sound pressure level of the system. The user specifies the room size, type of speakers to be used, and speaker layout.

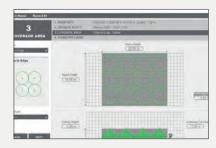
- * A FAST, EASY WAY TO ESTIMATE THE NUMBER OF SPEAKERS REQUIRED FOR ANY PROJECT.
- * EASY SETUP AND OPERATION.
- * REPORT OUTPUT FUNCTION PROVIDES CONVENIENT DOCUMENTATION FOR SYSTEM PROPOSALS.
- * SPEAKER LIBRARY INCLUDES VXC SERIES, NS-IC SERIES, S SERIES, VXS SERIES, NS-AW SERIES.



STEP 1: Enter the size of the room and the height of the listeners' ears.

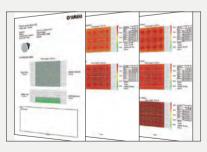


STEP 2: Select the target sound pressure level and the type of speakers to be used.



STEP 3: Select a speaker system layout. The program will provide an estimate of the number of speakers required.

STEP 4: Check the difference between the effective sound pressure level of the estimated system and the target sound pressure level entered in STEP 2. Click the "REPORT" button to output the results in report form.



REPORT: The report output function included with this application (pdf format) is a convenient way to generate support documentation for system proposals.

CISSCA V2.0 supports VXC- and VXS Series. Where more detailed information is required use the Yamaha Y-S³ Sound System Simulator application.

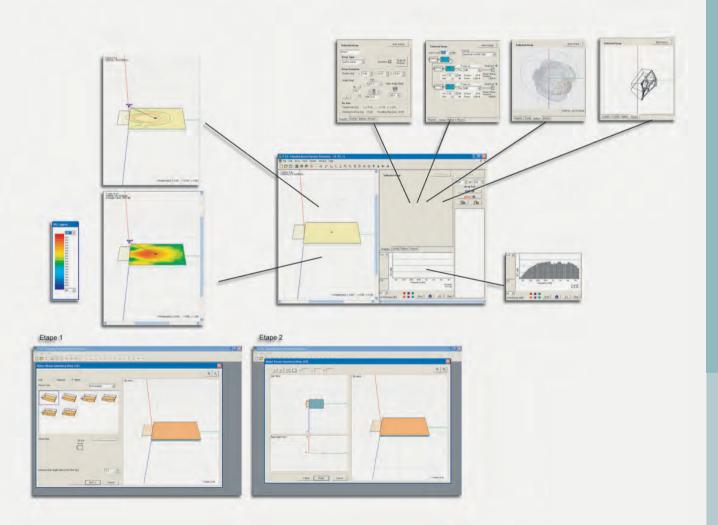






This acoustic simulation software combines the essential elements of Yamaha Professional Audio acoustic technology for all sound handled from input to output, including DSP, amps, speakers, and even the venue's design. The software provides superb accuracy and reliability thanks to the knowledge and experience of the Sound & IT Development Division, which is at the forefront of the world's acoustic technology with its Active Field Control and Acoustic Modeling, and has employed its advanced technology in the acoustic design of many concert halls.

- * AUTOMATIC LAYOUT & TUNING
- * DISTRIBUTED SPEAKERS
- * EXPORT DME SPEAKER PROCESSOR SETTINGS AND AMPLIFIER RECOMMENDATIONS
- * SPEAKER LIBRARY INCLUDES IF SERIES, S SERIES, VXS SERIES, VXC SERIES, CZR SERIES, CBR SERIES, DZR SERIES, DSR SERIES, DXR SERIES, DBR SERIES (UPGRADES FOR THE CZR SERIES AND DZR SERIES ARE SCHEDULED TO BE RELEASED AROUND AUGUST).



MICROPHONES & HEADPHONES

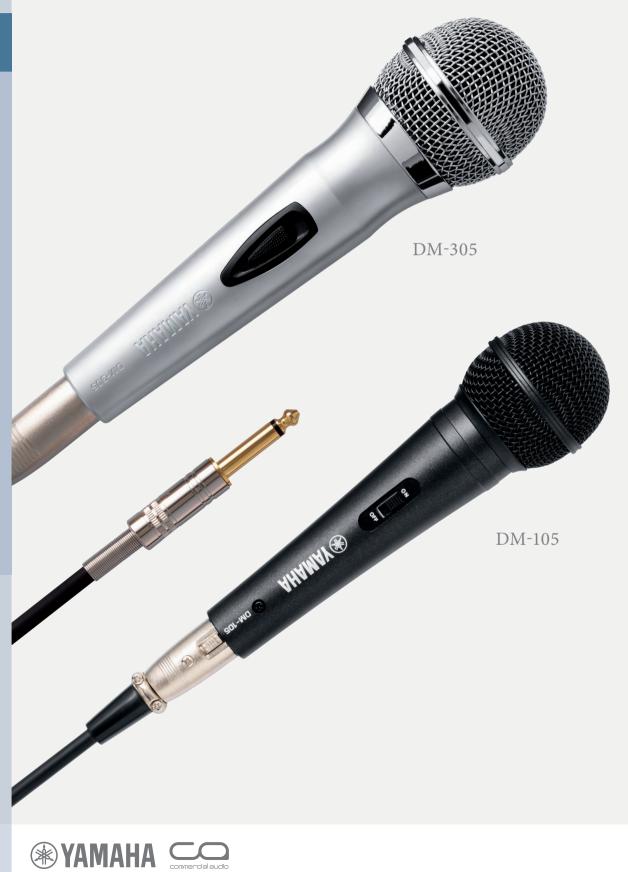




|DM-305, DM-105



HIGH QUALITY MICROPHONES TUNED FOR CLEAR LEAD AND BACKUP VOCALS.



SUPERIOR SOUND TECHNOLOGY

With its supercardioid polar pattern, the DM-305 is ideal for vocal performances. In addition, the magnet, voice coil and even the cable are extremely high quality to ensure high sound quality so voices sound clear and natural.

RICH, CLEAR VOCAL CHARACTERISTICS

Designed not only for karaoke but also for use by serious amateur vocalists, the DM-305 delivers sound that is rich, full, clear and free of extraneous noise. The specifications are good, but the natural musical quality, which Yamaha pays careful attention to, is truly excellent. With the DM-305, singing is always a real pleasure.

EXCLUSIVE BODY DESIGN

Yamaha developed a tapered body design that is easy and comfortable to hold, and gave the microphone an attractive silver finish.

A GREAT CHOICE FOR VARIOUS TYPES OF USE

- Karaoke with friends or family.
- For serious amateur vocalists , either on stage or in the rehearsal studio.
- For announcers (schools, public events, etc.).

GENERAL SPECIFICATIONS

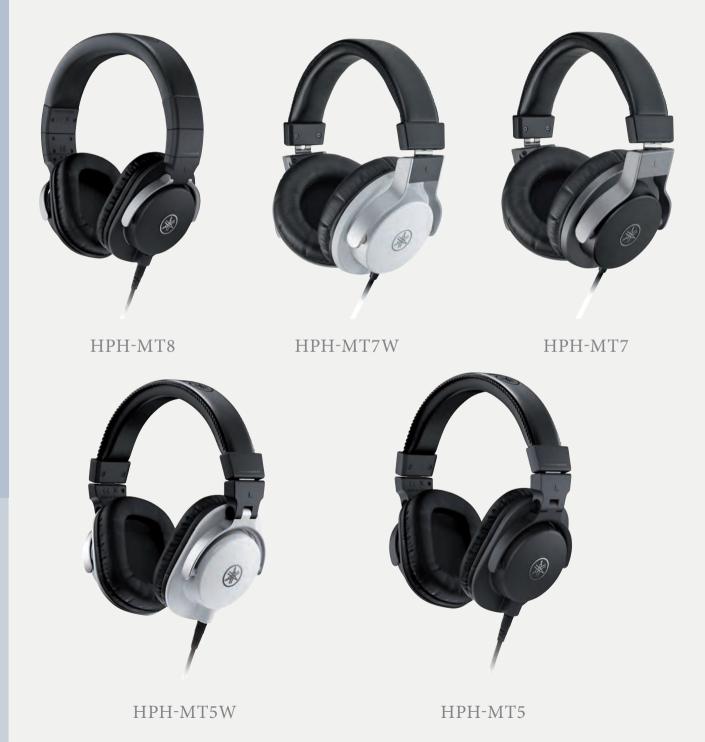
	DM-305	DM-105
MICROPHONE UNIT	Dynamic	Dynamic
POLAR PATTERN	Super Cardioid	Unidirectional
FREQUENCY RESPONSE	40 Hz-18 kHz	40 Hz-15 kHz
SENSITIVITY (2.83 V/1 M)	-51 dB ±3dB (0 dB=1 V/Pa at 1 kHz)	-54dB ±3dB (0 dB=1V/Pa at 1 kHz)
OUTPUT IMPEDANCE	600 ohms ±30% (at 1 kHz)	500 ohms ±30% (at 1 kHz)
CONNECTOR	3 pin XLR-M type	3 pin XLR-M type
CABLE	ø6mm x 5m balanced cable with XLR-F type connector and 6.3mm plug	ø6mm x 5m balanced cable with XLR-F type connector and 6.3mm plug
DIMENSIONS (MICROPHONE ONLY)	54 mm x 178 mm	51 mm x 169 mm
WEIGHT (MICROPHONE ONLY)	325 g	220 g

HPH-MT SERIES



WHEN IT'S ABOUT PRECISION

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. From the NS-10M to the MSP and HS Series, 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. 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.







PROFESSIONAL MONITORING HEADPHONES

HIGH RESOLUTION SOUND - SUPERB ISOLATION. PREMIUM COMFORT - STURDY, RELIABLE CONSTRUCTION

Whether you're recording in a professional studio, putting the finishing touches on a live mix, or simply listening to your music collection at home, your headphones serve a singular purpose of delivering the best possible reproduction of the source audio. Every aspect of the MT series design, from component and material selection to connectivity and overall fit, pays strict attention to achieving the highest possible levels of fidelity and the comfort required to focus on your sound. With a lineup of three models—the MT8, MT7, and MT5-the series offers a variety of features suited to a range of monitoring environments, with one ultimate objective... accuracy.



ы	DL	-W.	ТО	
п	ΓП	-/*	10	

HPH-MT7W/HPH-MT7

HPH-MT5W/HPH-MT5

ТҮРЕ	Closed-back, Circumaural (Over Ear)	Closed-back, Circumaural (Over Ear)	Closed-back, Circumaural (Over Ear)
FREQUENCY RESPONSE	15 Hz - 28 kHz	15 Hz - 25 kHz	20 Hz - 20 kHz
SOUND PRESSURE LEVEL	102 dB/mW	99 dB/mW	100 dB/mW
IMPEDANCE (AT 1KHZ)	37 Ω	49 Ω	51 Ω
MAXIMUM INPUT POWER (AT 1KHZ)	1600 mW	1600 mW	1600 mW
DRIVER UNIT	45 mm, Dynamic, CCAW Voice Coil	40 mm, Dynamic, CCAW Voice Coil	40 mm, Dynamic, CCAW Voice Coil
CABLE	1.2 m (3.9 ft), coiled cable 3.0 m (9.8 ft), straight cable	3.0 m (9.8 ft), straight	3.0 m (9.8 ft), straight cable
CONNECTOR	3.5 mm (1/8") stereo with 6.3 mm (1/4") stereo adaptor	3.5 mm (1/8") stereo with 6.3 mm (1/4") stereo adaptor	3.5 mm (1/8") stereo with 6.3 mm (1/4") stereo adaptor
DIMENSIONS (WXHXD) WITHOUT CABLE&PLUG	161 x 214 x 89 mm	170 x 195 x 98 mm	165 x 203 x 88 mm
WEIGHT	350 g (0.8 lbs)	360 g (0.8 lbs)	245 g (0.5 lbs)
ACCESSORIES	1.2 m Coiled cable 3.0 m Straight cable Threaded 6.3 mm (1/4") gold-plated adaptor, Padded carrying bag	Threaded 6.3 mm (1/4") gold-plated adaptor, Padded carrying bag	3.0 m Straight cable Threaded 6.3 mm (1/4") gold-plated adaptor, Nylon carrying bag

NEXT POWER AMPLIFIERS

SAMAHA (Second

* YANAHA



XMV SERIES



YDIF





XMV4140	XMV4280	XMV4140-D	XMV4280-D
4 x 140W@8Ω	4 x 280W@8Ω	4 x 140W@8Ω Dante	4 x 280W@8Ω Dante
XMV8140	XMV8280	XMV8140-D	XMV8280-D

- * YDIF a format developed by Yamaha, supporting the transport of 16 audio channels, including synchronisation, thorugh a single CAT5E cable. YDIF allows the connection of MTX matrix processors, XMV power amplifiers and Ex i/o interface units with cable lengths of maximum 30 meters.
- * **DANTE –** A multi-channel digital media networking technology based on IT industry standards, with very low latency and highly accurate synchronization. Dante supports a channel capacity of more than 500 channels per link.



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 (70V/100V line) or low-impedance $(4\Omega/8\Omega)$ modes simultaneously.
- 70V or 100V 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.

GENERAL SPECIFICATIONS

Model			XMV8280	XMV8140	XMV8280-D	XMV8140-D	XMV4280	XMV4140	XMV4280-D	XMV4140-D	
Output Power	1 kHz	4Ω	280W x 8	140W x 8	280W x 8	140W x 8	280W x 4	140W x 4	280W x 4	140W x 4	
	THD+N=1%,	8Ω	280W x 8	140W x 8	280W x 8	140W x 8	280W x 4	140W x 4	280W x 4	140W x 4	
	20ms burst	4Ω/ Double Power Mode	560W x 4	280W x 4	560W x 4	280W x 4	560W x 2	280W x 2	560W x 2	280W x 2	
		8Ω/ Double Power Mode	560W x 4	280W x 4	560W x 4	280W x 4	560W x 2	280W x 2	560W x 2	280W x 2	
	High	100V line	250W x 8/40Ω	125W x 8/80Ω	250W x 8/40Ω	125W x 8/80Ω	250W x 4/40Ω	125W x 4/80Ω	250W x 4/40Ω	125W x 4/80Ω	
	impedance	70V line	250W x 8/20Ω	125W x 8/40Ω	250W x 8/20Ω	125W x 8/40Ω	250W x 4/20Ω	125W x 4/40Ω	250W x 4/20Ω	125W x 4/40Ω	
Voltage Gain	RL=8Ω		31.7dB	28.7dB	31.7dB	28.7dB	31.7dB	28.7dB	31.7dB	28.7dB	
	RL=8Ω / Dou	ble Power Mode	34.7dB	31.7dB	34.7dB	31.7dB	34.7dB	31.7dB	34.7dB	31.7dB	
	100V		38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	38.2dB	
	70V		35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	35.2dB	
Input Sensitivity	RL=8Ω			+4	dBu						
S/N Ratio	A-weighted			≥ 10	DOdB						
	1/8 power (4Ω pink noise)		450W	250W	450W	250W	250W	150W	250W	150W	
Power	Idle (4Ω)		73W	73W	73W	73W	37W	37W	37W	37W	
Consumption	nption Standby		23W	23W	23W	23W	18.5W	18.5W	18.5W	18.5W	
THD+N	1kHz, half pa	wer	≤ 0.2%								
Frequency Response	RL=8Ω, 100V Po=1W, 20H		OdB, ±1.0dB								
Crosstalk	1kHz, half po input 150Ω sl	wer, 8Ω, Att. max, nunt	≤ -60dB								
Maximum Input	Level		+24dBu								
Input Impe- dance			20kΩ (balanced), 10kΩ (unbalanced)								
Connectors	Analog Input			Euroblock x 4	(6P, balanced)			Euroblock x 2	6P, balanced)		
	Digital Input ,	/ Output	RJ45 x 2 (YD	DIF IN / OUT) RJ45 x 2 (Dante PRIMARY / SECONDARY)		RJ45 x 2 (YDIF IN / OUT)			RJ45 x 2 (Dante PRIMARY / SECONDARY)		
	Speaker Outp	ut		Barrier stri	p x 8 pairs			Barrier stri	ip x 4 pairs		
	Network		RJ45	5 x 1	Shared with	Dante ports	RJ45 x 1		Shared with	Dante ports	
	Remote, Fault	Output		Eurobloc	k (3P) x 1			Eurobloc	k (3P) x 1		
	AC IN			AC In	let x 1			AC In	let x 1		
Load Protection			POWER switch on,	/off: Output mute, D	C-fault: Power supp	ly shuts down, Clip I	imiting				
Amplifier Protect	lion		Thermal: Output mute (heatsink temp ≥90°C) (Restored automatically), Overcurrent: Output mute (Restored automatically), Low load impedance: Output mute (Restored automatically)								
Power Supply Pr	otection		Thermal: Amplifier	shuts down automa	tically (heatsink tem	p≥100°C), Integro	ited power: Gain redu	ction (Restored automa	tically)		
Cooling Fan			3-Speed fan x 2, f	ront-to-back airflow							
Power Requirem	ents		100V, 120V, 230V	V-240V; 50Hz/60H	z						
Dimensions (Wx	HxD)		4	80 x 88 x 422mm (18.9" x 3.5" x 16.6	")		480 x 88 x 422mm	18.9" x 3.5" x 16.6")		
Weight				10.1ka	(22.3lbs)			8.1ka (17.9lbs)		

XM SERIES







XM4180	XM4080
4 x 180W@8Ω	4 x 80W@8Ω

COMPACT, LIGHTWEIGHT 2U AMPS PROVIDE FOUR CHANNELS OF HIGH-POWER AMPLIFICATION.

- Ideal for theatre, hall, and conference room installations.
- Four independent channels of power amplification in convenient, manageable units (XM4180 = 180W per channel, XM4080 = 80W per channel).
- Stereo, parallel, or bridged operation switchable from the rear panel.
- Balanced XLR and Euroblock connectors for easy, secure input connection.
- Output connections via five-way binding posts.
- High-pass filter with a selectable 20 Hz or 55 Hz roll-off frequency.
- Precision attenuators and independent indicators for each channel allow accurate level setup and status monitoring.
- The XM4180 can also function as a distribution power amp to drive multiple high-impedance speakers via 70V line output.
- Rear-panel Monitor/Remote jack allows the amp to be monitored and controlled from an external device.



GENERAL SPECIFICATIONS

Model			XM4180	XM4080			
Output Power	1kHz, THD+N	4Ω	250W x 4	120W x 4			
Colpor rower	= 1%	-412 8Ω	210W x 4 90W x 4				
		8Ω bridge	500W x 2	240W x 2			
	20Hz ~ 20kHz,	4Ω	230W x 4	115W x 4			
	THD+N = 0.1%	8Ω	180W x 4	80W x 4			
		8Ω bridge	460W x 2	230W x 2			
	High impedance	70V Line	300W x 2/16Ω (Bridge)	-			
Voltage Gain	RL=8Ω		30dB	26dB			
Input Sensitivity	RL=8Ω		+4dBu				
S/N Ratio	20Hz~20kHz, D	IN AUDIO	103dB				
Power Con- sumption	1/8 power (4Ω p		600W	400W			
	Idle		40W	40W			
	Standby		5W	5W			
THD+N	20Hz~20kHz, 1 RL=4Ω	/2 power,	Less than 0.1%				
Frequency Response	RL=8Ω, Po=1W, 20Hz - 20kHz		+0dB, -0.5dB				
Crosstalk	1kHz, half power, 8Ω Att. max, input 600Ω shunt		Less than -60dB				
Damping Factor	RL=8Ω, 1kHz		More than 100				
Maximum Input	Level		+22dBu				
Input Impe- dance			20k Ω (balanced), 10k Ω (unbalanced)				
Controls	Front Panel		POWER switch x 1 (push on/push off), Attenuator x 4 (31position)				
	Rear panel		MODE switch x 2 (STEREO/BRIDGE/PARALLEL), HPF switch x 2 (20Hz/55Hz/OFF) (12dB/oct)				
Connectors	Input		XLR-3-31 type x 4, Euroblock connector x 4 pairs (balanced)				
	Output		5-way binding post x 4 pairs				
	Monitor/Remote		D-SUB 15P x 1				
	AC IN		AC inlet x 1				
Indicators			POWER/STAND-BY x 1 (Green/Orange), PROTECT/MUTE x 4 (Red), SIGNAL x 4 (Green), CLIP/LIMIT x 4 (Red)				
Load Protection			POWER switch on/off mute, DC-fault: output relay Off (Restored automatically) Clip Limiting: THD ≥ 0.5%				
Amplifier Protect	lion		Thermal: Output Mute (heatsink temp \geq 90 °C) (Restored automatically), VI limiter (RL \leq 2 Ω): Limits the output				
Power Supply Pr	otection		Thermal: Amplifier shuts down automatically (C temp ≥ 90°C)	Operation not restored automatically, heatsink			
Cooling Fan			Variable-speed fan x 1				
Power Requirem	ents		120V, 220V-240V; 50Hz/60Hz				
Dimensions (Wx	HxD)		480 x 88 x 412mm (18-7/8" x 3-7/16" x 16-	/4")			
Weight			10kg (22lbs)	9.8kg (21.6lbs)			
	ories		Power cable x 1, Security cover x 1, Euroblock				

XH200







XH200

XH200

2 x 200W@100V

COMPACT, LIGHTWEIGHT 200W + 200W DISTRIBUTION POWER AMP FOR INSTALLED SYSTEMS.

- XH200 featuring a 2-channel high-impedance power amplifier (200W/25 ohms @70V, 200W/50 ohms @100V).
- The high-efficiency switching power supply allows for a compact (2U size) and lightweight design (9.8kg).
- Highly precise dB display detented attenuators, dedicated to each channel, are located on the front panel. The models also feature a protection circuit that allows you to monitor its status with an indicator. Attention to detail for better practicality can be found wherever you look.
- Equipped with Euro-block inputs and barrier strip terminal outputs. Also equipped with monitor/remote terminals and a subsonic filter. The models have been designed with all sorts of usage in mind.





GENERAL SPECIFICATIONS

OUTPUT POWER	High Impedance	100V Line (RL=50Ω)	200W x 2
		70V Line (RL=25Ω)	200W x 2
VOLTAGE GAIN			38dB (100V)/35dB (70V)
INPUT SENSITIVITY	RL=8Ω		+4dBu
S/N RATIO	DIN AUDIO		103dB
POWER	1/8 power (70V, RL=25Ω/pin	k noise)	400W
CONSUMPTION	Idle		40W
	Standby		5W
THD+N	40Hz~20kHz, 1/2	2 power	Less than 0.1%
FREQUENCY RESPONSE	Po=1W, HPF=40H	z, 80Hz~20kHz	+0dB, -0.5dB
CROSSTALK	1kHz, half power, 600Ω shunt	Att. max, input	Less than -60dB
MAXIMUM INPU	Γ LEVEL		+22dBu
INPUT IMPE- DANCE			20kΩ (balanced), 10kΩ (unbalanced)
CONTROLS	Front Panel		POWER switch x 1 (push on/push off), Attenuator x 2 (31position)
	Rear panel		OUTPUT VOLTAGE switch x 1 (100V/70V), HPF switch x 1 (40Hz/80Hz, 12dB/oct)
CONNECTORS	Input		Euroblock connector x 2 pairs (balanced)
	Output		Barrier strip x 2 pairs
	Monitor/Remote		D-SUB 15P x 1
	AC IN		AC inlet x 1
INDICATORS			POWER/STAND-BY x 1 (Green/Orange), PROTECT/MUTE x 2 (Red), SIGNAL x 2 (Green), CLIP/ LIMIT x 2 (Red)
LOAD PROTECTIC	N		POWER switch on/off mute, DC-fault: Output relay Off (Restored automatically), Clip limiting: THD $\ge 0.5\%$
AMPLIFIER PROTE	CTION		Thermal: Output Mute (heatsink temp ≥ 90°C) (Restored automatically), VI limiter (RL ≤ 16Ω): Output limit
POWER SUPPLY P	ROTECTION		Thermal: Amplifier shuts down automatically (Operation not restored automatically, heatsink temp ≥ 90°C)
COOLING FAN			Variable-speed fan x 1
POWER REQUIRE	MENTS		120V, 220V-240V; 50Hz/60Hz
DIMENSIONS (W	(XHXD)		480 x 88 x 412mm (18-7/8" x 3-7/16" x 16-1/4")
WEIGHT			9.8kg (21.6lbs)
INCLUDED ACCES	SSORIES		Power cable x 1, Security cover x 1, Euroblock connector x 2 (3P), Owner's manual

* Half power = 1/2 power output level



MA MIXING AMPLIFIERS & PA AMPLIFIERS

With quick, easy setup and intuitive operation, the compact MA and 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.

- Simple, user-friendly interface Stereo and microphone inputs (MA series)
- DSP functions optimized for background music (MA series) Switchable for low (3/4/8 Ω) and high (70/100 V) impedance speaker systems
- Stereo source EQ with enhancer function (MA series)
- EQ for optimum performance with Yamaha VXC/VXS series speakers built in
- Easy service zone expansion with PA series amplifiers (PA2030a excluded)
- Optional DCP control panels allow convenient remote volume control, microphone ON/OFF switching and chime activation (PA2030a excluded)
- Industry leading Yamaha quality control and reliability Compact, space-saving design*



* All models are naturally cooled designs that require sufficient surrounding space for airflow.



POWER AMPLIFIERS

GENERAL SPECIFICATIONS

MODEL		MA2120	PA2120	MA2030A	PA2030A			
Output power	1kHz (THD+N=1%: 3Ω)	100W x 2 (20ms Burst)	100W x 2 (20ms Burst)	30W x 2 (20ms Burst)	30W x 2 (20ms Burst)			
	High impe- dance: 100V line	120W x 2 or 200W x 1	120W x 2 or 200W x 1	60W x 1	60W x 1			
lotal harmonic distort	ion	≤0.2% (Line in to Speaker out, Half po in to Speaker out, Half Power @1kHz,	wer @1kHz, 3Ω/4Ω/8Ω), ≤0.2% (Line 70V/100V, 120W/200W)	≤ 0.1% (Stereo in to Speaker out @1kł (Stereo in to Speaker out @1kHz, Half				
Frequency response		0dB, -2.5dB, +1.0dB (Line in to Line out, 20Hz to 20KHz), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 50Hz to 20KHz, 1W, 3Ω/4Ω/8Ω), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 90Hz to 20kHz, 1W, 70V/100V, 120W/200W)	0dB, -2.5dB, +1.0dB (Line in to THRU OUT, 20Hz to 20KHz), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 50Hz to 20kHz, 1W, $3\Omega/4\Omega/8\Omega$), 0dB, -3.0dB, +1.0dB (Line in to Speaker out, 90Hz to 20KHz, 1W, 70V/100V, 120W/200W)	OdB, -2.5dB, +1.0dB (Stereo in to Line out, 20Hz to 20kHz), OdB, -3.0dB, +1.0dB (Stereo in to Speaker out, 50Hz to 20kHz, 1W, $3\Omega/4\Omega/8\Omega$), OdB, -3.0dB, +1.0dB (Stereo in to Speaker out, 90Hz to 20kHz, 1W, 70V/100V)	OdB, -3.0dB, +1.0dB (Line in to Speaker out, 50Hz to 20kHz, 1W $3\Omega/4\Omega/8\Omega$), OdB, -3.0dB, +1.0dI (Line in to Speaker out, 90Hz to 20kHz, 1W, 70V/100V)			
Crosstalk		≤ -70dB (MIC/LINE input to other MIC/LINE input)	-	≤ -70dB (Stereo in to other Stereo in)	-			
/O Connectors	Mic/Line Input	Input 1-6: 3.5mm Euroblock (6-pin, balanced) x 3		-	-			
	Line Input	Input 1-6: 3.5mm Euroblock (6-pin, balanced) x 3	Input A-B:MONO RCA pin x 2 (unbalanced) or 3.5mm Euro block (6-pin, balanced)		-			
	Speaker Output	Barrier strip x 2 pairs	Barrier strip x 2 pairs	Barrier strip x 2 pairs	Barrier strip x 2 pairs			
	Line Out	LINE OUT: MONO RCA pin x2 (unbalanced)	THRU OUT: MONO RCA pin (unba- lanced) x2	Stereo RCA pin (unbalanced)	-			
	Control ports	RJ-45 (for DCP4V4S, DCP1V4S , DCP4S), Remote (3.5mm Euro block 3-pin)	RJ-45 (for DCP4V4S, DCP1V4S , DCP4S), Remote (3.5mm Euro block 3-pin)	RJ-45 (for DCP1V4S)	-			
	Mic Input	-	-	MIC IN 1: XLR combo jack (balan- ced), MIC IN 2: 3.5mm Euroblock (3-pin, balanced)	-			
	Stereo Input	-	-	ST IN 1: Stereo mini phone (3.5mm, unbalanced), ST IN 2 / ST IN 3: Stereo RCA pin (unbalanced)	LINE IN: Stereo RCA pin (unba- lanced), 3.5mm Euroblock (3-pin, balanced) x 2			
Input Level		Mic input: -56dBu (Sensitivity), -36dBu (Nominal), -8dBu (Max before clip) / Line input (unbalan- ced): -30dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip) / Line input (balanced): -24dBu (Sensitivity), -4dBu (Nominal), +22dBu (Max before clip)	Line input (unbalanced): -10dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip) / Line in- put (balanced): +4dBu (Sensitivity), +4dBu (Nominal), +24dBu (Max before clip)	Mic input: -76 dBu (Sensitivity), -66 dBu (Nominal), -22 dBu (Max before clip) / Line input: -10dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip)	Line input (unbalanced): -10dBV (Sensitivity), -10dBV (Nominal), +10dBV (Max before clip) / Line put (balanced): +4dBu (Sensitivity +4dBu (Nominal), +24dBu (Max before clip)			
Output Level		-10dBV (LINE OUT, Nominal)	-10dBV (THRU OUT, Nominal)	-10dBV (LINE OUT, Nominal)	-			
Processors		Speaker EQ (VXS:Full Range, VXC, VXS10S/ST), HPF (150Hz), LPF (150Hz, 200Hz)	Speaker EQ (VXS:Full Range, VXC, VXS10S/ST), HPF (150Hz), LPF (150Hz, 200Hz)	Speaker EQ (VXS:Full Range, VXC), HPF (150Hz)	Speaker EQ (VXS:Full Range, VXC VXS10S/ST), HPF (150Hz), LPF (150Hz, 200Hz)			
Protection circuit	Load protection	Power switch on/off: Mute the output*, Output voltage protection: Compress the output*, DC-fault: Power supply shutdown (*Restored automatically)						
	Amplifier protection	Thermal: Limit the output* \rightarrow Mute* \rightarrow 3	Shutdown, Over current: Mute the output	*, Integrated power limit: Compress the o	output* (*Restored automatically)			
	Power supply protection	Thermal: Power supply shutdown, Over Over current: Limit the output* →Power matically)		Thermal: Power supply shutdown, Over Over current: Power supply shutdown				
Amplifier class		Class D	Class D	Class D	Class D			
Cooling		Conventional cooling, bottom to up air	flow					
Power requirements		100V, 120V, 230V - 240V, 50Hz / 60Hz	100V, 120V, 230V - 240V, 50Hz / 60Hz	100V, 120V, 230V-240V; 50Hz/60Hz	100V, 120V, 230V-240V; 50Hz/60Hz			
Power consumption		60W (1/8 max power, 4Ω , AC100V, pink noise at all channels)	60W (1/8 max power, 4Ω, AC100V, pink noise at all channels)	30W (1/8max. power, 3Ω, AC 100V, pink noise at all channels)	30W (1/8max. power, 3Ω, AC 100V, pink noise at all channels)			
Dimensions	WxHxD	480x45x379 mm ^{*1}	480x45x379 mm ^{*1}	215x54x288 mm *1	215x54x288 mm ^{*1}			
Net weight		4.9kg (10.8lbs)	4.8kg (10.6lbs)	1.8kg (4.0lbs)	1.8kg (4.0lbs)			
Accessories		AC power cable, 3.5mm Euroblock plug (6-pin) x 3, Euroblock pulg (3-pin) x 1, Owner's manual, Setup guide	AC power cable, 3.5mm Euroblock plug (6-pin) x 1, Euroblock pulg (3-pin) x 1, Owner's manual, Speci- fication sheet	AC power cable, 3.5mm Euroblock plug (3-pin) x 1, Owner's manual, Specification sheet	AC power cable, 3.5mm Eurobloc plug (3-pin) x 2, Owner's manual, Specification sheet			
Options		DCP4V4S, DCP1V4S, DCP4S (Digi- tal Control Panel)	DCP4V4S, DCP1V4S, DCP4S (Digi- tal Control Panel)	RKH1 (Rack-mount Accessory), DCP1V4S (Digital Control Panel)	RKH1 (Rack-mount Accessory)			
		ENERGY STAR	ENERGY STAR					

PC-1N SERIES









PC9501N	PC6501N	PC4801N	PC3301N	PC2001N
2 x 1600W@4Ω	2 x 1100W@4Ω	2 x 850W@4Ω	2 x 600W@4Ω	2 x 400W@4Ω

NEW BENCHMARKS FOR QUALITY, RELIABILITY, AND VERSATILITY IN PROFESSIONAL POWER APPLICATIONS

- In-depth analysis and circuit innovation, meticulous part selection, and advanced circuit mounting methods deliver outstanding sound quality with the lowest possible distortion.
- Advanced EEEngine technology achieves high-quality sound and exceptional power output with dramatically reduced power consumption.
- Selectable stereo, dual mono and bridged mono modes for maximum versatility.
- A comprehensive selection of rear-panel terminals and connectors for versatile connectivity.
- An impressive array of protection circuitry and indicators ensure stable operation and accurate monitoring.
- Built-in high-pass (subsonic) filter cuts frequencies below 20 Hz.
- The PC3301N has been specially designed for use as a distribution amplifier in installations, and is capable of driving high-impedance loads with multiple parallel-connected 100-volt line speakers.
- Ideal matches for the DME64N/24N Digital Mixing Engines and Installation Series speakers.
- PC01N series is available on a built to order schedule



GENERAL SPECIFICATIONS

Model			PC9501N	PC6501N	PC4801N	PC3301N	PC2001N	PC9501N	PC6501N	PC4801N	PC3301N	PC2001N
					120V/240V					230V	I	1
Output Power	1kHz, THD+N = 1%	4Ω	1600W x 2	1100W x 2	850W x 2	600W x 2	400W x 2	1650W x 2	1150W x 2	800W x 2	700W x 2	450W x 2
		8Ω	1000W x 2	700W x 2	550W x 2	350W x 2	230W x 2	1050W x 2	750W x 2	500W x 2	400W x 2	250W x 2
		8Ω bridge	3200W	2200W	1700W	1200W	800W	3300W	2300W	1600W	1400W	900W
	1kHz, 20ms burst	2Ω	2300W × 2	1500W x 2	1200W x 2	800W x 2	500W x 2	2300W x 2	1600W x 2	1200W x 2	900W x 2	600W x 2
		4Ω bridge	4600W	3000W	2400W	1600W	1000W	4600W	3200W	2400W	1800W	1200W
	20Hz ~ 20kHz,	4Ω	1400W x 2	930W x 2	725W x 2	525W x 2	325W x 2	1500W x 2	930W x 2	700W x 2	550W x 2	400W x 2
	THD+N = 0.1%	8Ω	925W x 2	650W x 2	475W x 2	330W x 2	200W x 2	950W x 2	650W x 2	475W x 2	350W x 2	230W x 2
	-	8Ω bridge	2800W	1860W	1450W	1050W	650W	3000W	1860W	1400W	1100W	800W
	High Impedance	100V Line		-	-	625W/16Ω (Bridge)	-	-	-	-	625W/16Ω (Bridge)	-
Voltage Gain	RL=8Ω				32dB					32dB		
Input Sensitivity	RL=8Ω		+9.2dBu	+7.7dBu	+6.7dBu	+4.7dBu	+2.9dBu	+9.5dBu	+8.0dBu	+6.2dBu	+5.3dBu	+3.2dBu
S/N Ratio	20Hz~20kHz, DIN	IAUDIO	106dB	105dB	103dB	101dB	100dB	106dB	105dB	103dB	101dB	100dB
Power Consumption	1/8 power (4Ω pink noise)		750W/1000W	700W/800W	450W/600W	450W/500W	350W	1100W	800W	600W	500W	350W
	Idle		55W	40W	40W	40W	40W	55W	40W	40W	40W	40W
THD+N	20Hz~20kHz, 1/3	2 power, RL=40	2 Less than 0.1%	Less than 0.1%								
Frequency Response	RL=8Ω, Po=1W, 2	0Hz - 20kHz	+0dB, -1.0dB									
Crosstalk	1kHz, half power, 8 Att. max, input 600		Less than -70dB									
Damping Factor	RL=8Ω, 1kHz			More th	an 800		More than 500		Moret	nan 800		More than 500
Maximum Input Level			+22dBu									
Input Impedance			20kΩ (balanced), 10kΩ (unbalar	nced)							
Controls	Front Panel		POWER switch x 1 (push on/push off), Attenuator x 2 (31position)									
	Rear panel		MODE switch x	I (STEREO/BRID	GE/PARALLEL),	HPF switch x 1 (C	N/OFF) (Fc=20)Hz, 12dB/oct), J	AMP ID switch x	1 (6P DIP)		
Connectors	Input		XLR-3-31 type x 2, Euroblock connector x 2 pairs (balanced)									
	Output		Neutrik® SPEAKON® NL4 x 2, 5-way binding post x 2 pairs									
	Data Port		RJ45 x 2									
	Power		AC Inlet x 1									
Indicators			POWER/STAND	BY x 1 (Green/C	Drange), PROTE	CTION x 1 (Red),	TEMP x 1 (Red)	heatsink temp ≥	85°C, REMOTE	x 1 (Green)		
Level Meters			10 point LED me	erx 2								
Load Protection			POWER switch o	n/off mute, DC-f	ault: Amplifier sh	uts down automo	itically, Clip limit	ing: THD ≥ 0.5%				
Amplifier Protection			Thermal (heatsin	k temp ≥ 90°C),	VI limiter (RL ≤ 1	Ω)						
Cooling Fan			Variable-speed f	an x 2								
Power Requirements			120V, 60Hz; 22	0V-240V, 50Hz/	/60Hz							
Dimensions (WxHxD)			480 x 88 x 456	mm (18-7/8" x 3-	-7/16" x 17-15/1	6")						
Weight			12.5kg (27.6lbs)	(PC9501N: 13k	g (28.6lbs))							
Included Accessories			Power cable x 1,	Security cover x	1 Euroblock co	nnector x 2 (3P)	Owner's manua					

XP SERIES



FIVE SUPERB AMPLIFIERS OPTIMIZED FOR INSTALLATION USE.

- Advanced circuit design and anti-vibration measures inherited from the PC-1N series deliver tight, solid lows, extraordinary midrange presence, and precisely defined highs.
- Yamaha EEEngine technology achieves unmatched efficiency.
- +4dBu/26dB/32dB gain switch for flexible level matching.
- Lightweight, compact 2U design for easy handling and installation.
- Monitor and Remote terminals for remote monitoring and control.
- Precision 1-dB/step detented attenuators.
- XLR and Euroblock input terminals.
- Speakon and 5-way binding post output terminals.
- Frequency-switchable high-pass filter for subsonic noise reduction or subwoofer matching.
- Comprehensive protection circuits, indicators and variable-speed cooling.
- Ideal matches for the DME/MTX/MRX series processors and Installation Series speakers.
- XP7000 can be used to drive 70V lines (stereo), while XP3500 is compatible with 100V lines (bridged) for high-impedance multi-speaker systems.





XP7000	XP5000	XP3500	XP2500	XP1000
2 x 1100W@4Ω	2 x 750W@4Ω	2 x 590W@4Ω	2 x 390W@4Ω	2 x 155W@4Ω





GENERAL SPECIFICATIONS

Model			XP7000	XP5000	XP3500	XP2500	XP1000	XP7000	XP5000	XP3500	XP2500	XP1000
					120V/240V					230V		
Output Power 1kHz, 1	1kHz, THD+N = 1%	4Ω	1100W x 2	750W x 2	590W x 2	390W x 2	165W x 2 (120V) 155W x 2 (240V)	1100W x 2	750W x 2	590W x 2	390W x 2	155W x 2
		8Ω	750W x 2	525W x 2	390W x 2	275W x 2	135W x 2 (120V) 120W x 2 (240V)	750W x 2	525W x 2	390W x 2	275W x 2	125W x 2
		8Ω bridge	2200W	1500W	1180W	780W	330W (120V) 310W (240V)	2200W	1500W	1180W	780W	310W
	1kHz, 20ms burst	2Ω	1600W x 2	1300W x 2	1000W x 2	650W x 2	250W x 2	1600W x 2	1300W x 2	925W x 2	650W x 2	250W x 2
		4Ω bridge	3200W	2600W	2000W	1300W	500W	3200W	2600W	1850W	1300W	500W
THD+N = 0	20Hz ~ 20kHz, THD+N = 0.1%	4Ω	950W x 2	700W x 2	450W x 2	300W x 2	125W x 2 (120V) 110W x 2 (240V)	950W x 2	700W x 2	435W x 2	295W x 2	115W x 2
		8Ω	700W x 2	500W x 2	350W x 2	250W x 2	110W x 2 (120V) 100W x 2 (240V)	690W x 2	500W x 2	350W x 2	250W x 2	100W x 2
		8Ω bridge	1900W	1400W	900W	600W	250W (120V) 220W (240V)	1900W	1400W	870W	590W	230W
	High Impedance	100V Line		-	625W/16Ω (Bridge)	-	-	-	-	625W/16Ω (Bridge)	-	-
		70V Line	625W x 2/8Ω	-	-	-		625W x 2/8Ω	-		-	-
Voltage Gain	RL=8Ω		2/ 012		26dB/32dB			2/ 012		26dB/32dB		
Ū		+4dBu position	35.7dBu	34.2dBu	32.7dBu	31.2dBu	27.2dBu	35.6dBu	34.2dBu	32.7dBu	31.2dBu	27.2dBu
Input Sensitivity RL=80	RL=8Ω				+4dBu					+4dBu		
		26dB position	+13.7dBu	+12.2dBu	+10.7dBu	+9.2dBu	+5.2dBu	+13.6dBu	+12.2dBu	+10.7dBu	+9.2dBu	+5.2dBu
		32dB position	+7.7dBu	+6.2dBu	+4.7dBu	+3.2dBu	-0.8dBu	+7.6dBu	+6.2dBu	+4.7dBu	+3.2dBu	-0.8dBu
S/N Ratio	20Hz~20kHz, DIN A	UDIO	104dB	103dB	102dB	100dB	96dB	104dB	103dB	102dB	100dB	96dB
	1/8 power (4Ω pink	noise)	650W	500W	450W	320W	170W	650W	500W	450W	320W	170W
	Idle	_	35W	35W	30W	25W	20W	35W	35W	30W	25W	20W
	Standby		5W	5W	5W	5W	5W	5W	5W	5W	5W	5W
THD+N	20Hz~20kHz, 1/2 p	Less than 0.1%										
Frequency Response	RL=8Ω, Po=1W, 20H	z - 20kHz	+0dB, -1.0dB									
Crosstalk	1kHz, half power, 8Ω Att. max, input 600Ω		Less than -70	dB								
Damping Factor	RL=8Ω, 1kHz		More than 35	More than 350 More than 200 More than 350 More than 200								
Maximum Input	Level		+22dBu									
Input Impedance	1		20kΩ (balan	ced), 10kΩ (un	balanced)							
Controls	Front Panel	POWER switch x 1 (push on/push off), Attenuator x 2 (31position)										
	Rear panel	_	MODE switch x 1 (STEREO/BRIDGE/PARALLEL), HPF switch x 2 (20Hz/55Hz/OFF) (12dB/oct), GAIN switch x 1 (+4dBu/26dB/32dB)									
Connectors	Input	XLR-3-31 type x 2, Euroblock connector x 2 pairs (balanced)										
	Output		Neutrik® SPEAKON® NL4 x 2, 5-way binding post x 2 pairs									
	Monitor/Remote			D-SUB 15P x 1 POWER/STANDBY x 1 (Green/Orange), PROTECTION x 1 (Red), TEMP x 1 (Red) heatsink temp ≥ 85°C, SIGNAL x 2 (Green), CLIP/LIMIT x 2 (Red								
Indicators Load Protection			POWER swite	h on/off mute,	DC-fault: Ampli XP2500, XP100	fier shuts down	automatically	/ (XP7000, XP5	000 Operation			/LIMII x 2 (Ke
Amplifier Protect	ion				sink temp ≥ 90°					1Ω): Limit the	output	
Cooling Fan			Variable-spee	-	Variable-spee			Variable-spee		Variable-spee		
Power Requireme	ents			240V; 50Hz/6								
Dimensions (Wx					" x 3-7/16" x 1	7-15/16")						
Weight					14kg (30.9lbs)		g (33.1lbs),)	(P1000: 12kg	(26.5lbs)			
	ories		c	1 5 11	k connector x 2	(20) 0 1	1					

PX SERIES



DSP POWER AMPLIFIERS

Yamaha's new **PX SERIES** power amplifiers are ideal for a wide range of installation and sound reinforcement applications. This line consists of 4 models, each providing exceptional output performance and advanced processing. Equipped with smart Quick-Config mode and a wide range of Yamaha speaker presets, these amplifiers gives optimal processing and provides maximum output to the speakers. Perfect companions to Yamaha's popular speaker lines such as CBR, Club, Installation and VXS/VXC series.

- * SOPHISTICATED DSP PROCESSING WITH FLEXIBLE ON-BOARD PEQ, CROSSOVER, FILTERS, DELAY AND LIMITER D-CONTOUR MULTI-BAND DYNAMIC PROCESSING
- EASY LCD OPERATION WITH USB DATA TRANSFER AND LOGGING
- * NEWLY DEVELOPED CLASS-D AMPLIFIER ENGINE



PX10: 2 X 1000W



PX8 : 2 X 800W



PX 5 : 2 X 500W



PX3 : 2 X 300W





GENERAL SPECIFICATIONS

MODEL		PX10	PX8	PX5	PX3				
OUTPUT POWER;	8Ω	1000W x 2	800W x 2	500W x 2	300W x 2				
1KHZ NON-CLIP 20MSEC BURST BOTH CHANNELS DRIVEN	4Ω	1200W x 2	1050W x 2	800W x 2	500W x 2				
	2Ω	700W x 2	600W x 2	500W x 2	300W x 2				
	8Ω/Power Boost Mode			800W x 1	600W x 1				
	4Ω/Power Boost Mode		-	1400W x 1	1000W x 1				
SAMPLING FREQUENCY RATE	Internal	48kHz	48kHz 48kHz		48kHz				
A/D D/A CONVER	TERS	AD/DA: 24-bit linear, 128 times over sampling							
TOTAL HARMONIC	DISTORTION	0.1% (1kHz, 10W), 0.3% (1kHz, Half power)							
FREQUENCY RESPO	ONSE	±1.0dB (1W, 8Ω, 20Hz to 20kHz)							
S/N RATIO		101dB (A-weighted, 8Ω, Gain setting = +14dBu)							
CROSSTALK			BΩ, 1kHz, Vol max input 150Ω :	shunt)					
VOLTAGE GAIN/ SENSITIVITY	8Ω Volume max	32.0dB/+9.3dBu (Gain setting: 32dB), 26.0dB/+15.3dBu (Gain set- ting: 26dB), 37.3dB/+4dBu (Gain setting: +4dBu), 27.3dB/+14dBu (Gain setting: +14dBu)	32.0dB/+8.3dBu (Gain setting: 32dB), 26.0dB/+14.3dBu (Gain set- ting: 26dB), 36.3dB/+4dBu (Gain setting: +4dBu), 26.3dB/+14dBu (Gain setting: +14dBu)	32.0dB/+6.3dBu (Gain setting: 32dB), 26.0dB/+12.3dBu (Gain set- ting: 26dB), 34.3dB/+4dBu (Gain setting: +4dBu), 24.3dB/+14dBu (Gain setting: +14dBu)	32.0dB/+4.1dBu (Gain setting: 32dB), 26.0dB/+10.1dBu (Gain set ting: 26dB), 32.1dB/+4dBu (Gain setting: +4dBu), 22.1dB/+14dBu (Gain setting: +14dBu)				
	8Ω Volume max /Power Boost mode			34.0dB/+6.3dBu (Gain setting: 32dB), 28.0dB/+12.3dBu (Gain set- ting: 26dB), 36.3dB/+4dBu (Gain setting: +4dBu), 26.3dB/+14dBu (Gain setting: +14dBu)	35.0dB/+4.1dBu (Gain setting: 32dB), 29.0dB/+10.1dBu (Gain set- ting: 26dB), 35.1dB/+4dBu (Gain setting: +4dBu), 25.1dB/+14dBu (Gain setting: +14dBu)				
MAXIMUM INPUT VOLTAGE		+24dBu	+24dBu	+24dBu	+24dBu				
INPUT IMPEDANCE		20kΩ (Balance), 10kΩ (Unbalance)							
I/O CONNECTORS	Speaker output ports	Neutrik speakON NL4 x2, Binding post x2 pairs, 1/4" PHONE(TS) x2	Neutrik speakON NL4 x2, Binding post x2 pairs, 1/4" PHONE(TS) x2	Neutrik speakON NL4 x2, Binding post x2 pairs, 1/4" PHONE(TS) x2	Neutrik speakON NL4 x2, Binding post x2 pairs, 1/4" PHONE(TS) x2				
	Line Input	XLR-3-31 x2, 1/4 "PHONE(TRS) x2							
	Others	USB 2.0 Standard-A Connector (Female) for Save/Load, Speaker preset update, Firmware update with USB memory; AC inlet x1 with AC cord clamp							
INDICATORS		POWER x1 (Green), ALERT x1 (Red), USB x1 (Green), PROTECT x2 (Red), CLIP/LIMIT x2 (Red), SIGNAL x2 (Green); Auto LED off feature							
PROCESSORS		Input summing; D-CONTOUR(FOH/MAIN, MONITOR, OFF); Delay(0 - 74msec); HPF/LPF(cutoff frequency 20Hz~20kHz with polarity control); Speaker Processor(6 band PEQ* + Limiter + Delay)							
LATENCY		1.5 msec (Analog Input to Speakers)							
PRESETS		8 user amplifier presets (Factory preset: Speaker presets for Yamaha passive speakers)							
PROTECTION CIRCUIT	Load protection	POWER switch on/off: Output mute; Output voltage protection: Over voltage limiter, user configurable by wattage and speaker preset; DC-fault: Power Supply shutdown (NOT restored automatically)							
	Amplifier protection	Thermal: Output limiter (Restored automatically) → Output mute (Restored automatically); Over current: Output mute (Restored automatically); Over voltage: Output limiter (Restored automatically); Integrated Power Limit: Output limiter (Restored automatically)							
	Power supply protection	Thermal: Output limiter (Restored automatically) → Power supply shutdown; Over voltage: Power supply shutdown; Over current: Power supply shutdown							
AMPLIFIER CLASS		Class D, Balanced output circuit (BTL)							
COOLING		16 step variable speed fan x 2, front to rear airflow							
POWER REQUIREMENTS		Depending on area of purchase; 100V 50Hz/60Hz, 120V 60Hz, 220V-240V 50Hz/60Hz *Verified as operating at rated power voltage +/- 10% voltage.							
POWER CONSUMPTION		310W (1/8 MAX power, 4Ω, Pink noise at all chan- nels), 60W (4Ω, Idling)	280W (1/8 MAX power, 4Ω, Pink noise at all chan- nels), 60W (4Ω, Idling)	230W (1/8 MAX power, 4Ω, Pink noise at all chan- nels), 55W (4Ω, Idling)	160W (1/8 MAX power, 4Ω, Pink noise at all chan- nels), 55W (4Ω, Idling)				
DIMENSIONS	W×H×D	480x88x388 mm	480x88x388 mm	480x88x388 mm	480x88x388 mm				
NET WEIGHT		7.4 kg	7.2 kg	6.9 kg	6.9 kg				
ACCESSORIES		USB cover, Owner's Manual, Specification sheet, AC cable (2.0m) x 1							
OTHERS			or (Female) for Save/Load, Spec		date with USB memory;				

*ONLY PRESET RECALL, USER CANNOT ADJUST THE PARAMETERS.

AMP EDITOR



INTUITIVE, PLUG AND PLAY AMP MANAGEMENT SOFTWARE

AMP EDITOR is a dedicated software application for Yamaha amplifiers that makes amplifier management easy. Remotely control and monitor amplifiers simply by connecting your TXn, XMV amplifiers to an Ethernet port on a computer via a standard high-speed Ethernet switch. Connection to the Amp Editor network requires no special drivers so that your system is up and running in no time. All TXn amplifier functions and available DSP parameters can be controlled using Amp Editor. Using Amp Editor will give users much more real time information about the conditions of the amplifiers than previously possible. The software can, for example, warn you when a parameter exceeds a predefined voltage, wattage, or impedance (upper/lower) value. By monitoring these parameters, you are also notified instantly if a problem is detected in the input or output signal chain, for example a blown speaker driver on an amplifier channel. Amp Editor will keep logs of these warnings into a file so it's easy to pinpoint and trouble-shoot problems.



*** TREE VIEW**

All your amplifiers in the network at a glance. Double click on an amplifier to open the "Detail View" screen.



*** SYSTEM VIEW**

Manage multiple amplifiers using the System View window. You have access to key parameters and components from this screen. You may also choose to create your own custom control panel.





* DETAIL VIEW

This window gives you in-depth information of the selected amplifier.

* SIGNAL PATH

(This feature is for TXn series power amplifiers) Audio signal processing functions of the amplifier are placed in the signal path as modular components.

D/2 40





RIVAGE PM SERIES



PERFECTING THE ART OF LIVE SOUND

Yamaha's first professional live sound console, the PM200, was released more than 40 years ago.

The PM series has provided fertile ground from which numerous significant sound reinforcement milestones have grown ever since. Many of those innovations have become benchmarks that professionals depend on to this day. The **RIVAGE PM10** launched a new generation of PM consoles that have already become standards in large-scale live sound applications because of their unequalled sound, operation, functionality, reliability, expandability, and more. Now the **RIVAGE PM7** digital mixing system expands the digital mixing options available for an even broader range of applications. The Yamaha "PM brand" continues to bring true innovation to the developing live sound scene.



A CHOICE OF SYSTEMS FOR ANY APPLICATION

THE RIVAGE PM SERIES OFFERS A CHOICE OF SYSTEMS THAT CAN BE CONFIGURED TO IDEALLY SUIT A WIDE RANGE OF APPLICATIONS.

A basic RIVAGE PM10 system consists of the DSP-R10 DSP engine where all the signal processing magic actually happens, the CS-R10/CS-R10-S control surface for intuitive hands-on operation, one or more I/O Rack units for input and output connections, and one or more network cards for network connectivity. The flagship RIVAGE PM10 system also allows DSP mirroring for maximum dependability in mission critical applications while providing the capacity needed for large-scale setups.

A RIVAGE PM7 system is a little more compact, with signal processing for mixing and effects built into the central CSD-R7 digital mixing console. Other required components are one or more I/O racks for input and output, and a dedicated interface card for network connectivity. The RIVAGE PM7 system's CSD-R7 digital mixing console is the same size as the RIVAGE PM10 system CS-R10 control surface and has the same control layout, and with built-in DSP it offers similarly high standards of operation and workflow efficiency in a relatively compact, portable system.



THE RIVAGE PM SOUND IS THE MUSIC ITSELF

The ideal starting point for creative audio engineering is transparent, uncolored sound. All Yamaha mixers are built on that philosophy, with the goal of allowing engineers to capture the on-stage sound accurately, without coloration, and then add creative touches as required. The merits of Yamaha's unwavering adherence to this concept are evident throughout the RIVAGE PM series. Input circuitry and processing are critical to achieving the required sonic quality. The output end of the signal chain plays an important role in maintaining that quality too. Yamaha offers two types of high-performance I/O Rack units for RIVAGE PM system input and output, each providing compatibility with a different audio network.

One is the TWINLANe network, using optical cable to simultaneously carry up to 400 audio channels. Combinations of the RPio622 and/or RPio222 I/O racks and HY256-TL or HY256-TL-SMF audio interface cards allow input via Hybrid Microphone Preamplifiers with analog input stages that take the Yamaha "natural sound" concept to new heights, as well as digital sections with immaculate VCM-technology models of Rupert Neve Designs transformer and SILK processing circuitry that offer outstanding musicality and atmosphere.

Then there's the Dante audio network from Audinate, already standard in CL and QL series digital consoles as well as a range of other Yamaha pro audio products.

Dante-equipped 2 and Rio1608-D2 I/O Racks and the HY144-D audio interface card can be combined to provide natural sound input at full RIVAGE PM series quality.

RUPERT NEVE QUALITY FOR ALL ENGINEERS

(RPio622 & RPio222)

When fitted with RY16-ML-SILK analog input cards the RPio622 and RPio222 I/O racks offer outstanding emulations of the transformer circuitry and SILK processing featured in microphone preamplifiers from Rupert Neve Designs, immaculately modeled using acclaimed Yamaha VCM (Virtual Circuitry Modeling) technology.

Many recording engineers value Rupert Neve microphone preamps for their appealing natural compression and saturation. SILK processing can take that seductive sonic foundation to new levels with added power and flair. Sounds that tend to get lost in the mix are given new life and luster with a lush analog-like core.

The SILK processing function provided in the RIVAGE PM series Hybrid Microphone Preamplifiers offers two variations: "RED" for sparkling energy, and "BLUE" for solidity and power. There's also a continuously variable "TEXTURE" knob that musically shapes the harmonic components to best suit the source. The benefits of SILK processing are also evident in the way channel EQ and reverb plug-ins affect the sound. The RIVAGE PM series makes the coveted Rupert Neve preamplifier sound available to a wider range of engineers who can put it to creative use.



TOSHIFUMI KUNIMOTO ENGINEERING MANAGER, RESEARCH & DEVELOPMENT DIVISION







DAN DUGAN AUTOMATIC MIXER BUILT IN

Through in-depth collaboration with Dan Dugan Sound Design, renowned Dan Dugan automatic microphone mixing with its advanced algorithms is built into the RIVAGE PM series digital mixing systems. Setup is easy: just insert the processor into up to 64 channels for automatically optimized microphone gain distribution. Gain control is smooth and natural, as though experienced human operators were doing the mix. The system also effectively reduces feedback and comb filter issues.

For speech applications, especially non-scripted situations, this allows the operator to concentrate on details other than fader operation for consistently high-quality mixes.





POLISHED OPERATION OFFERS CONFIDENCE AND COMFORT

Since the mixing console is the engineer's primary tool, its operability is crucial, particularly in today's rapidly evolving live sound environment. RIVAGE PM series systems feature a unique Hybrid Operation Style that takes the most highly valued aspects of Yamaha digital mixing consoles to a new, highly refined level, giving engineers unprecedented expressive control. Underpinning the system's extraordinary operability is a full implementation of Yamaha's acclaimed Selected Channel interface on the right side of the prominently raised control surface, allowing all parameters of the currently selected channel to be directly and intuitively controlled. The left side of the panel features two large LCD touch screens that provide logical continuity with the faders below, offering Centralogic style control of a large number of simultaneous channels. In addition to these two interface features, encoder position visibility has been enhanced, as have a number of other details that contribute to significantly improved operability overall. With operation and features designed to comprehensively support today's live sound scene, the RIVAGE PM series allows engineers to focus on the sound and enjoy the creative process.



OVERVIEW



SELECTED CHANNEL



ERGONOMICS FADER KNOBS



HORSESHOE-SHAPED ENCODER RINGS

SURROUND MONITOR

EVOLVING FUNCTIONALITY AND SCALABILITY

Because evolving applications continually raise new challenges and needs, Yamaha provides continuing support in the form of firmware updates that keep our digital mixers, RIVAGE PM systems included, up to date and often ahead of the curve. One of the major benefits offered by digital mixing systems is scene memory. But in order to accommodate individual situations and workflows it must be flexible and customizable. The RIVAGE PM series offers Overlay and Isolate filters as well as Event Lists functionality for significantly enhanced scene memory flexibility. RIVAGE PM series firmware Version 2.0 adds a number of important features, such as 5.1 surround panning and monitoring for broadcast applications, and two surround buses for efficient international feed production. A broadcast Mix Minus function is provided too, allowing a specified source to be removed from a specified remote feed with just a few steps. Dual Console and Port to Port functions contribute to broad system configurability, as does the DSP Mirroring functionality of the RIVAGE PM10.



OVERLAY

EVENT LIST



EQ/COMP DESIGNED BY RUPERT NEVE, EVENTIDE ULTRA HARMONIZER, AND MORE

Processing quality has always been a major strength of Yamaha digital consoles. The RIVAGE PM series offers a comprehensive selection of plug-ins, including models of in-demand classics. The RIVAGE PM10 includes 50 plugins, while the RIVAGE PM7 includes 48. Ample processing power allows up to 192 instances of complex plug-ins such as the Portico 5033 or Portico 5043 to be used simultaneously. The easy-operation Rupert Neve Designs Portico 5045 introduced with firmware Version 2.0 effectively suppresses background noise at microphone inputs for enhanced clarity while significantly increasing the feedback margin, making it a valuable tool for live sound in houses of worship, stadiums, halls, and other environments where feedback can be problem. RIVAGE PM series plugins are carefully chosen, practical effects that can be invaluable for creative processing in real-world live sound applications.



Rupert EQ 773



Rupert EQ 810



Rupert Comp 754



Rupert Comp 830



Portico 5033



Portico 5043



Portico 5045



H3000 Live



Buss Comp 369







Dynamic EQ4

SYSTEM COMPONENTS AND SOFTWARE

RIVAGE PM10 CORE COMPONENTS

THE CONTROL SURFACE WITH TWO LARGE TOUCH PANEL DISPLAYS AND 38 FADERS ENABLES YOU TO PERFORM GENERAL OPERATIONS ON THE RIVAGE PM10 SYSTEM.



CS-R10

- Display: 15" touch panel x 2
- Faders: 38 (12+12+12+2)
- Selected Channel section: comprehensive channel parameters
- Custom Fader banks: 6 x 2 on each bay
- User Defined keys: 12 x 4 banks
- User Defined knobs: 4 x 4 banks
- Touch and Turn knobs: 2
- Analog I / O: 8 in / 8 out
- Slot: 2 MY slots
- AES/EBU: 4 in / 4 out (with SRC)
- Ports: GPI (8 in / 8 out), Word Clock Out, MIDI In / Out, 5 USB (1 for 2-track recording), Video Out (DVI-D)
- Power supply: Dual redundant power supply built-in
- Dimensions (WxHxD): 1,549 x 417 x 848mm
- Net Weight: 85 kg (187 lbs)

THE CONTROL SURFACE WITH SINGLE LARGE TOUCH PANEL DISPLAY AND 26 FADERS ENABLES YOU TO PERORM GENERAL OPERATIONS ON THE RIVAGE PM10 SYSTEM.

-0-0-0-0-0-0	
6-6-6-6-6-6	

CS-R10-S

- Display: 15" touch panel x 1
- Faders: 26 (12+12+2)
- Selected Channel section: comprehensive channel parameters
- Custom Fader banks: 6 x 2 on each bay
- User Defined keys: 12 x 4 banks
- User Defined knobs: 4 x 4 banks
- Touch and Turn knobs: 1
- Analog I / O: 8 in / 8 out
- Slot: 2 MY slots
- AES / EBU: 4 in / 4 out (with SRC)
- Ports: GPI (8 in / 8 out), Word Clock Out, MIDI In / Out, 5 USB (1 for 2-track recording), Video Out (DVI-D)
- Power supply: dual redundant power supply built-in
- Dimensions (WxHxD): 1,128 x 417 x 848mm
- Net Weight: 67 kg (147.7 lbs)

THE DSP-R10 IS A POWERFUL DSP ENGINE THAT SERVES AS THE CORE FOR SIGNAL PROCESSING AND SYSTEM CONTROL REQUIRED FOR THE RIVAGE PM10 SYSTEM.



DSP-R10

- Superior capability of processing digital audio signals of up to 144 input, 72 MIX, 36 MATRIX, and two STEREO channels.
- Four HY card slots that are capable of transmitting / receiving up to 256 ins / outs of digital audio signals / control signals.
- Two Mini-YGDAI slots to support various audio formats.
- Dual redundant power supply built-in
- Dimensions (WxHxD): 480 x 232 x 490.8mm (5U rack size)
- Net Weight: 20 kg (44 lbs)



MIXER

RIVAGE PM7 CORE COMPONENT

THE CSD-R7 IS A DIGITAL MIXING CONSOLE THAT SERVES AS THE CORE FOR SIGNAL PROCESSING AND SYSTEM CONTROL, AND ENABLES YOU TO PERFORM GENERAL OPERATIONS ON THE RIVAGE PM7 SYSTEM.



CSD-R7

- Superior capability of processing digital audio signals of up to 120 input, 60 MIX, 24 MATRIX, and two STEREO channels.
- Three HY card slots that are capable of transmitting / receiving up to 256 ins / outs of digital audio signals / control signals.
- Display: 15" touch panel x 2 Faders: 38 (12+12+12+2)
- Selected Channel section: comprehensive channel parameters
- Custom Fader banks: 6 x 2 on each bay
- User Defined keys: 12 x 4 banks
- User Defined knobs: 4 x 4 banks
- Touch and Turn knobs: 2
- Analog I / O: 8 in / 8 out
- Slot: 3 HY slots, 2 MY slots
- AES/EBU: 4 in / 4 out (with SRC)
- Ports: TC In, GPI (8 in / 8 out), Word Clock In / Out, MIDI In / Out, 5 USB (1 for 2-track recording), Video Out (DVI-D)Power supply: Dual redundant power supply built-in
- Dimensions (WxHxD): 1,549 x 417 x 848mm
- Net Weight: 94 kg (207 lbs)

I/O RACK

THE RPio622 IS AN AUDIO INTERFACE THAT ENABLES YOU TO FLEXIBLY CONFIGURE AND EXPAND I/OS FOR THE RIVAGE PM SYSTEM AS REQUIRED BY YOUR APPLICATION OR THE SCALE OF YOUR SYSTEM.



- Six RY card slots that enable you to expand analog inputs and outputs, and / or digital inputs and outputs.
- Two HY card slots that are capable of transmitting/receiving up to 256 ins / outs of digital audio signals/control signals.
- HY card slot 1 features 256 ins/outs, and HY card slot 2 features 128 ins / outs.
- Two mini-YGDAI slots to support various audio formats.
- Dual redundant power supply built-in
- Dimensions (WxHxD): 480 x 455 x 489.7mm (10U rack size)
- Net Weight: 30 kg (66 lbs)

SYSTEM COMPONENTS AND SOFTWARE

The RPio222 is an audio interface that enables you to flexibly configure and expand I/Os for the RIVAGE PM system as required by your application or the scale of your system.



- Two RY card slots that enable you to expand analog inputs and outputs, and / or digital inputs and outputs.
- Two HY card slots that are capable of transmitting/receiving up to 256 ins / outs of digital audio signals / control signals.
- HY card slot 1 features 256 ins / outs, and HY card slot 2 features 128 ins / outs.
- Two mini-YGDAI slots to support various audio formats.
- Dual redundant power supply built-in
- Dimensions (WxHxD): 480 x 232 x 491mm (5U rack size)
- Net Weight: 19 kg (41.9 lbs)

The Rio3224-D2 is a high-performance I/O Rack unit with built-in Dante audio networking. Designed and manufactured to achieve outstanding sonic transparency in keeping with Yamaha's "natural sound" philosophy.

	 32-channel mic / line input 16-channel analog outputs AES/EBU 8-channel digital outputs. Dual redundant power supply built-in Character / icon display allowing confirmation of Dante settings and edit/check gain, high-pass filters, and phantom power settings Dimensions (WxHxD): 480 x 220 x 367.5mm (18.9" x 8.7" x 14.5") Net Weight: 13.5 kg (29.8 lbs)
⊘Dante Rio3224-D2	2

The Rio1608-D2 is a high-performance I/O Rack unit with built-in Dante audio networking. Designed and manufactured to achieve outstanding sonic transparency in keeping with Yamaha's "natural sound" philosophy.





- 16-channel mic / line input
- 8-channel analog outputs
- Dual redundant power supply built-in
- Character / icon display allowing confirmation of Dante settings and edit/ check gain, high-pass filters, and phantom power settings
- Dimensions (WxHxD): 480 x 132 x 367.5mm
- Net Weight: 9.6 kg (21.2 lbs)





AUDIO INTERFACE CARD

The RY16-ML-SILK is a 16-channel mic / line input card that supports a 96 kHz sampling rate. It features a new revolutionary analog mic preamp combined with Silk processing from Rupert Neve Designs, which allows you to freely control depth and perspective through modeling in the digital domain. Each input connector can supply phantom power (+48V DC).

RY16-ML-SILK for RPio622 / RPio222

- 16-channel mic / line inputs
- SILK digital processing technology that has been co-developed by Rupert Neve Designs and Yamaha
- Dimensions (WxHxD): 405 x 42 x 258mm
- Net Weight: 1.6 kg (3.5 lbs)

The RY16-DA is a 16-channel analog output card that supports a 96 kHz sampling rate. You can use the switches on the board to set maximum output level to +15dBu, +18dBu, or +24dBu. The factory setting is +24dBu.

RY16-DA for RPio622 / RPio222

- 16-channel analog outputs
- Dimensions (WxHxD): 405 x 42 x 258mm
- Net Weight: 1.5 kg (3.3 lbs)

The RY16-AE is a 16-channel digital I/O card that supports the AES/EBU format. Sampling rate converters (SRC) are provided for each of the 16 input channels and 16 output channels.

RY16-AE for RPio622 / RPio222

- AES/EBU 16-channel digital I / Os.
- Sampling rate converter for both inputs and outputs.
- Dimensions (WxHxD): 405 x 42 x 258mm
- Net Weight: 1.4 kg (3.1 lbs)

The HY256-TL is a digital I / O card for HY card slots, and compatible with Yamaha's TWINLANe audio network protocol. The card supports multi-mode fiber connections for reliable operation.



HY256-TL TURE for DSP-R10 / CSD-R7 / RPio622 / RPio222

- Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, with a maximum of 256 inputs / 256 outputs.
- Redundant connections are supported with ring topology.
- Ind+C58icators show communication status useful for troubleshooting.
- Recommended cable: Neutrik opticalCON DUO multi-mode fiber
- Dimensions (WxHxD): 125 x 37 x 207mm
- Net Weight: 0.25 kg

SYSTEM COMPONENTS AND SOFTWARE

The HY256-TL-SMF is a digital I / O card for HY card slots, and compatible with Yamaha's TWINLANe audio network protocol. The card supports single-mode fiber connections for reliable operation over long distances.



HY256-TL TWINLANE for DSP-R10 / CSD-R7 / RPio622 / RPio222

- Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, with a maximum of 256 inputs / 256 outputs.
- Redundant connections are supported with ring topology.
- Indicators show communication status useful for troubleshooting.
- Recommended cable: Neutrik opticalCON DUO single-mode fiber
- Dimensions (WxHxD): 125 x 37 x 207mm
- Net Weight: 0.35 kg (0.8 lbs)

The HY144-D is a digital I / O card for HY card slots, and is compatible with the Dante digital audio network over Gigabit Ethernet connections.



^(a)Dante^{*} HY144-D for DSP-R10 / CSD-R7 / RPio622 / RPio222

- Can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, with a maximum of 144 inputs / 144 outputs.
- Redundant connections are supported with primary and secondary connectors. Daisy chain connections are also supported.
- Indicators show communication status useful for troubleshooting.
- Dimensions (WxHxD): 125 x 37 x 207mm
- Net Weight: 0.25 kg (0.6 lbs)

I/O RACK

^{(a}Dante^{*}

Ri8-D

• 8-channel mic / line inputs



RSio64-D

^{(a}Dante^{*}

The RSio64-D is an audio interface that can convert between Dante and Mini-YGDAI formats for up to 64 inputs and 64 outputs.

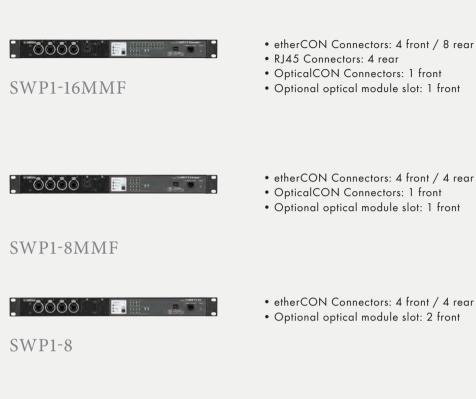


Ro8-D

@Dante[®]

• 8-channel analog outputs





SOFTWARE





RIVAGE PM STAGEMIX

RIVAGE PM StageMix provides remote control of RIVAGE PM series functions via a simple, intuitive graphical interface from anywhere within wireless range. The software has been specifically designed to allow engineers to adjust monitor mixes from the performers' positions on stage, directly controlling mix parameters via the iPad rather than having to rely on verbal directions to a second engineer.

stageMix

RIVAGE PM EDITOR

The RIVAGE PM Editor is a standalone application for computers running Windows or Mac operating systems, for both extended online operation and offline setup and editing.

CONSOLE FILE CONVERTER

The Yamaha Console File Converter is an application that allows data to be shared between a number of Yamaha digital mixing consoles. You can share data between RIVAGE PM series, CL / QL series, PM5D, M7CL, and LS9 consoles, so data from one show doesn't have to be completely reprogrammed from scratch for the next, even if different consoles are used.

FUNCTIONAL SPECIFICATIONS

RIVAGE PM10 RIVAGE PM7 (EXCLUDING I/O RACK) (EXCLUDING I/O RACK) Input Mixing Channels 120mono 144mono Mix Buses 72 60 Matrices 36 (Input to Matrix supported) 24 (Input to Matrix supported) MIXING CAPACITY Stereo Buses 2 2 Mono Buses 1 1 Cue Bus 2 2 Analog Input XIR 8 8 Analog Output XLR 8 8 HY Slots 4 (DSP-R10) 3 (CSD-R7) **Expansion Slots MY** Slots CS-R10 & CS-R10-S: 2 DSP-R10: 2 2 (CSD-R7) Digital In AES / EBU 4 4 Digital Out AES / EBU 4 4 IN (D-Sub) 8 (CS-R10 & CS-R10-S) / 8 (DSP-R10) 8 (CSD-R7) GPI Out (D-Sub) 8 (CS-R10 & CS-R10-S) / 8 (DSP-R10) 8 (CSD-R7) Word Clock I/O Only Out (CS-R10 & CS-R10-S) In/Out (DSP-R10) In / Out (CSD-R7) MIDI I/O In/Out (CS-R10 & CS-R10-S) In/Out (DSP-R10) In / Out (CSD-R7) File 4 4 USB 2 Track 1 1 LOCAL Rec / Play CONNECTORS External Redundant PSU Built-in dual power supply Built-in dual power supply Meter Bridge On screen On screen Ethernet Yes Yes CS-R10·4Lamp 4 (CSD-R7) CS-R10-S: 3 Talkback In Yes Yes Video Out Yes Yes TC In Yes (DSP-R10) Yes (CSD-R7) Fault Output Yes (DSP-R10) No Phones 2 AC Inlet CS-R10 & CS-R10-S: 2 (V-Lock Type) 2 (CSD-R7, V-Lock Type) DSP-R10: 2 (V-Lock Type) Number of Scenes 1000 1000 Recall Safe Yes Yes Focus Recall Yes Yes Yes (0s ~ 60s) Yes (Os ~ 60s) Fade Time Yes (V2.0 or later) Preview Yes SCENE MEMORY Selective Load / Save Yes (V1.5 or later) Yes Global Paste Yes (V1.2 or later) Yes Yes (V2.0 or later with timecode trigger) Event List Yes Overlay Yes (V1.2 or later) Yes Isolate Yes Yes Tactile Control Keys Yes Yes Gain Compensation Yes Yes Silk Yes (with RPio) Yes (with RPio) Digital Gain Yes (-96dB ~ +24dB) Yes (-96dB ~ +24dB) ATT No No 20Hz~2000Hz, -6/-12/-18/-24dB/oct 20Hz~2000Hz, -6/-12/-18/-24dB/oct HPF Selectable Selectable 4 Band Full PEQ (4 algorithms, RTA overlay 4 Band Full PEQ (4 algorithms, RTA overlay PEQ support) support) Legacy Comp / Comp260 / Gate / De-Esser Legacy Comp / Comp260 / Gate / De-Esser / Dynamics 1 INPUT CHANNEL / Expander / Ducking Expander / Ducking FUNCTIONS Legacy Comp / Comp260 / Gate / De-Esser Legacy Comp / Comp260 / Gate / De-Esser / Dynamics 2 / Expander / Ducking Expander / Ducking Input Delay Yes (Oms ~ 1000ms) Yes (Oms ~ 1000ms) Pan Center Nominal Center Nominal DCA Group 24 (Output DCA support) 24 (Output DCA support) DCA Rollout Yes Yes MUTE Group 12 12 Number of Inserts 4 slots on each 2 insert point 4 slots on each 2 insert point



Direct Out

Yes

Yes

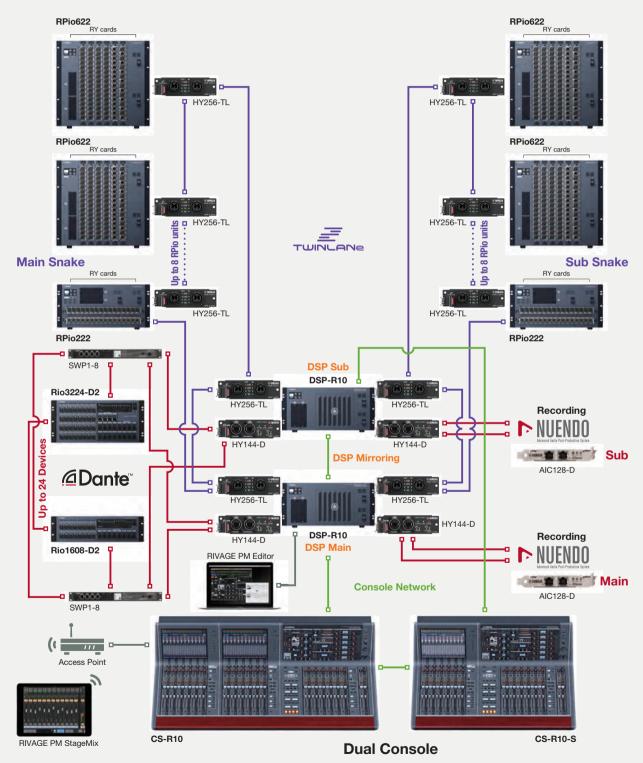
RIVAGE PM10 (EXCLUDING I/O RACK)

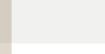
RIVAGE PM7 (EXCLUDING I/O RACK)

	PEQ	8 Band Full PEQ	8 Band Full PEQ
	GEQ	Plug-in	Plug-in
OUTPUT CHANNEL	Dynamics 1	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking	Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking
FUNCTIONS	Output Channel Delay	Yes (Oms ~ 1000ms)	Yes (Oms ~ 1000ms)
	MUTE Group	12	12
	Number of Inserts	4 slots on each 2 insert point	4 slots on each 2 insert point
	Number of Slots	384	384
PLUG-IN	Number of Effect Pro- grams	50	48 (VSS4HD and NonLin2 are not suppor- ted)
	Number of GEQ Racks	48	48
GEQ RACK	Mountable Device	31BandGEQ / Flex15GEQ / 8Band PEQ (RTA overlay support)	31BandGEQ / Flex15GEQ / 8Band PEQ (RTA overlay support)
TWINLANE	Number of I / O Channels	256 in / 256 out (with HY256-TL)	256 in / 256 out (with HY256-TL)
DANTE	Number of I / O Channels	144 in / 144 out (with HY144-D)	144 in / 144 out (with HY144-D)
RECORDING	USB Memory Recording	Yes	Yes
RECORDINO	DVS Recording	Yes (with HY144-D)	Yes (with HY144-D)
	5.1 Surround Panning	Yes (V2.0 or later)	Yes
BROADCAST FUNC-	Surround Monitor	Yes (V2.0 or later)	Yes
TIONS	Mix Minus	Yes (V2.0 or later)	Yes
	L-Mono / R-Mono / LR-Mono	No	No
	Solo Mode	Yes	Yes
MONITOR	Oscillator	Sine Wave 1ch / Sine Wave 2ch / Pink Noise / Burst Noise	Sine Wave 1ch / Sine Wave 2ch / Pink Noise / Burst Noise
	Port to Port	Yes (V1.5 or later)	Yes
	Dual Console	Yes (V2.0 or later)	Yes
	DSP Mirroring	Yes (V2.0 or later)	No
	Timecode Reader/ Display	Yes (V2.0 or later)	Yes
OTHER FUNCTIONS	Timecode Chase (Event List)	Yes (V2.0 or later)	Yes
	GPI/MIDI	Yes	Yes
	RTA	Yes	Yes
	Output Port Delay	Yes (Oms ~ 1000ms)	Yes (Oms ~ 1000ms)
	Cascade	Yes (Future Update)	No
	Display	CS-R10: 15 inch Touch Panel x 2 CS-R10-S: 15 inch Touch Panel x 1	15 inch Touch Panel x 2
	Centralogic Section	Yes CS-R10: 12 + 12 + 12 + 2 CS-R10-S: 12	Yes
	Faders Selected Channel	+ 12+ 2	12 + 12 + 12 + 2
	Encoders	All Parameters	All Parameters
	Channel Encoder	Yes	Yes
USER INTERFACE	Channel Name / Color Display	Yes	Yes
	Custom Fader Banks	Yes (6 x 2 on each bay)	Yes (6 x 2 on each bay)
	User Defined Keys	12 (x 4 banks)	12 (x 4 banks)
	User Defined Knobs	4 (x 4 banks)	4 (x 4 banks)
	Touch and Turn Knob	Yes	Yes
	Monitor Level Knob	Yes (2: A and B)	Yes (2: A and B)
	Wooden Arm Rest	Yes	Yes
	Editor	RIVAGE PM Editor	RIVAGE PM Editor
	StageMix	RIVAGE PM StageMix (V2.0 or later)	RIVAGE PM StageMix
SOFTWARE	MonitorMix	TBD	TBD
	Nuendo Live: Control integration	Yes (Future Update)	Yes (Future Update)
	Console File Converter	Yes	Yes

SYSTEM EXAMPLE 1: RIVAGE PM10

In this **RIVAGE PM10** system two TWINLANe cards are installed in the DSP-R10 DSP Engine to allow connection of two TWIN-LANe rings. Each ring can accommodate up to eight RPio622 and/or RPio222 I/O Rack units, providing ample capacity for large-scale applications. A Dante network can coexist with the TWINLANe network as required. The RIVAGE PM10 supports DSP Mirroring with two DSP-R10 DSP Engine units. If a problem occurs in the main DSP-R10 the second DSP-R10 can take over for continued operation.

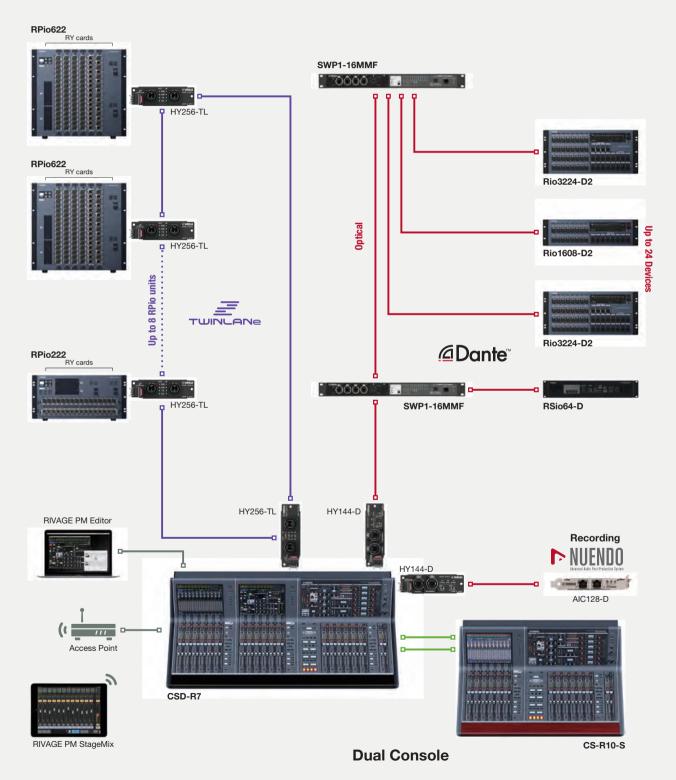






SYSTEM EXAMPLE 2: RIVAGE PM7

In a **RIVAGE PM7** system the CSD-R7 Digital Mixing Console can be fitted with a TWINLANe or Dante-capable HY card for use with RPio622/RPio222 or Rio3224-D2/Rio1608-D2 I/O racks, respectively. Up to eight RPio622/RPio222 units can be connected to the TWINLANe card, or up to 24 Dante devices, including Rio3224-D2/Rio1608-D2 units, can be connected via a Dante network. TWINLANe and Dante networks can coexist in a RIVAGE PM7 system. The CS-R10-S Control Surface originally designed for use with the RIVAGE PM10 can also be connected to a RIVAGE PM7 system to serve as a sidecar for fader expansion and/or multi-operator control.



CL SERIES



DIGITAL MIXING CONSOLE

CL5





A NETWORKED LIVE MIXING SYSTEM WITH UNPRECEDENTED SCALABILITY, SOUND QUALITY AND FLEXIBILITY

VERSATILE, CREATIVE CONSOLES FOR EXPRESSIVE ENGINEERING

- Naturally superior sound plus a comprehensive range of "coloring" options.
- Acclaimed Yamaha Centralogic concept at the core of a refined user interface.
- Separate console and I/O rack components communicate via Dante™ network audio protocol.
- AES67, Dante Device Lock and Dante Domain Manager support.
- Up to eight I/O rack units can be connected to each console. 5U size Rio3224-D(2) I/O unit provides 32 ins, 16 outs, and fourAES/ EBU outputs. 3U size Rio1608-D(2) I/O unit has 16 ins and 8 outs. Compact 2U size Tio1608-D provides 16 ins and 8 outs.
- Three versatile channel PEQ algorithms: Precise, Agressive and Smooth.
- I/O rack unit sharing allows multiple consoles to control the same I/O unit, with gain compensation.
- Virtual "Premium Rack" with VCM models of the renowned Neve Portico 5033 equalizer and Portico 5043 compressor/limiter, plus other VCM equalizers, single- and multi-band compressors, and studio quality effects.
- Virtual "Effect Rack" allows simultaneous use of up to 8 effects from a selection of 46 ambience effects and 8 insertion effects.
- Virtual "GEQ Rack" allows graphic EQ to be inserted into the output buses as required for room equalization and other functions.
- \bullet Seamlessly integrated remote control and offline editing via an Apple iPad^{\tiny (0)} or other computer.
- Shure ULX-D Wireless System control and monitoring.
- Network redundancy supported for maximum reliability.
- Every detail faders, knobs, switches, indicators, displays, etc. designed for optimum operating feel.
- 2-track mp3 recording to USB memory.
- Tight integration with Nuendo Live (included) for serious live multitrack recording.
- Multitrack recordings can be used for "virtual sound checks" when the performers aren't available.
- Three Mini-YGDAI card slots provide easy I/O expansion as well as extra processing capabilities.
- Lake® processing can be added via expansion slots.
- Other features: editable channel names and colors, user defined keys and knobs, 300 scene memories, input and output delays, ample EQ and dynamics processing, 16 DCA groups, 8 mute groups, 5-in/5-out GPI interface, multiple user key sets, on-screen help, and more.
- Surround mixing & monitoring

CL5

THREE-SECTION FADER LAYOUT FOR EFFICIENT HANDS-ON CONTROL. THE CL5 IS THE IDEAL CHOICE FOR A DIVERSE SPECTRUM OF LIVE SOUND SYSTEMS

- Input channels: 72 mono, 8 stereo
- Fader configuration: 16-fader left section, 8-fader Centralogic section, 8-fader right section, 2-fader master section
- Stainless steel stay for iPad support
- Built-in meter bridge
- Busses: 24 MIX BUS, 8 MATRIX BUS (input to MATRIX supported)

CL3

AN IDEAL BLEND OF COMPACT SIZE AND CHANNEL CAPACITY FOR A VARIETY OF LIVE AND INSTALLED APPLICATIONS

- Input channels: 64 mono, 8 stereo
- Fader configuration: 16-fader left section, 8-fader Centralogic section, 2-fader master section
- Stainless steel stay for iPad support
- Meter bridge optional
- Busses: 24 MIX BUS, 8 MATRIX BUS (input to MATRIX supported)

CL1

DUAL 8-FADER SECTIONS IN A SPACE-SAVING CONSOLE THAT CAN BE USED ALONE OR CASCADED TO ANOTHER CL CONSOLE FOR INPUT EXPANSION

- Input channels: 48 mono, 8 stereo
- Fader configuration: 8-fader left section, 8-fader Centralogic section, 2-fader master section
- Meter bridge optional
- Busses: 24 MIX BUS, 8 MATRIX BUS (input to MATRIX supported)

GENERAL SPECIFICATIONS

Sampling frequency rate	Internal: 44.1kHz, 48kHz			
	External: 44.1kHz (+4.1667%, +0.1%, -0.1%, -4.0%) ±200ppm			
	48kHz (+4.1667%, +0.1%, -0.1%, -4.0%) ±200ppm			
Signal Delay	Less than 2.5 ms OMNI IN to OMNI OUT (@fs=48kHz)			
Total harmonic distortion*1 OMNI IN to OMNI OUT Input Gain=Min.	Less than 0.05% 20Hz to 20kHz @+4dBu into 600Ω			
Frequency response CH INPUT to OMNI OUT	+0.5, -1.5dB 20Hz to 20kHz, refer to +4dBu output @1kHz, OMNI IN to OMNI OUT			
Dynamic range (maximum level to noise level)	112dB typ., DA Converter, 108dB typ., OMNI IN to OMNI OUT, Input Gain = Min.			
Hum & noise level*2 (20Hz to 20kHz), Rs=150Ω	-128dBu Equivalent input noise, Input Gain=Max., -84dBu Residual output noise, ST master off			
Crosstalk (@1kHz) Input Gain=Min.	-100dB*3, Adjacent OMNI IN/OMNI OUT channels			
Phantom Power	+48V			
Power requirements	AC110V-240V, 50/60Hz			
Power consumption	CL5/CL3/CL1: 170W, Internal Power Supply CL5/CL3/CL1: 200W, Simultaneous use of Internal PSU and External PW800W			

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.

*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.

*3 Crosstalk is measured with a 30 dB/octave filter @22kHz.

** Excluded MBCL optional meter bridge.

ANALOG INPUT SPECIFICATIONS							
		Actual			Input level		
Input terminal	GAIN	source impe- dance	For use with nominal	Sensitivity	Nominal	Max. before clip	Connector
OMNLIN 1-8	+66dB	50-600Ω Mics	-82dBu	-62dBu	-42dBu	XLR3-31	
	-6dB	7.3812	7.5kΩ & 600Ω Lines	-10dBu	+10dBu	+30dBu	type*
TALKBACK	+040b	Mics	-70dBu	-60dBu	-40dBu	XLR3-31	
IALKBACK	+20dB	10kΩ	& 600Ω Lines	-26dBu	-16dBu	+4dBu	type*

DIGITAL I/O SPECIFICATIONS							
Terminal	Format	Data length	Level	Audio	Connector		
Primary/ Secondary	Dante	24bit or 32bit	1000Base-T	64ch Input/64ch Output @48kHz	etherCON Cat5e		

DIGITAL OUTPUT SPECIFICATIONS						
Terminal		Format	Data length	Level	Connector	
DIGITAL OUT	AES/EBU	AES/EBU Professional Use	24bit	RS422	XLR3-32 type*	

ANALOG OUTPUT SPECIFICATIONS							
Output	Actual	For use with		Output t	erminals		
terminal	source impedance	nominal	gain sw	Nominal	Max. before clip	Connector	
OMNI OUT 1-8 75	75Ω 600Ω	6000 Lines	+24dB	+4dBu	+24dBu	XLR3-32 type*	
		OUUL2 Lines	+18dB	-2dBu	+18dBu		
PHONES 1.	15Ω	8Ω Phones	-	75mW	150mW	ST Phone	
		40Ω Phones	-	65mW	150mW	Jack**	

I/O SLOT (1-3) SPECIFICATIONS

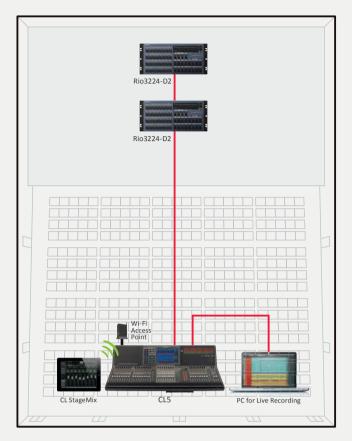
Each I/O Slot accepts a Mini-YGDAI card. Only Slot1 has a serial interface.

CONTROL I/O SPECIFICATIONS						
Terminal		Format	Level			
MIDI	IN	MIDI	-			
MIDI	OUT	MIDI	-			
WORD CLOCK	IN	-	TTL/75Ω termi- nated			
	OUT	-	TTL/75Ω			
GPI (5IN/5OUT)		-	-			
NETWORK		IEEE802.3	10BASE- T/100Base-TX/			
LAMP (CL5=3, CL3	3=2, CL1=1)	-	0V - 12V			
USB HOST		USB 2.0	-			
EXT DC IN		-	-			
Meter Bridge (CL3	/CL1 only)	-	-			

*1. Input pins: Internal TTL-level pull-up resistors provided (47k Ω). Output pins: Opendrain output (Vmax = 12V, max. sink current/pin = 75mA) Power pins: Output voltage Vp = 5V, max. output current Imax = 300mA *2. Pin 4 = +12V, Pin 3 = GND, lamp rating 5W. Software voltage control.

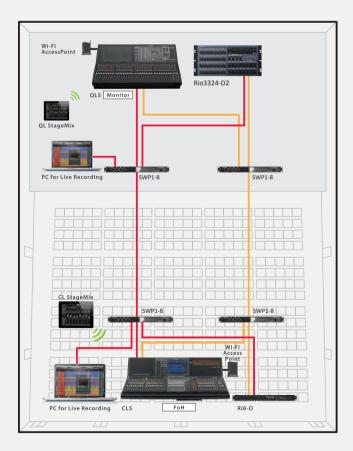


SYSTEM EXAMPLES: LIVE SOUND



A SIMPLE DAISY-CHAIN SYSTEM

Internal port switches allow the CL series to be easily set up for daisy-chain or star network congurations. In this example the Console at FOH position is directly connected to the I/O rack at the side of the stage. The network is self-configured. Of course the CL StageMix iPad app can be used even in simple systems like this one, and Dante Virtual Soundcard can be used to enable multitrack recording to a DAW such as Steinberg's Nuendo Live.



QL CONSOLE FOR MONITOR MIX AND I/O IN A RELIABLE STAR NETWORK

In this compact but capable live sound system a CL series console serves front-of-house while a stage side QL console doubles as monitor mixer and I/O device thanks to its Port to Port capability. The Gain Compensation function means that head amp gain can be safely controlled from either console without interference. For maximum system reliability a star network configuration with network switches is used for redundancy, so that a problem in one part of the network will not interrupt the overall signal flow. Live recording to multiple computers is also possible.



|QL SERIES

DIGITAL MIXING CONSOLE























EXPANDABLE ALL-IN-ONE DIGITAL MIXING CONSOLE THAT INHERITS CORE FEATURES AND PERFORMANCE DIRECTLY FROM THE CL SERIES

- Naturally superior sound plus powerful built-in processing for broad creative control.
- Built-in Dugan automixer provides optimum channel balance while allowing the operator to concentrate fully on optimizing the overall sound.
- A large touch-panel display, selected channel controls, and a "Touch and Turn" knob make up an intuitive, efficient control interface.
- Extensive built-in input and output capacity that can handle a variety of applications without the need for stage boxes or other external equipment.
- Built-in Dante networking allows for flexible system expansion.
- AES67, Dante Device Lock and Dante Domain Manager support.
- Up to 24 R series I/O rack units can be connected to each console.
- An innovative "Port to Port" feature allows the console to function as a remote I/O device for any other QL or CL console.
- "Gain Compensation" allows multiple consoles to share and control the same I/O unit.
- Three versatile channel PEQ algorithms: Precise, Agressive and Smooth.
- Virtual "Premium Rack" with VCM models of the renowned Neve Portico 5033 equalizer and Portico 5043 compressor/limiter, plus other VCM equalizers, single- and multi-band compressors, and studio quality effects.
- Virtual "Effect Rack" allows simultaneous use of up to 8 effects from a selection of 46 ambience effects and 8 insertion effects.
- Virtual "GEQ Rack" allows graphic EQ to be inserted into the output buses as required for room equalization and other functions.
 - Seamlessly integrated remote control and offline editing via an Apple iPad® or other computer.
 - Shure ULX-D Wireless System control and monitoring.
 - CL series compatibility: data exchangeable between QL and CL consoles.
 - Direct 2-track recording to standard USB flash drives, or serious multitrack recording to a DAW via Dante.
- Multitrack recordings can be used for "virtual sound checks" when the performers aren't available.
- Dual Mini-YGDAI card slots provide easy I/O expansion as well as extra processing capabilities.
- Other features: comprehensive Fader Bank section with recallable four custom banks, editable channel names and colors, user defined keys and on-screen user defined knobs, 300 scene memories, input and output delays, ample EQ and dynamics processing, 16 DCA groups, 8 mute groups, 5-in/5-out GPI interface, multiple user key sets, on-screen help, and more.
- Surround mixing & monitoring

QL5

- 32 + 2 fader configuration adapts to a wide range of channel layouts. The QL5 is a compact console with large-scale capabilities
- Mix channels: 64 mono, 8 stereo
- Busses: 16 mix, 8 matrix (Input to Matrix supported)
- Local I/O: 32 in, 16 out
- Fader configuration: 32 + 2 (Master)
- Stainless steel iPad support stays

QL1

- 16 + 2 fader configuration in a compact, rack mountable unit
- Mix channels: 32 mono, 8 stereo
- Busses: 16 mix, 8 matrix (Input to Matrix supported)
- Local I/O: 16 in, 8 out
- Fader configuration: 16 + 2 (Master)
- Rack mountable with optional RKH1 Rack Mount Kit

SPECIFICATIONS

GENERAL SPECIFICATIONS

Internal: External:	44.1kHz, 48kHz	
External:		
	44.1kHz (+4.1667%, +0.1%, -0.1%, -4.0%)	±200ppm
	48kHz (+4.1667%, +0.1%, -0.1%, -4.0%)	±200ppm
Less than 2	.5 ms OMNI IN to OMNI OUT (@fs=48kHz)	
Less than O	.05% 20Hz to 20kHz @+4dBu into 600Ω	
		Ζ,
- 100dB*3,	Adjacent INPUT/OMNI OUT channels	
+48V		
AC100V-24	40V, 50/60Hz	
	100mm mo +10dB to - Less than 0 +0.5, -1.5d INPUT to C 112dB typ. 108dB typ. -128dBu E -88dBu Re -100dB ^{*3} , +48V AC100V-24 QL5: 200W QL1: 135W QL5: 828 x QL1: 468 x QL5: 21.8k QL1: 14.7k	Less than 2.5 ms OMNI IN to OMNI OUT (@fs=48kHz) 100mm motorized, Resolution=1024steps +10dB to -138dB, -∞dB all faders Less than 0.05% 20Hz to 20kHz @+4dBu into 600Ω +0.5, -1.5dB 20Hz to 20kHz, refer to +4dBu output @1kHz INPUT to OMNI OUT 112dB typ., DA Converter, 108dB typ., INPUT to OMNI OUT, Input Gain = Min.ww -128dBu Equivalent input noise, Input Gain=Max., -88dBu Residual output noise, ST master off -100dB ^{*3} , Adjacent INPUT/OMNI OUT channels

* 1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.
 * 2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.
 * 3 Crosstalk is measured with a 30 dB/octave filter @22kHz.

ANALOG	ANALOG INPUT SPECIFICATIONS							
		Actual						
Input terminal	GAIN	source impe- dance	For use with nominal	Sensiti- vity	Nominal	Max. before clip	Connector	
INPUT 1-32	+66dB		50-600Ω	-82dBu	-62dBu	-42dBu	NI DO 01	
(QL5) INPUT 1-16 (QL1)	-6dB	7.5kΩ	Mics & 600Ω Lines	-10dBu	+10dBu	+30dBu	XLR3-31 type*	

ANALOG OUTPUT SPECIFICATIONS								
.	Actual			Output	terminals			
Output terminal	source impedance	For use with nominal GAIN SW		Nominal	Max. before clip	Connector		
OMNI OUT		+24dB	+4dBu	vt+24dBu				
1-16 (QL5) OMNI OUT 1-8 (QL1)	75Ω	600Ω Lines	+18dB	-2dBu	+18dBu	XLR3-32 type*		
PHONES	15Ω	8Ω Phones	-	75mW	150mW			
		40Ω Phones	-	65mW	150mW	ST Phone Jack**		

DIGITAL I/O SPECIFICATIONS						
Terminal	Format	Data length	Level	Audio	Connector	
Primary/Secondary	Dante	24bit or 32bit	1000Ba- se-T	64ch Input/64ch Output @48kHz*1	etherCON Cat5e	

*1 QL1: 32ch Input/32ch Output@48kHz

DIGITAL OUTPUT SPECIFICATIONS							
Terminal		Format Data length		Level	Connector		
DIGITAL OUT	AES/ EBU	AES/EBU Professional Use	24bit	RS422	XLR3-32 type*		

I/O SLOT (1-2) SPECIFICATIONS

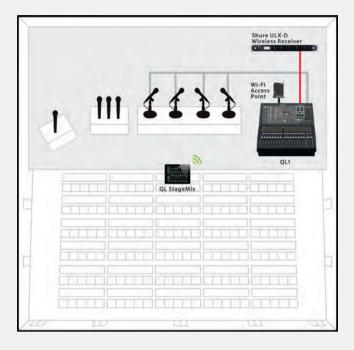
A Mini-YGDAI card can be inserted into slots 1-2. Only slot 1 supports serial interfaces.

CONTROL I/O SPECIFICATIONS					
Terminal		Format	Level	Connector	
MIDI	IN	MIDI	-	DIN Connector 5P	
	OUT	MIDI	-	DIN Connector 5P	
WORD CLOCK	IN	-	TTL/75Ω terminated	BNC Connector	
	OUT	-	TTL/75Ω	BNC Connector	
GPI (5IN/5OUT) -		-	-	D Sub Connector 15P (Female) * 1	
NETWORK		IEEE802.3	10BASE-T/100Base- TX	RJ-45	
LAMP (QL5=2, QL1=1)		-	0V - 12V	XLR-4-31 type*2	
USB HOST		USB 2.0	-	USB A Connector (Female)	
** *		/ I II	((=) =) = = = = =		

* 1. Input pin: TTL level, w/ internal pull-up (47kΩ) Output pin: Open drain output (Vmax=12V, maximum sink current/pin=-75mA) Power supply pin: Output voltage Vp=5V, Max. output current =300mA
*2. 4 pin=+12V, 3 pin=GND, Lamp nominal power: 5W, Brightness (voltage) can be adjusted from the software.

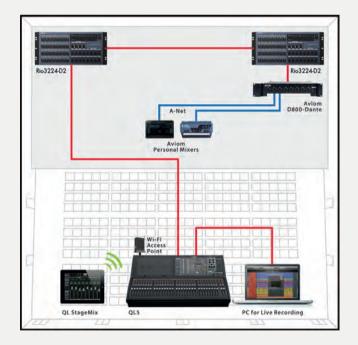


SYSTEM EXAMPLES



A COMPACT SYSTEM THAT AUTOMATICALLY MIXES UP TO 16 SPEECH MICS

At conferences or speech events where space for equipment is limited, a compact all-in-one QL console can be a huge advantage. The built-in Dan Dugan Automixer can automatically provide an optimum mix of up to 16 speech microphones. Events can be recorded directly to, and pre-recorded BGM can be played back from a USB flash drive. The StageMix application can provide remote control capability for even greater efficiency and convenience.



A SIMPLE LIVE SYSTEM WITH DAISY-CHAINED I/O RACKS

This is an example of a simple live system that makes use of Dante networking. Stage side R-series I/O rack units are connected to the front-of -house QL console via network cables. An Aviom personal monitor system can also be connected to the Dante network via an Aviom D800-Dante distributor. This setup even allows multi-track recording to a computer via the Dante network.

TF SERIES

(*) YAMAHA



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.



A HIGH-PERFORMANCE STAGEBOX SOLUTION THAT'S SIMPLE TO SET UP.

The natural, musical sound that was a key element of the TF Series design policy is carried on without compromise in the Tio1608-D I/O Rack. Mechanical construction, circuit board layout, power supply, grounding, and parts selection have all been executed with meticulous attention to detail and quality, and exhaustive performance and listening tests were carried out at each stage of development. For networking the same Dante protocol implemented in higher end Yamaha digital consoles is used for precise synchronization, low latency, low jitter, and high sample accuracy. In addition to superior performance, a Tio1608-D stage box system can be set up in just three easy steps.



A VERSATILE LIVE RECORDING AND PLAYBACK SOLUTION FOR ANY APPLICATION.

Live recording capability is becoming increasingly important in live sound systems. From simple 2-track recording and playback using a USB storage device to all-out multitrack recording with a computer based DAW (Digital Audio Workstation), the TF series is ready to roll. TF consoles come supplied with Steinberg's Nuendo Live Multitrack live recording software, providing an easy way to simultaneously record up to 34 tracks to a computer connected to the console via USB 2.0. MP3 and WAV files can be played back from USB storage devices, and audio from an iPhone or iPad can be layed back via a direct digital connection. When playing back from a DAW, analog input or DAW input can be individually selected for each channel so that pre-recorded material can be mixed with live input for virtual sound checks or rehearsals. Of course BGM and sound effects can be played back too.



OFFLINE EDITING PLUS SHOWTIME CONTROL

The TF Editor application for Windows and Mac computers provides a complete interface for offline editing and setup of TF consoles, with scene and preset management capabilities plus convenient keyboard entry of channel names. In addition to being able to set up the console offline at any convenient location and time, the TF Editor can be used online at the same time as the TF StageMix and MonitorMix applications. A Windows 10/8 PC with a multi-touch screen can use the same gestures as on the console itself. And if using Wi-Fi, a PC can function as a convenient remote-mixing device. Up to three devices running TF Editor or StageMix can be connected at the same time.



TF STAGEMIX™ FOR WIRELESS MIXING

TF StageMix is an iPad application that provides wireless control of TF series consoles, allowing remote mixing from audience seating, in front of floor monitors, or any other listening position. It can also be used at the console as an extension of the console's own interface. The TF StageMix interface is designed for similar operation and flow to the console display, making it easier than ever to refine the mix from any location.





PERSONAL MONITORING WITH MONITORMIX

The MonitorMix application for the TF Series allows individual wireless AUX mixing from up to 10 iPhone, iPad or iPod touch devices simultaneously. Each performer can have convenient control over the AUX buses assigned to them, without having to deal with complex settings or parameters. They can also create personal Group settings for even easier adjustment: all levels on just one fader, for example. Since up to three devices running TF Editor or StageMix and up to 10 devices running MonitorMix can be connected at the same time, even large bands can have the personal control they need, reducing demands on the sound engineer.



* TF STAGEMIX AND MONITORMIX ARE AVAILABLE FREE OF CHARGE THROUGH THE APP STORE.



GENERAL SPECIFICATIONS

MODEL		TF5	TF3	TF1	TF-RACK	
FADER CONFIGURATION		32 + 1 (Master)	24 + 1 (Master)	16 + 1 (Master)	n/a	
MIXING CAPACITY	Input Channels	48 (40 mono + 2 stereo + 2 return)	48 (40 mono + 2 stereo + 2 return)	40 (32 mono + 2 stereo + 2 return)	40 (32 mono + 2 stereo + 2 return)	
	Aux Buses	20 (8 mono + 6 stereo)				
	Stereo Buses	1	1	1	1	
	Sub Buses	1	1	1	1	
	Matrix Buses	4	4	4	4	
INPUT CHANNEL FUNCTIONS		8 DCA Groups				
I/O	Inputs	32 mic/line (XLR/TRS combo) + 2 stereo line (RCA pin)	24 mic/line (XLR/TRS combo) + 2 stereo line (RCA pin)	16 mic/line (XLR/TRS combo) + 2 stereo line (RCA pin)	16 mic/line (XLR/TRS combo) + 1 stereo line (RCA pin)	
	Outputs	16 (XLR)			16 (8 XLR + 8 TRS phone)	
	Expansion slots	1 (for NY64-D)				
ON-BOARD PROCESSORS	DSP	8 Effects + 10 GEQ				
RECORDING / PLAY BACK	PC/Mac (USB2.0)	Recording 34 tracks, Playback 34 tracks				
	USB Storage Device	Recording 2 tracks (USB hard drive/ SSD)*, Playback 2 tracks (USB hard drive/ SSD/ thumb drive)				
GENERAL SPECIFICATIONS		TF5	TF3	TF1	TF-RACK	
SAMPLING FREQUENCY RATE	Internal	48 kHz				
SIGNAL DELAY		Less than 2.6 ms, INPUT to OM	NI OUT, Fs=48 kHz			
FADER		100 mm motorized, Resolution = 10-bit, +10 dB to - 138 dB, -∞ dB all faders n/a			n/a	
TOTAL HARMONIC DISTORTION		Less than 0.05% 20 Hz-20 kHz @+4 dBu into 600 Ω , INPUT to OMNI OUT, Input Gain=Min. (Measured with a -18 dB/oc filter@80 kHz)			easured with a –18 dB/octave	
FREQUENCY RESPONSE		+0.5, -1.5 dB 20 Hz-20 kHz,	refer to +4 dBu output @1kHz, IN	PUT to OMNI OUT		
DYNAMIC RANGE		108 dB typ., IN			110 dB typ., DA Converter, 108 dB typ., INPUT to OMNI OUT, Input Gain=Min.	
HUM & NOISE LEVEL	Equivalent input noise	- 128 dBu typ., Input Gain=Max. (Measured with an A-Weight filter)				
	Residual output noise	-85 dBu, ST master off (Measured with an A-Weight filter)				
CROSSTALK		–100 dB (Measured with a –30	0 dB/octave filter@22 kHz), adja	cent INPUT/OMNI OUT channels	, Input Gain=Min.	
POWER REQUIREMENTS		100-240 V 50/60 Hz				
POWER CONSUMPTION		120 W	110 W	100 W	85 W	
DIMENSIONS	W x H x D	866x255x599 mm	716x225x599 mm	510x225x599 mm	480x132x409 mm	
NET WEIGHT		20.0 kg (44.1lb)	17.0 kg (37.5lb)	13.5 kg (29.8lb)	9.2 kg (20.3lb)	
ACCESSORIES		Quick Guide, Power Cord, Nue	ndo Live			
OPTIONS		Rack-mount Kit RK5014, Audio Interface Card (NY-64D), Foot Switch (FC5) Audio Interface Card (NY-64D), Foot Switch (FC5) 64D), Foot Switch (FC5) 64D), Foot Switch (FC5)			Audio Interface Card (NY- 64D), Foot Switch (FC5)	
OTHERS		Operating temperature ranae: ()-40 °C, Storage temperature rai	nge: -20-60 °C		

NY64-D NY CARD

OPTIONAL ACCESSORIES

TF SERIES DIGITAL MIXING CONSOLES

- TouchFlow Operation[™] smooth, natural control flow
- Intuitive user interface optimized for touch panel operation
- Touch & turn knob offers extra control precision
- 1-knob COMP™ & 1-knob EQ™: One knob to dial in the ideal sound
- GainFinder[™] supports precision gain setup
- QuickPro Preset[™] provides instant access to pro sound setups
- DCA roll-out enhances group control
- Comprehensive fader bank section
- TF Editor offline editing plus showtime



* Tio1608-D I/O RACK

- TF StageMix[™] for wireless mixing control
- Personal monitoring with MonitorMix
- Recallable D-PRE[™] microphone preamplifiers
- Powerful processors and effects
- NY64-D expansion slot (64 in/ 64 out) for connection to a Dante network
- Tio1608-D high-performance stagebox solution that's simple to set up
- 8-channel Dan Dugan automixer



* RK5014 RACK MOUNT KIT

NUENDO LIVE











A PROFESSIONAL MULTI-TRACK LIVE RECORDING SOLUTION, PERFECTLY TAILORED TO CAPTURE LIVE PERFORMANCES, FROM CLUB SHOW UP TO THE LARGEST CONCERTS AND FESTIVALS

- ADVANCED LIVE RECORDING SYSTEM featuring a straightforward single-window operation, a record panel, a pre-record buffer and more
- SEAMLESS INTEGRATION with Yamaha CL-series consoles for controlling essential Nuendo Live functions straight from the live console
- STATE-OF-THE-ART RECORDING QUALITY BASED ON STEINBERG'S AWARD-WINNING AUDIO ENGINE with up to 192 kHz lets your production stand apart from the competition
- NUENDO LIVE RECORD PANEL shows all essential session information at once- creating confidence in demanding live situations
- ADVANCED SESSION MANAGEMENT with auto-naming of recorded files, multiple folder creation, easy-to-use marker track, auto-save and notepad
- **ZERO SETUP TIME** thanks to automatic track creation function that make Nuendo Live record-ready in less than a minute
- 24+ HOURS RECORDING TIME thanks to EBU-compliant RIFF 64 broadcast wave format in standard recording mode
- VIRTUAL SOUND CHECK allows for easy use of previous recordings for sound check, including marker recall and 1:1 output
- **DELIVER WITH CONFIDENCE** due to standardized rendering formats and Nuendo
- EDITING ON THE ROAD Nuendo Live includes essential editing functions, making it possible to create a rough edit of the recordings right after the show

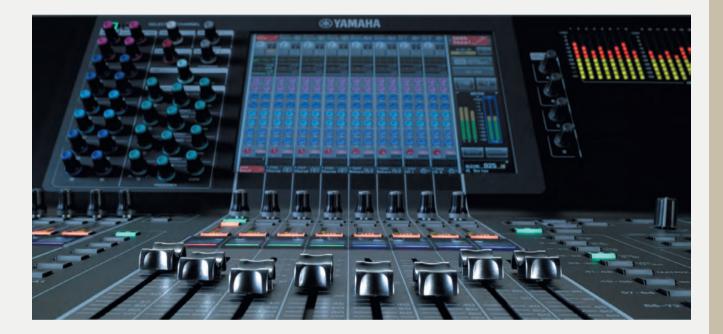


SUPERIOR REMOTE CONTROL FROM CL AND QL CONSOLES

Nuendo Live seamlessly integrates with Yamaha's digital mixing consoles, the CL/QL series. Once connected, you can control all vital functions of Nuendo Live directly from the touch-sensitive surface of the console. Thanks to the Extension plug-in, a software adapter that facilitates the communication between the console and Nuendo Live, CL/QL features, such as channel name copy, marker set and transport control, are directly reflected within Nuendo Live's user interface. Record, play, stop – everything you need is just a touch away. Plus the CL/QL console also displays important information provided by Nuendo Live, such as current and remaining record time, making this system solution the perfect choice to master even the most demanding live recording tasks.

1:1 CONNECTION

The close connection between Nuendo Live and Yamaha's live recording desks can also be seen by means of the channel management. All channels of the CL console are represented 1:1 in Nuendo Live, including the channel order, names and even the colors are perfectly matched between software and hardware – integration at its best.



SYSTEM REQUIREMENTS

MAC	PC		
Mac OS X version 10.7 / 10.8 / 10.9 / 10.10 / 10.11	Windows 7 / Windows 8.x / Windows 10		
Intel Dual Core CPU	Intel or AMD Dual Core CPU		
OS compatible audio hardware	OS compatible audio hardware		
2GB RAM	2GB RAM		
8GB of free HD space	8GB of free HD space		
OS	OS		
Internet connection required for activation	on, account setup and personal / product registration.		

Additional downloads may be required for the installation.



STAGEMIX & MONITORMIX







MIXER WINDOW



PEQ



SENDS ON FADERS



GEQ

REMOTE CONTROL APPLICATION THROUGH IPAD

Stagemix provides remote control of RIVAGE, CL, QL, TF, M7CL, LS9 via a simple, intuitive graphical interface from anywhere within wireless range. The software has been specifically designed to allow engineers to adjust monitor mixes from the performers' positions on stage, directly controlling mix parameters via the iPad rather than having to rely on verbal directions to a second engineer. The result is better mixes in less time: a huge advantage during high-pressure pre-show setup.

PERSONAL MONITORING WITH MONITORMIX

The MonitorMix application for the CL/QL/TF Series allows individual wireless monitor mixing from up to 10 devices simultaneously. Each performer can have convenient control over the MIX/AUX buses assigned to them, without having to deal with complex settings or parameters. They can also create personal Group settings for even easier adjustment: all instrument levels on just one fader, for example.

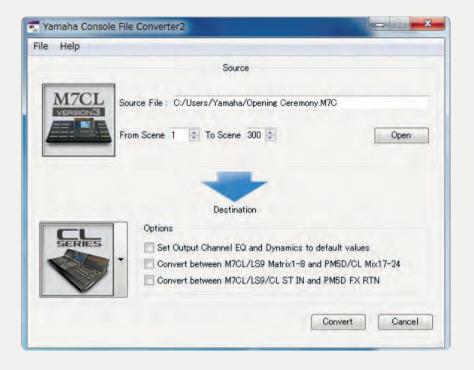
* STAGEMIX AND MONITORMIX ARE AVAILABLE FREE OF CHARGE THROUGH THE APP STORE



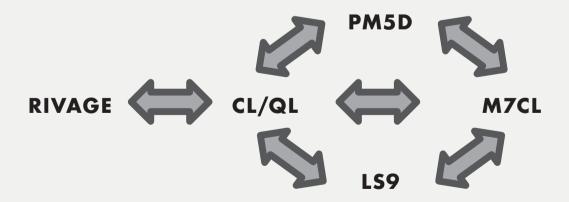




CONSOLE FILE CONVERTER



The **CONSOLE FILE CONVERTER** is an application that allows data to be shared between a number of Yamaha digital mixing consoles. You can share data between **RIVAGE SERIES, CL/QL SERIES**, **PM5D**, **M7CL**, and **LS9** consoles, so data from one show doesn't have to be completely reprogrammed from scratch for the next, even if different consoles are used.

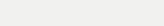


* FILE CONVERTER CAN BE DOWNLOADED FREE OF CHARGE FROM: WWW.YAMAHAPROAUDIO.COM

DM1000VCM



DIGITAL PRODUCTION CONSOLE





19-INCH DIGITAL PRODUCTION CONSOLE FOR PROFESSIONALS IN THE STUDIO OR ON THE ROAD.

- Precise 24-bit/96-kHz audio and high-performance head amps.
- Generous mixing capacity with up to 48 simultaneous inputs and 18 mix buses (8 group buses, 8 auxiliary buses, and the main stereo bus) in a compact rack-mount size console.
- Powerful channel functions with flexible control and digital patching capability.
- Four advanced multi-effect processors include surround effects.
- Scene memory and auto-mix functions for efficient workflow.
- Versatile pairing and grouping functions enhance mixing efficiency.
- Comprehensive interface with 17 touch-sensitive 100-mm motor faders.
- A generous selection of control interfaces: MIDI, USB, REMOTE, SMPTE, and word clock.
- Two mini-YGDAI expansion slots for easy I/O expansion in a variety of formats.
- Compatible with both Windows or Macintosh versions of Studio Manager version2 Software, allowing your PC and Console to work together seamlessly.
- Easy integration with computer-based DAWs (Digital Audio Workstations) or digital recorders to create an advanced digital production environment.
- A comprehensive range of features for surround production, including an enhanced surround monitoring environment with bass management.
- A new dimension of production power with the addition of Yamaha VCM effects and processing.
- Included in the THX pm3™ Studio Certification Program Approved Equipment List.
- DM1000 and accessories are available on a built to order schedule





DM1000VCM

DIGITAL PRODUCTION CONSOLE

	DM1000VCM
MIXING CHANNELS	48
MONO MICROPHONE INPUTS	16
LINE INPUTS	4 OMNI
ANALOGUE OUTPUTS	12 OMNI
MONITORING OUTPUTS	Through OMNI outputs
FADERS	17
MIX BUSES	8 bus + 8 aux + St
EFFECTS	stereo multi effects x 4
DELAYS	all channels + all mixbuses
GRAPHIC EQUALISERS	-
MY EXPANSION SLOTS	2
DIGITAL I/O	2
CASCADE PORT	-
SAMPLING FREQUENCY	44.1 - 48 - 88.2 - 96 kHz
SCENE MEMORY	99
DYNAMIC AUTOMATION	yes
TIMECODE INPUT	SMPTE (XLR)
SERIAL COMPUTER CONNECTION	yes, ESAMII Video Editor Support
CONFIGURATION MEMORY	StudioManager + Smart Media card
DIMENSIONS (W/O OPTIONS)	436 x 200 x 585 mm (19" 13U) (W X H X D)
WEIGHT (W X H X D)	9 kg
OPTIONS	meter bridge, side panels, rack mount kit

* MB1000 METER BRIDGE * SP1000 WOODEN SIDE PANELS * RK1 RACK MOUNT KIT

01V96i



CAPTURE THE PERFECT MOMENT

The **01V96i** represents the next step in the evolution of an industry standard, building on the proven configuration of its predecessors to create a compact digital mixer that meets the needs of an expanding user base with 16 in/16 out USB 2.0 audio streaming at an impressive 96kHz, the full suite of Yamaha's acclaimed Virtual Circuitry Modeling DSP effects and newly improved studio-quality head amps.





CUBASE AI









- 24 Bit/96 kHz I/O
- Integrated USB 2.0 interface streams 16x16 channels of audio
- Built-in VCM effects
- 40 inputs, 20 Buses at 96 kHz
- 16 analogue inputs
- Mini-YGDAI slot for I/O expansion
- Built-in optical adat interface
- 17 motorised faders (100 mm)
- Surround support
- Cascade link
- Studio Manager and Software Editor
- Controller function for DAW software





01V96i

DIGITAL MIXING CONSOLE

	01V96i
MIXING CHANNELS	32 + 4 St
MONO MICROPHONE INPUTS	12 with insert
LINE INPUTS	2 stereo
ANALOGUE OUTPUTS	4 OMNI + St
MONITORING OUTPUTS	Monitor output
FADERS	17
MIX BUSES	8 bus + 8 aux + St
EFFECTS	stereo multi effects x 4
DELAYS	all channels + all mixbuses
GRAPHIC EQUALISERS	-
MY EXPANSION SLOTS	1
DIGITAL I/O	1 x SP-DIF + 1 x Adat
CASCADE PORT	 - (Cascade possible through slots)
SAMPLING FREQUENCY	44.1 - 48 - 88.2 - 96 kHz
SCENE MEMORY	99
DYNAMIC AUTOMATION	-
TIMECODE INPUT	-
SERIAL COMPUTER CONNECTION	yes + USB 16ch Audio
CONFIGURATION MEMORY	StudioManager
DIMENSIONS (W/O OPTIONS)	436 x 150 x 540 mm (19" 13U) (W x H x D)
WEIGHT	7.5 kg
OPTIONS	rack mount kit

MY8-LAKE





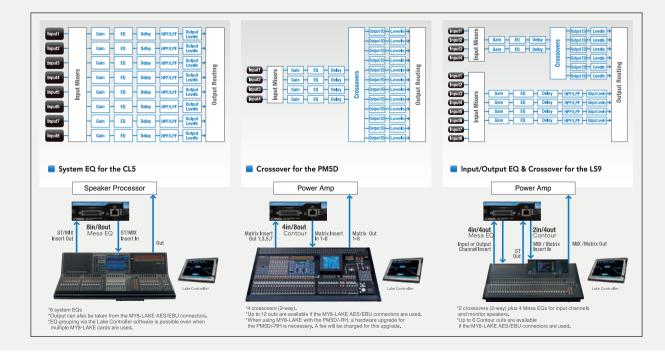


Established Lake[®] Processing for Yamaha digital mixing consoles, signal processors, and power amplifiers.

- 8-in/8-out Mesa mode (system EQ), 4-in/12-out Contour mode (crossover), or a combination of both for versatile processing.
- 96 kHz internal processing, supporting 44.1 kHz, 48 kHz, and 88.2 kHz sample rates.
- Compatible with Smaart sound system measurement software for efficient, effective speaker tuning.
- Flexible system setup via Yamaha digital mixer insert points and MY8-LAKE card AES/EBU connectors.
- Lake Controller software application allows comprehensive overall management of all Lake devices in the system.
- Over 1.000 speaker presets included for fast, accurate tuning with a wide range of systems.
- Rsio64-D supports up to 4 units to be combined in 2U rack space connecting to a Dante network.

MY8-LAKE

SAMPLING FREQUENCY	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
INTERNAL OPERATING FREQUENCY	96 kHz
SUPPORTED MODES	Mesa 8 in / 8 out system EQ + Contour 4 in / 12 out crossover
CONNECTIONS	D-sub 25 pin 9AES/EBU 8 in / 8 out) + 100Mb Ethernet RJ45 (for Lake Controller)
COMPATIBLE HOSTS	CL5/CL3/CL1, QL5/QL1, PM5D*/ -RH*, DSP5D, M7CL, LS9, DM2000, 02R96, DM1000, 01V96i, DME64N/24N, TXn, DIO8(PM 1D). *requires hardware upgrade





DUGAN-MY16

Dan Dugan Sound Design



FULLY AUTOMATIC MULTI-MIC MIXING THAT DELIVERS SMOOTH, PROFESSIONAL SOUND.

- Automatic detection of active mics with automatic control of individual channel and overall gain.
- No speech cutoff due to late fader activation, for smooth, uninterrupted sound.
- Effective background noise and feedback suppression without the need for noise-gate type threshold level settings.
- Easy setup: simply insert on the appropriate mixer input channels and raise the faders.
- One card provides automatic mixing for up to 16 channels at 48 kHz, or 8 channels at 96 kHz.
- Up to 8 cards can be used simultaneously to handle up to 128 channels at 48 kHz, or 64 channels at 96 kHz.
- Channels can be grouped to make up to three independent automatic mixers.
- Can also function as an 8-channel auto-mixer + 8-channel ADAT interface.
- Dugan Control Panel software application provides remote control and level monitoring capability.
- Rsio64-D supports up to 4 units to be combined in 2U rack space connecting to a Dante network.



	DUGAN-MY16
OPERATING MODES STANDARD	16 channels of Dugan mixing at 44.1 or 48 kHz, ADAT connectors link multiple Dugan units
HIGH-RATE	8 channels of Dugan mixing at 88.2 or 96 kHz sample rate, ADAT connectors link multiple Dugan units
SHARED	8 channels of Dugan mixing and 8 channels of general purpose ADAT I/O
DIGITAL I/O	ADAT optical, 24 bit, 44.2/48kHz (Shared mode only)
GAIN	Unity
AUDIO LATENCY	0.2ms
OPTICAL LINKING	Up to 8 units may be linked in a ring; links with Models D-2, D-3 , E, E-1 and Dugan-MY16
CONNECTORS	10/100 BASE T: RJ-45
LINKING AND DIGITAL I/O	ADAT optical
RECOMMENDED	Yamaha Mixers CL5/3/1, PM5D/-RH, DSP5D, M7CL-48ES/-48/-32, LS9-32/-16, DM2000, DM1000, 02R96, 01V96/96i, DME64N/24N, MTX5-D

MGP-SERIES



DIGITAL HEART. ANALOGUE 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 sought-after classic EQ modules.

- * PREMIUM MIXING CONSOLES WITH UP TO 32 CHANNELS
- * D-PRE CLASS A MIC PREAMPS
- # 2 SEPARATED EFFECTS PROCESSORS (REV-X & SPX)
- * 1-KNOB COMPRESSORS
- * 2 HYBRID CHANNELS WITH DSP EFFECTS (DUCKER, STEREO IMAGE, LEVELER)
- * IPOD/IPHONE APP



MGP32X

- 32 channels
- 24 Discrete Class A D-PRE Mic Preamps
- Musical X-pressive EQ
- 16 Professional 1-knob Compressors with LED
- Dual Digital Effects Processors: REV-X and Classic SPX
- Stereo Hybrid Channels DSP Effects (Leveler, Stereo Imager, Priority Ducker)
- Digital Connectivity for iPod/iPhone
- USB Devices recorder (16-bit WAV, MP3) and playback (Stereo Out)
- 31-band GEQ (9 flex-band /14 fixed-band)
- Master compressor (3-band) assigned to stereo bus
- Free MGP Editor

MGP24X

- 24 channels
- 16 Discrete Class A D-PRE Mic Preamps
- Musical X-pressive EQ
- 8 Professional 1-knob Compressors with LED
- Dual Digital Effects Processors: REV-X and Classic SPX
- Stereo Hybrid Channels DSP Effects (Leveler, Stereo Imager, Priority Ducker)
- Digital Connectivity for iPod/iPhone
- USB Devices recorder (16-bit WAV, MP3) and playback (Stereo Out)
- 31-band GEQ (9 flex-band /14 fixed-band)
- Master compressor (3-band) assigned to stereo bus
- Free MGP Editor









MGP16X

- 16 channels
- 10 Discrete Class A D-PRE Mic Preamps
- Musical X-pressive EQ
- 8 Professional 1-knob Compressors with LED
- Dual Digital Effects Processors: REV-X and Classic SPX
- Stereo Hybrid Channels DSP Effects (Leveler, Stereo
- Imager, Priority Ducker)
- Digital Connectivity for iPod/iPhone
- DSP settings via iPod/iPhone
- Rugged, impact-resistant, powder-coated metal chassis
- Integrated rack-ears for easy rack mounting (11U+2)
- Internal universal power supply for world-wide use

MGP12X

- 12 channels
- 6 Discrete Class A D-PRE Mic Preamps
- Musical X-pressive EQ
- 4 Professional 1-knob Compressors with LED
- Dual Digital Effects Processors: REV-X and Classic SPX
- Stereo Hybrid Channels DSP Effects (Leveler, Stereo
- Imager, Priority Ducker)
- Digital Connectivity for iPod/iPhone
- DSP settings via iPod/iPhone
- Rugged, impact-resistant, powder-coated metal chassis
- Integrated rack-ears for easy rack mounting (11U+2)
- Internal universal power supply for world-wide use



MGP EDITOR



MGP EDITOR is a free software application that gives you additional control of your MGP mixer's DSP settings via your iPhone and iPod touch. With a simple and intuitive graphic display, **MGP EDITOR** gives you additional, detailed control of your REV-X and SPX effects parameters – as well as Hybrid Channel's Priority Ducker, Leveler and attenuator. With MGP32X and 24X, setting of GEQ and Mastercompressor can be adjusted. Direct playback of iTunes play list is also possible.



Requires an MGP mixing console
Using a USB cable, connect your iPhone or iPod touch to the MGP's Apple Certified USB port.



	MGP32X	MGP24X	MGP16X	MGP12X
MIXING CHANNELS	32	24	16	12
D-PRE MIC PREAMPS	24	16	10	6
1-KNOB COMPRESSORS	16	8	8	4
EQUALIZER	3-band X-Pressive EQ	3-band X-Pressive EQ	3-band X-Pressive EQ	3-band X-Pressive EQ
FX PROCESSORS	2 separated (SPX & Rev-X Reverb)			
HYBRID CHANNELS	2 with DSP Effects (Priority Ducker, Leveller, Stereo Image)			
IPOD/IPHONE APP	Yes (USB port to connect and charge iPod or iPhone)	Yes (USB port to connect and charge iPod or iPhone)	Yes (USB port to connect and charge iPod or iPhone)	Yes (USB port to connect and charge iPod or iPhone)
3-band master Compressor	Yes	Yes	No	No
GRAPHIC EQ	Yes (feature 14 band and flex 9 band)	Yes (feature 14 band and flex 9 band)	No	No
USB DEVICE RECORDING	Yes (WAV or MP3)	Yes (WAV or MP3)	No	No
AUX SENDS	4 (2x Pre/2x Pre/ Post switchable)	4 (2x Pre/2x Pre/ Post switchable)	2 (1x Pre/1x Pre/ Post switchable)	2 (1x Pre/1x Pre/ Post switchable)
GROUPS	4	4	4	4
MATRIX	2	2	No	No
RACKMOUNTS	Yes	Yes	No	No
DIMENSIONS (WXHXD)	1207 x 169 x 565 mm	819 x 169 x 565 mm	447 x 143 x 495 mm	348 x 143 x 495 mm





MIXING CONSOLES





MG-SERIES



MG20XU

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- High-grade effect: SPX with 24 programs
- 24-bit / 192khz 2 in / 2 out USB Audio Interface
- iPod compatible vie Apple iPad Camera Connection Kit
- Cubasis LE free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit included (12U+2)
- Metal chassis





MG20

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit included (12U+2)
- Metal chassis





MG16XU

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- High-grade effect: SPX with 24 programs
- 24-bit / 192khz 2 in / 2 out USB Audio functions
- iPod compatible vie Apple iPad Camera Connection Kit
- Cubasis LE free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit included (12U+2)
- Metal chassis





MG16

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit included (12U+2)
- Metal chassis





MG12XU

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- High-grade effect: SPX with 24 programs
- 24-bit / 192khz 2 in / 2 out USB Audio functions
- iPod compatible vie Apple iPad Camera Connection Kit
- Cubasis LE and MG REC/PLAY free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit (10U+2) available as an option (RKMG12)
- Metal chassis





MG12XUK

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- High-grade effect: SPX with 24 programs
- 24-bit/192khz 2 in/2 out USB Audio functions
- iPod compatible via Apple iPad Camera Connection Kit
- Cubasis LE and MG REC/PLAY free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Metal chassis









MG12

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Rack Mount Kit (10U+2) available as an option (RKMG12)
- Metal chassis



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MG10XU

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- 24-bit / 192khz 2 in / 2 out USB Audio functions
- iPod compatible vie Apple iPad Camera Connection Kit
- Cubasis LE and MG REC/PLAY free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Metal chassis







MG10XUF

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- 24-bit/192khz 2 in/2 out USB Audio functions
- iPod compatible vie Apple iPad Camera Connection Kit
- Cubasis LE and MG REC/PLAY free download in the App store
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Internal universal power supply for world-wide use
- Metal chassis







MG10

- D-Pre mic preamps with inverted Darlington circuit
- Improved 1-Knob compressors
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Metal chassis









MG06X

- D-Pre mic preamps with inverted Darlington circuit
- High-grade effect: SPX with 6 programs
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Metal chassis





MG06

- D-Pre mic preamps with inverted Darlington circuit
- PAD switch on mono inputs
- XLR balanced outputs
- +48V phantom power
- Metal chassis



AG SERIES



MULTIPURPOSE MIXER WITH USB AUDIO INTERFACE





AG03

AG03

- D-Pre mic preamp with inverted Darlington circuit
- Stereo LINE input
- USB interface, 192kHz / 24 bit, including CUBASE AI download
- 1-TOUCH DSP Compressor/EQ and SPX reverb





AG06

AG06

- Two D-Pre mic preamps with inverted Darlington circuit
- Two stereo LINE inputs
- USB interface, 192kHz / 24 bit, including CUBASE AI download
- 1-TOUCH DSP Compressor/EQ, SPX reverb effect plus guitar amp simulation



FLEXIBLE CONNECTIVITY

Phantom Power and a Hi-Z switchable input allow you to connect a variety of microphones, instruments and external audio players directly into your AG, while front panel volume knobs and a fader* provide fast and easy volume control. *AG03 only



HIGH RESOLUTION (192KHZ / 24BIT) PLAYBACK AND RE-CORDING

AG's high-resolution sound reproduces every subtlety of your performances and recordings with flawless fidelity and accurate imaging, ideal for music production, mixing and broadcasting, as well as highdefinition listening.



D-PRE STUDIO QUALITY MIC PREAMP

AG features the same premium mic preamps developed by Yamaha for high-end recording consoles, capturing most detailed nuances of your vocal or instrumental performance.



1-TOUCH DSP OFFERS PRO-FESSIONAL SOUND WITH A SINGLE TOUCH

AG features 1-TOUCH DSP that utilizes Yamaha's state-of-the-art signal processing technology. COMP/EQ will hone your tone while EFFECT adds ambient reverb, and AMP SIM* delivers a classic, warm tube amp sound - all at the touch of a button. *AG06 only



GENERAL SPECIFICATIONS

		AG06	AG03			
Frequency Response (nom. output level @ 1kHz)	Input (MIC) to MONITOR OUT via USB IN/OUT	+0.5 dB/-1.5 dB (20 Hz to 48 kHz @ Fs = 192 kHz), GAIN knob: Min, TO PC: DRY CH1-2G				
Total Harmonic Distortion (THD+N)	Input to MONITOR OUT	0.05% @ 0 dBu (20 Hz to 20 kHz), GAIN knob: Min 0.01% @ +4 dBu (1 kHz), GAIN knob: Min				
(20 Hz to 20 kHz)		-128 dBu (Mono Input Channel, Rs: 150	Ω, GAIN knob: Max)			
		-103 dBu (MONITOR OUT, MONITOR knob: Min)				
Crosstalk (1 kHz)		-80 dB				
Input Channels		Mono (MIC/LINE): 2 including HEADSET MIC (Plug-in Power) (CH1 MIC and HEADSET MIC cannot be used simultaneously.), Stereo (LINE): 2, USB IN: 1, AUX IN: 1	Mono (MIC/LINE): 1 including HEADSET MIC (Plug-in Power) (CH1 MIC and HEADSET MIC cannot be used simultaneously.), Stereo (LINE) / Mono (GUITAR): 1, USB IN:1, AUX IN:1			
Output Channels		STEREO OUT: 1, MONITOR OUT: 1, PHONES: 2 including HEADSET PHO- NES (PHONES and HEADSET PHONES cannot be used simultaneously.)	MONITOR OUT: 2, PHONES: 2 including HEADSET PHO- NES (PHONES and HEADSET PHONES cannot be used simultaneously.)			
Bus		Stereo: 1				
Input Channel	PAD	26 dB				
Function (CH1)	DSP	CH1: COMP/EQ, EFFECT (SPX Reverb) CH2: AMP SIM, EFFECT (SPX Reverb)	COMP/EQ, EFFECT (SPX Reverb)			
	PEAK LED	LED turns on when the signal reaches 3 d	B below clipping level.			
Level Meter	USB Output Level	2x2 point LED meter [PEAK, SIG]				
USB Audio	2 IN / 2 OUT	USB Audio Class 2.0 compliant Sampling Frequency: Max 192 kHz Bit Depth: 24-bit				
FOOT SW		EFFECT Mute on/off				
Power Requirements		DC 5 V, 500 mA				
Power Consumption		Max. 2.5 W				
Dimensions (W x H x D)		155 x 63 x 202 mm	129 x 63 x 202 mm			
Net Weight		1.0 kg	0.8 kg			
Included Accessories		USB Cable (1.5 m), CUBASE AI DOWNLOAD INFORMATION, Owner's Manual, Technical Specifications				
Optional Accessories		Foot Switch: FC5, Mic Stand Adaptor: BM	1S-10A			



LOOPBACK FUNCTION FOR INTERNET LIVE STREAMING

The LOOPBACK function consolidates all input channels and playback tracks, and routes the mix to your internet streaming software for easy live streaming of performances to the internet.



CLASS COMPLIANT MODE FOR IPAD CONNECTION

AG is compatible with Apple's second generation iPad or later, allowing you to create high quality recording and playback using an iOS compatible music app such as Cubasis. *Apple iPad Camera Connection Kit/ Lightning to USB Camera Adapter required



DURABLE, COMPACT METAL CHASSIS

The tough metal body of the AG is extremely portable and easy to place on a keyboard, on a guitar case, or even on a mic stand using an optional adapter.



USB BUS POWERED OR MOBILE BATTERY

AG can operate using USB bus power eliminating the need for an external adaptor. AG can also be driven by a mobile battery for use with an iPad providing users with a true mobile mixing and audio interface solution.

EMX SERIES





(EMX5016CF ONLY)

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.

CONSOLE-STYLE POWERED MIXERS THAT CAN TAKE YOUR LIVE SOUND TO THE NEXT LEVEL

- * EMX2: 8 INPUTS, UP TO 4 MICROPHONES, 2 X 110W
- * EMX5: 12 INPUTS, UP TO 8 MICROPHONES, 2 X 500W
- * EMX7: 12 INPUTS, UP TO 8 MICROPHONES, 2 X 600W, GRAPHIC EQUALIZER
- * EMX5014C: 14 INPUTS, UP TO 8 MICROPHONES, 2 X 320W, GRAPHIC EQUALIZER
- * EMX5016CF: 16 INPUTS, UP TO 12 MICROPHONES, 2 X 320W, DIGITAL EQUALIZER





EMX5016CF



EMX5014C

	EMX5016CF	EMX5014C
OUTPUT POWER (1 KHZ/8 OHMS)	2x320W	2x320W
CHANNELS	16	14
MICROPHONE INPUTS	12	10
STEREO LINE INPUTS	4	4
BUS OUTPUTS	ST	ST
AUX OUTPUTS	3 (1FX)	3 (1FX)
EFFECTS	2x SPX, 2x Digital 9-band GEQ, Feed- back suppressor, Frequency response correction, Maximizer, YSProcessing	2x SPX, 2x 9-band GEQ, YSProcessing
DIMENSIONS	444 x 155 x 493 mm	444 x 155 x 493 mm
POIDS	11 kg	10.5 kg
OPTIONAL RACK MOUNT KIT	RK5014	RK5014

EMX SERIES





EMX7

EMX5

EMX2

	EMX7	EMX5	EMX2
OUTPUT POWER (1KHZ/8OHM)	2x600W	2x500W	2x110W
CHANNELS	12	12	10
MICROPHONE INPUTS	8	8	4
STEREO LINE INPUTS	4	4	3
BUS OUTPUTS	ST	ST	ST
AUX OUTPUTS	2 (1fx)	2 (1fx)	1 (fx)
EFFECTS	SPX Algorithm 24 programs, Feedback suppressor, Graphic equalizer, Speaker processor	SPX Algorithm 24 programs, Feedback suppressor, Master EQ, Monitor EQ	SPX Algorithm Reverb 4 pro- grams, MASTER EQ (SPEECH to MUSIC), Feedback suppressor
DIMENSIONS	465x308x325mm	465x308x325mm	375x147x220mm
WEIGHT	9.5KG	9.5KG	4.2KG
OPTIONAL RACK MOUNT KIT	RK7	RK7	RK2







RK-EMX7

RK-EMX2

RK5014

ACCESSORIES EMX SERIES

RK-EMX7	RK-EMX2	RK5014
RACK MOUNT KIT FOR	RACK MOUNT KIT FOR	RACK MOUNT KIT FOR
EMX5, EMX7	EMX2	EMX5014C, EMX5016CF (12U+1)

STAGEPAS SERIES

LIVE

The **STAGEPAS SERIES** features 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 sound 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.



STAGEPAS 600BT



STAGEPAS 400BT

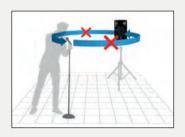
	STAGEPAS 600BT	STAGEPAS 400BT
MAX. POWER / MAX. SPL	680 W / 129dB	400 W / 125dB
SPEAKER UNIT	LF: 10" Cone / HF: 1,4" v.c. Driver	LF: 8" Cone / HF: 1" v.c. Driver
CHANNELS	10 Channels	8 Channels
EQ	3-Band EQ	2-Band EQ
FX	SPX digital reverb	SPX digital reverb
OUTPUT PROCESSOR	Feedback processor, 1-knob master EQ	Feedback processor, 1-knob master EQ
BLUETOOTH INPUTS	Bluetooth Ver.4.1, A2DP v1.2, Maximum Range: Approx. 10 m	Bluetooth Ver.4.1, A2DP v1.2, Maximum Range: Approx. 10 m
SPEAKER MOUNT	34.8-35.2 mm pole socket with StageLok™	34.8-35.2 mm pole socket with StageLok™
PHANTOM POWER	30V	30V
SUBWOOFER OUTPUT	with auto HPF	with auto HPF
DIMENSIONS (W X H X D)	Speaker: 335 x 545 x 319 mm Mixer: 348 x 197 x 135 mm	Speaker: 289 x 472 x 275 mm Mixer: 308 x 180 x 116 mm
WEIGHT	25.6 kg	18.3 kg











BLUETOOTH® WIRELESS AUDIO STREAMING

Equipped with a Bluetooth input for wireless audio streaming from smartphones or tablets, the STAGEPAS-BT 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.

SPX DIGITAL REVERB

One knob gives you access to four different high-quality reverb settings, perfect for vocals and acoustic instruments. Simply turn the knob to change the reverb type and time, and then you're ready to apply just the right amount of high-resolution effect to each channel.

FEEDBACK SUPPRESSOR

Avoid the uncomfortable feedback that plagues so many sound reinforcement novices and professionals alike. Usually found only on high-end gear, this intelligent function removes feedback automatically with the push of a button, giving you a clear, professional sound.

OPTIONAL ACCESSORIES



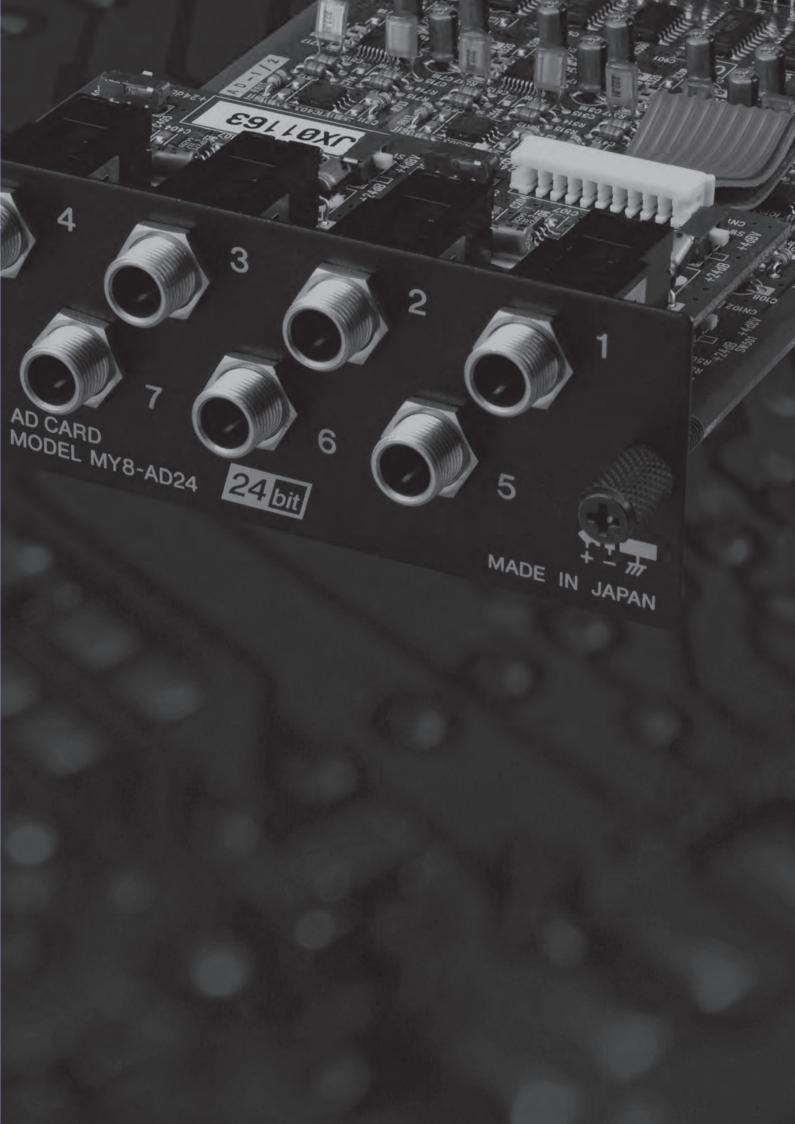
DXS12MKII AND DXS15MKII SUBWOOFERS (connect to subwoofer output)

> **BMS-10A** Microphone stand adaptor





INTERFACES



MINI-YGDAI CARDS

СН	RESOLUTION	CONNECTOR	

ANALOG

* AD/DA				
MY8-ADDA96	8in 8out	24bit	Euroblock x 16	96kHz compatible 8-in / 8-out analog audio interface. Max input / output level: +24dBu. 8x Euro block connectors (balanced).
* AD				-
MY8-AD96	8in	24bit	D-sub 25 pin x 1	96kHz compatible 8-in analog audio interface. Max input level: +24dBu(default) / +18dBu; GAIN switches at each input port. 1x D-sub 25pin connector.
MY8-AD24	8in	24bit	TRS Phone x 8	8-in analog audio interface. Max input level: +24dBu(default) / +4dBV; GAIN switches at each input port. 8x TRS phone jacks (balanced).
MY4-AD	4in	24bit	XLR3-31 x 4	4-in analog audio interface. Max input level: +24dBu(default) / +18dBu / +4dBV; GAIN switches at each input port. 4x XLR-3-31 type connectors (balanced).
* DA			1	
MY8-DA96 18dBu	8out	24bit	D-sub 25 pin x 1	96kHz compatible 8-out analog audio interface. Max output level: +18dBu. 1x D-sub 25pin connector (balanced).
MY4-DA e18dBu	4out	20bit	XLR3-32 x 4	4-out analog audio interface. Max output level: +18dBu(default) / +4dBV; GAIN switches at each output port. 4x XLR-3-32 type connectors (balanced).

DIGITAL

* ADAT				
MY16-AT	16in 16out	24bit	OPTICAL x 4	 16 in / 16 out ADAT interface. * If you use the card in Double Channel mode (FS: 88.2/96kHz), eight inputs and eight outputs are available.
MY8-AT	8in 8out	24bit	OPTICAL x 2	8in / 8 out ADAT interface. * If you use the card in Double Channel mode (FS: 88.2/96kHz), four inputs and four outputs are available.





MODEL CH RESOLUTION CONNECTOR	DDEL		СН	RESOLUTION	CONNECTOR	
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* AES/EBU				
MY16-AE	16in 16out	24bit	D-sub25 pin x 2	16 in / 16 out AES/EBU interface. If you use the MY16-AE in Double Channel mode, selecting on the console's Word Clock Select page a slot that has the card installed enables the console to synchronize to the 88.2kHz or 96kHz clock signal.
MY8-AE96S	8in 8out	24bit	D-sub25 pin x 1	96kHz compatible 8-in / 8-out AES/EBU inter- face. Equipped with a sampling rate converter at the input.
MY8-AE96	8in 8out	24bit	D-sub25 pin x 1	96kHz compatible 8-in / 8-out AES/EBU inter- face.
MY8-AE	8in 8out	24bit	D-sub25 pin x 1	8-in / 8-out AES/EBU interface.
MY8-AEB	8in 8out	24bit	BNC x 9 (IN x 4, OUT x 4, REF Video x 1)	8-in / 8-out AES-3id-1995 compliant digital audio interface. x BNC for AES In/Out; 1x BNC for Reference Video In with the eXi-Clock sync capability.
* MADI				
MY16-MD64	16in 16out	24bit	BNC x 2 Optical x 2 RJ-45 x 2	16-in / 16-out MADI interface. Expandable to 64 in / 64 out with MY16-EX expansion cards. 2x BNC connectors and 2x SC fiber connectors for MADI I/O and 2x RJ45 for MY16-EX connection.
* SDI	1	1	1	
MY8-SDI-ED	1 in 1 thru 2 out	24bit	BNC x 1 BNC (same signal) x 2	HD-/SD-SDI embed/de-embed card. Capable to de-embed two of the 4 audio groups out of an HD-SDI signal to the console. Capable to embed two audio groups into an HD-/SD-SDI signal for output. 2x BNC Connectors for HD-/SD-SDI output (parallel), 1x BNC connector for Thru, and 1x BNC connector for HD-SDI input.

MODEL	СН	RESOLUTION	CONNECTOR	
NETWORK				
* COBRANET				
MY16-CII	16in 16out	24bit	RJ-45 x 2	16-in / 16-out CobraNet interface. Compliant with Yamaha HA Remote protocol via slot. If you use the card in Double Channel mode (FS: 88.2/96kHz), eight inputs and eight outputs are available.
* DANTE	·			
Dante-MY16-AUD2	16in 16out	16bit 24 bit 32 bit	RJ-45 x 2 D-sub9 x 1	16-in / 16-out Dante interface with support for Daisy chain switch mode, device clock and AES67 at low power consumption. 9-pin D-Sub support for Yamaha HA Remote protocol. Made by Audinate: http://www.audinate.com
* ETHERSOUND				
MY16-ES64	16in 16out	24bit	etherCON x 2 (EtherSound) RJ-45 x 2 (for MY16-EX)	16-in / 16-out EtherSound (ES100) interface. Compliant with Yamaha HA Remote protocol. Expandable to 64 in / 64 out with MY16-EX expansion cards. If you use the card in Double Channel mode (FS: 88.2/96kHz), eight inputs and eight outputs are available.
* I/O EXPANSION				
MY16-EX	16in 16out	24bit	RJ-45 x 4	16-in / 16-out expansion card for MY16-ES64 and MY16-MD64. 4x RJ-45 connectors.







MY CARD COMPATIBILITY CHART

			CL	QL	PM5D	M7CL	LS9	DM2K	02R96	DM1K	01V96i	мтх	DME	DA824	TXn	RSio	CS- R10	CS- R105	CSD- R7	DSP- R10	RPIO- 622	RPIO- 222
Analog	AD/DA	MY8-AD- DA96	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	AD	MY8-AD96	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AD24	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY4-AD	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	DA	MY8-DA96	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY4-DA	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
Digital	ADAT	MY16-AT	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES
		MY8-AT	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES
	AES/EBU	MY16-AE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AE96S	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AE96	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
		MY8-AEB	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	MADI	MY16-MD64	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	SDI	MY8-SDI-ED	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES
Network	CobraNet	MY16-CII	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	Dante	Dante-MY16- AUD2	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	EtherSound	MY16-ES64	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	I/O Expansion	MY16-EX	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
Specialty	Acoustic Echo Canceller	MY4-AEC	-	-	-	-	-	-	-	-	-	YES	YES	-	-	-	-	-	-	-	-	-
	Waves SoundGrid	WSG-Y16	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	YES	YES	YES	YES	YES
	Lake Processing	MY8-LAKE*	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES
	Automatic Mixing Controller	Dugan-MY16	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	-	-	YES	YES	YES	YES	YES	YES	YES

SWP1 SERIES



SWITCHES FOR DANTE NETWORKED AUDIO SYSTEMS

Complex network switch setup that was previously better left to an IT technician can now be easily accomplished by anyone. A simple switch setting is all it takes to optimize **SWP1 SERIES** network switches for Dante operation, and a dedicated Windows application provides "network visibility" for comprehensive monitoring and control. The **SWP1 SERIES** makes audio network setup, monitoring, and operation easier and more convenient than ever before.



- * BASED ON 20 YEARS OF Yamaha NETWORK SWITCH TECHNOLOGY
- # DIP SWITCH DANTE OPTIMIZATION
- * 3 PRESET VLAN TYPES
- * NETWORK VISIBILITY
- * ETHERCON CONNECTORS
- * OPTICAL FIBRE
- * REDUNDANT EXTERNAL DC INPUT

Yamaha LAN MONITOR

Yamaha LAN Monitor software for Windows works with the SWP1 series to allow comprehensive monitoring and management of not only any connected SWP1 series switches, but connected Dante devices as well. Yamaha's original L2MS (Layer 2 Management Service) protocol extends "network visibility" capability to any Dante devices connected to SWP1 series switches.





GENERAL SPECIFICATIONS

MODEL		SWP1-16MMF	SWP1-8MMF	SWP1-8									
Number of LAN port T/100BASE-TX/10B/ CON connector)		12	8	8									
Number of LAN port T/100BASE-TX/10B/ connector)		4											
Number of SFP ports SX/opticalCON con		2 (1 optical module is installed as standard)	2 (1 optical module is installed as standard)	2 (optical modules are not installed as standard)									
Console port		1 (RJ-45)	1 (RJ-45)	1 (RJ-45)									
Automatic negotiatio	n	Available	Available	Available									
Auto MDI/MDI-X		Available	Available	Available									
Switching capacity		36 Gbit/s	20 Gbit/s	20 Gbit/s									
Throughput		27 Mpps	15 Mpps	15 Mpps									
Maximum number of	MAC addresses	16,384	16,384	16,384									
Frame buffer		1024 kB	1024 kB	1024 kB									
VLAN		Port VLAN, Tag VLAN (IEEE802.1	Q), Private VLAN										
Maximum number of	VLANs	256 (VLAN ID 1-4,094) *VLAN	ID 1 is the default VLAN ID.										
IP multicast		IGMP Snooping (v1/v2/v3)	IGMP Snooping (v1/v2/v3)	IGMP Snooping (v1/v2/v3)									
QoS			S, Remarking (CoS, ToS, DSCP), Sch										
Flow control		IEEE802.3x (Full-duplex), back pr	· · · · · · · · · · · · · · · · · · ·	3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,									
Support functions		Storm control, HOL blocking preve 802.3ad LACP, Static), Spanning down shift, Packet counter, Power client, Logging, Firmware downloa	Storm control, HOL blocking prevention, Loop detection, ACL, SNMP agents, Link aggregation (IEEE 802.3ad LACP, Static), Spanning tree (STP*, RSTP*, MSTP), Port mirroring, Port shutdown, Link speed down shift, Packet counter, Power saving mode (IEEE802.3az EEE; Disabled in DANTE mode), DHCP client, Logging, Firmware download via TFTP/HTTP, Config file download via TFTP *STP and RSTP are supported via downward compatibility of MSTP.										
DIP switches		CONFIG, VLAN PRESET	CONFIG, VLAN PRESET	CONFIG, VLAN PRESET									
Indicators			RT×16×2*, SFP×2 *The LED MODE LINK/ACT-SPEED, STATUS, or VLAN										
Operating temperatu	ire	0 to 40°C	0 to 40°C	0 to 40°C									
Storage temperature		-20 to 60°C	-20 to 60°C	-20 to 60°C									
Power supply (AC IN	l inlet)	AC100V-240V, 50/60Hz, Interna	l power supply (no power switch), Po	ower supply inlet: locking type									
Power supply (EXT D	C INPUT inlet)	External power supply requiremen	ts: 24VDC±2V, 1A, XLR-4-32 type C	onnector									
Maximum power con	sumption	16 W, 0.29 A	11 W, 0.21 A	11 W, 0.21 A									
Heat dissipation		14.0 kcal/h	9.5 kcal/h	9.5 kcal/h									
Chassis		Metal case, no fan	Metal case, no fan	Metal case, no fan									
Hazardous substance	es management	RoHS compliant	RoHS compliant	RoHS compliant									
Dimensions	W x H x D	480x44x362 mm	480x44x362 mm	480x44x362 mm									
Weight		4.6 kg	4.2 kg	4.2 kg									
Accessories		Power cord, Owner's manual	Power cord, Owner's manual	Power cord, Owner's manual									
Options		MMF-SWP1 (Optical expansion u	•										
INTERFACE SPEC			,										
Terminal	Format	Level	Connector										
1-8 ^{*1} 1-8,13-16 ^{*2*3}	IEEE802.3	10BASE-T/100BASE-TX/ 1000BASE-T	etherCON CAT5e										
9-12*2*3	IEEE802.3	10BASE-T/100BASE-TX/ 1000BASE-T	RJ-45										
9,10*4 17,18*5*8	IEEE802.3	1000BASE-SX	opticalCON										
CONSOLE (RS-232C)	-	RS-232C	RJ-45 *6										
EXT DC INPUT	-	-	XLR-4-32 type *7										

*1 SWP1-8MMF, SWP1-8 *2 SWP1-16MMF *3 These terminals support AutoMDI/MDI-X

*3 These terminals support AutoMDI/MDI-X
*4 The SWP1-8MMF supports the option for port 10, and the SWP1-8 supports the option for both ports 9 and 10
*5 The SWP1-16MMF supports the option for port 18
*6 For the pin assignments, refer to CONNECTOR PIN ASSIGNMENTS
*7 Pin 4=+24VDC, pin 1=GND, pins 2 and 3=N.C.
External power supply requirements: 24VDC±2V, 1A
*8 Conforming cable: GI-type multi-mode fiber cables with a core diameter /cladding diameter of approximately 50 µm/125 µm.
Maximum cable length: 300 m

RSio64-D



THE EXTENSIVE MINI-YGDAI CARD LINEUP ON A DANTE NETWORK

The **RSio64-D**, the latest addition to the R series, is an audio interface that can convert between Dante and Mini-YGDAI formats for up to 64 inputs and 64 outputs. It provides versatile routing capability as well. Four Mini-YGDAI card slots allow cards for a wide variety of input/output formats as well as processing functions to be connected to a Dante network for live sound, broadcast, recording, post production, and other applications. The **RSio64-D** also supports remote setup from CL and QL series consoles.

<u>⊿</u>Dante[™]



RSio64-D

- Accepts a wide range of Mini-YGDAI input/output and processing cards
- Seven general routing presets, including routing between Mini-YGDAI cards
- Supports matrix patching from R Remote V3 or a CL/QL series console
- Sample rate converters for all four Mini-YGDAI slots
- EXT DC INPUT for redundant power supplies
- Supports Dante redundancy (primary/secondary)



CL SERIES

Sound, operation, function, and reliability all took a notable evolutionary leap forward with the **CL SERIES** digital live sound consoles. High-end effects created through a convergence of Yamaha VCM technology and expertise from Rupert Neve Designs, refined operability based on the acclaimed Centralogic concept, and flexible remote control functionality provide the most advanced capabilities available for live sound and live recording applications.



QL SERIES

With natural sound inherited from the CL series, outstanding operability, and builtin Dante digital audio network support for flexible system setup, all-in-one **QL SERIES** digital consoles are favorites in a wide variety of sound applications.

NUAGE

First-class control surfaces that bring out the best in Steinberg DAW software plus audio interfaces that thoroughly satisfy the needs of professionals combine in a superior commercial production system solution.



64 CHANNEL DANTE / MINI YGDAI AUDIO INTERFACE

	RSio64-D
SAMPLING FREQUENCY (EXT. CLOCK)	44.1kHz, 48kHz, 88.2kHz, 96kHz
SIGNAL DELAY SLOT IN TO SLOT OUT, 96KHZ	less than 0.2 ms
SAMPLE RATE CONVERTOR	SRC clock range 39.7 kHz - 101.7 kHz SRC ratio 1:2.6 to 2.6:1
DANTE	64ch Input / 64ch Output @ 48kHz, 24 bit or 32 bit 32ch Input / 32ch Output @ 96kHz, 24 bit or 32 bit
CONNECTORS	etherCON CAT5e x 2 (Primary, Secondary) Wordclock IN BNC x 1 ext. DC input XLR-4-32 x 1 MY slot x 4
DIMENSIONS (W x H x D)	480 x 88 x 365 mm
WEIGHT	6.1 kg



SEVEN GENERAL ROUTING PRESETS, INCLUDING ROUTING BETWEEN MINI-YGDAI CARDS

To make the **RSio64-D** even more convenient and easy to use as a format converter and router, presets for seven basic routing patterns are built in, including routing between Mini-YGDAI cards. A rotary switch on the front panel allows direct selection of one-to-one Dante/Mini-YGDAI routing, branched Mini-YGDAI/Mini-YGDAI routing, and other options designed to suit a variety of applications. One programmable user setup is also provided.



SUPPORTS MATRIX PATCHING FROM R-REMOTE V3 OR A CL/QL SERIES CONSOLE

Used with the R Remote software application or a CL or QL series console, full matrix patching is supported so that more complex routing can be set up as required.

R-I/O SERIES



Ro8-D

HIGH-PERFORMANCE REMOTE I/O FOR CL SERIES AND OTHER DIGITAL MIXING CONSOLES

- Sonic performance that brings out the best in any system
- Dante network protocol contributes to greater system scalability and flexibility
- Support for CL series consoles as well as other Dante based systems
- Automatic digital-stage compensation for analog gain changes (CL series only)
- Four models flexibly accommodate any system requirements Rio3224-D2, Rio1608-D2, Ri8-D, Ro8-D



Ri8-D

Rio3224-D2

Rio1608-D2

			DANTE R	ACK I/O		
	Rio3224-D2	Rio1608-D2	Ri8-D	Ri8-DEC	Ro8-D	Ro8-DEC
ANALOGUE INPUTS	32	16	8	8	-	-
ANALOGUE OUTPUTS	16	8	-	-	8	8
DIGITAL OUTPUTS	4 pair AES/EBU	-	-	-	-	
NETWORK I/O	32X24 Dante (AES67)	16x8 Dante (AES67)	8x0 Dante (AES67)	8x0 Dante (AES67)	0x8 Dante (AES67)	0x8 Dante (AES67)
CONNECTORS	32 XLR In / 16 XLR Out 4 x AES/EBU XLR 2x EtherCON	16 XLR In / 8 XLR Out 2x EtherCON	8 XLR In 2 x RJ45	8 XLR in 2 x EtherCON	8 XLR Out 2 x RJ45	8 XLR Out 2x EtherCON
HEAD AMP CONTROL	QL/CL/TF/ Rivage, R-Remote	QL/CL/TF/ Rivage, R-Remote	QL/CL/TF/ Rivage, R-Remote	QL/CL/TF/ Rivage, R-Remote	n/a	n/a
DANTE DEVICE LOCK / DDM	yes	yes	yes	yes	yes	yes
REDUNDANT POWER SUPPLY UNITS	yes	yes	no	no	no	no
DISPLAY	yes	yes	no	no	no	no



RMio64-D



DANTE/MADI CONVERSION FOR BROADCAST AND LIVE APPLICATIONS

- Bridging formats with seamless efficiency
- Dante Redundancy for resilient infrastructure
- MADI redundancy via alternative cable types
- Dual MADI connectors offer more than just conversion
- Tight integration for QL, CL and Nuage series



RMio64-D

DANTE / MADI BRIDGE

	RMio64-D
AUDIO FORMAT	MADI (AES10-2008), 64 channels i/o 24-bit @ 48kHz
AUDIO NETWORK PROTOCOL:	Dante, 64 channels i/o 24-bit
SUPPORTED SAMPLE RATES	44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4khz, 192khz
SRC	SRC lock range 38.59khz – 216khz, SR ratio limit 6:1
CONNECTORS	MADI IN/OUT: BNC, SC Dante Primary & Secondary: etherCON 1000Base-T Wordclock: BNC IN, IN SRC, OUT

Nio SERIES



HIGH PERFORMANCE AES/EBU AND LINE LEVEL AUDIO I/O UNITS

- * SONIC PERFORMANCE UP TO 192KHZ
- * DANTE NETWORK PROTOCOL CONTRIBUTES TO GREATER SYSTEM SCALABILITY AND FLEXIBILITY
- * AES/EBU, ANALOGUE LINE LEVEL AND COMBINED MODELS
- * WORDCLOCK AND SYSTEM LINK, REDUNDANT DANTE CONNECTION



Nio-A16



Nio-D16





Nio-A8D8

	Nio-A16	Nio-D16	Nio-AD8D8
CONFIGURATION	16 analogue line level I/O	16 AES/EBU I/O (8 pairs)	8 analogue line level I/O + 8 AES/EBU I/O (4 pairs)
SAMPLING FREQUENCY	Internal	44.1kHz/48kHz/88.2kHz/96kH	Hz/176.4kHz/192kHz
	External	44.1kHz/48kHz/88.2kHz/96k Hz/176.4kHz/192kHz	±200ppm
FREQUENCY RESPONSE	±0.5dB, 20Hz-20kHz,ref to the r +4dBu(typ)	nominal output level @1kHz, Input&	&Output Gain:0dB, Input level
THD+N *1	Less than 0.005%, input to output	ut, GAIN:0dB	
DYNAMIC RANGE	120dB typ.,ADC		
CROSSTALK@1KHZ	-100dB, CH1-16 , adjacent input	ts	
POWER REQUIREMENTS (WATTAGE)	51W	51W	51W
POWER REQUIREMENTS	Other: 110-240V 50/60Hz		
DIMENSIONS (W X D X H)	480 x 369 x 88 mm (18-7/8" x	14-1/2" × 3-1/2")	
NET WEIGHT	6.4 kg	6.7 kg	6.7 kg
INCLUDED ACCESSORIES	Power cable, Ferrite core, Ruber	stoppers (4), Operation Manual	

MLA8



8-CHANNEL MIC/LINE AMPLIFIER

EIGHT-CHANNEL MICROPHONE AND LINE PREAMPLIFIER INHERITS ACCLAIMED DM2000 HEAD-AMP TECHNOLOGY

- Unparalleled articulation and sonic quality descended from Yamaha's internationally acclaimed digital mixing consoles.
- 26 dB pad, adjustable 44 dB gain trim, 80 Hz high-pass filter, and phantom-power switch on each channel in a space-saving 1U design.
- Convenient color-coded control interface.
- XLR connectors are provided for audio input, while output connections can be made via either D-sub 25-pin or Euroblock connectors.
- The D-sub 25-pin connector is compatible with the MY8-AD96 8-channel Mini-YGDAI A/D card, providing seamless connectivity with Yamaha digital mixers.



MLA8

8-CHANNEL MIC/LINE PRE-AMPLIFIER

	MLA8
ANALOGUE INPUTS	8
ANALOGUE OUTPUTS	2 x 8 (splitter)
INPUT CONNECTORS	8x XLR
OUTPUT CONNECTORS	8x EuroBlock 8x D-Sub 25 pin



DA824



D/A CONVERTER

RELIABLE, HIGH-QUALITY 24 BIT/48 KHZ CONVERSION OF 8-CHANNEL DIGITAL AUDIO INPUT INTO ANALOG OUTPUT

- High quality 24-bit digital-to-analog converters
- Balanced XLR and 1/4" phone jack output connectors
- Maximum +4, +15, +18, or +24 dBm output level individually selectable for each channel
- Expansion slot supports optional mini-YGDAI cards for AES/EBU, ADAT and TASCAM digital format
- Word clock input and thru connectors
- Signal, nominal, and peak LED indicators

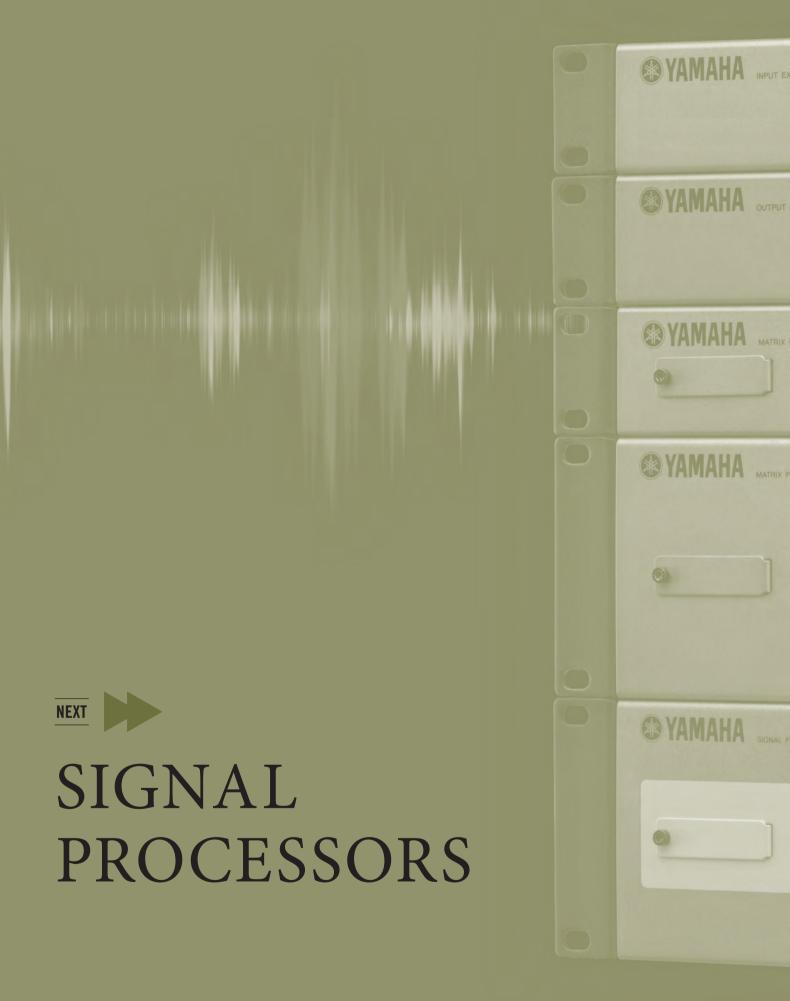


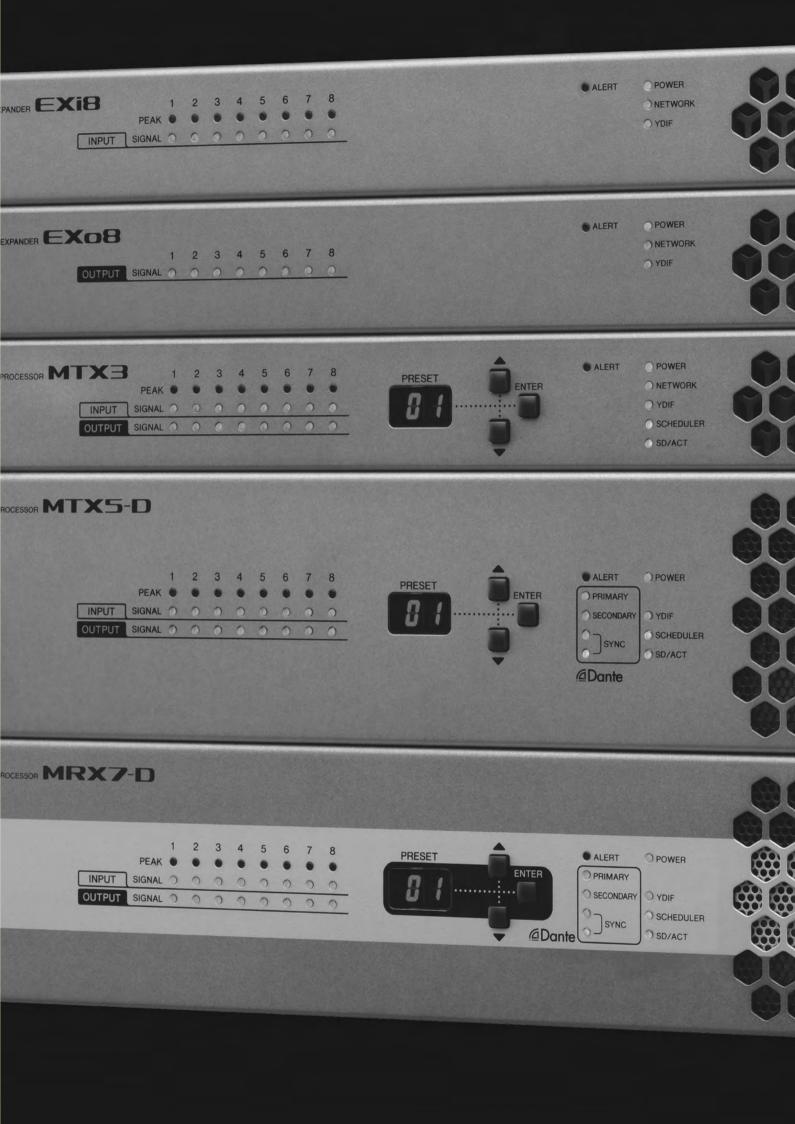


DA824

8 CHANNEL D/A CONVERTER

	DA824
ANALOGUE OUTPUTS	8 line level
INPUTS	MY8 compatible slot
CONNECTORS	outputs: XLR, jack D-Sub 9 pin (COM) BNC (Wordclock In, Out)





MTX SERIES





MTX – THE IDEAL DIGITAL SIGNAL PROCESSOR FOR SMALL TO MID-SIZE COMMERCIAL APPLICATIONS

Designed primarily for multi-zone commercial ainstallations, 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 conference 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 MTX-MRX Editor software applications. 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.



YDIF - AT THE HEART OF THE CIS SERIES LINE-UP

MTX processors feature the newly developed YDIF digital transmission format; a unique proprietary Yamaha technology that delivers 16ch audio and word clock transmission via standard CAT5 Ethernet cable. YDIF can be used for cascading multiple MTX Series or for feeding audio signal to XMV Series power amplifiers with very simple cabling up to 30 metres.









YDIF

CRESTRON ®



Control of MTX based systems can be offered through the WIRELESS DCP app for iOS and Android devices, through the PROVISIONAIRE TOUCH and PROVISIONAIRE TOUCH KIOSK apps for iPad and through the PROVISIONAIRE CONTROL app for Windows.

DCP SERIES

Up to 8 DCP series control panel units can be daisy-chained over distances of up to 200 meters via CAT5e Ethernet cable. Power is also supplied via the CAT5e cable, allowing control panels to be installed at any convenient locations.

MTX SERIES processors come equipped with a variety of programmable features designed to maximize the performance of sound systems in commercial installations. With a focus on reliability and worry-free operation, functions such as Feedback Suppressor can automatically locate and eliminate acoustic feedback, while Auto Gain Control maintains a constant output level when input signals vary. For ancillary applications or environments that require public speaking, MTX processors feature a Priority Ducker function which automatically attenuates the output level a specified amount when the input signal from a separate sound source exceeds its threshold – as well as an Ambient Noise Compensator which adjusts system gain to compensate for fluctuating background

noise. The Dan Dugan automixer (4ch on MTX3, 8ch on MTX5-D) provides world class automixing functionality. Combined with an onboard speaker processor for optimized speaker performance and sound quality, the MTX SERIES makes it easy to design and configure a complete audio

PGM1 PAGING STATION

system from input to output.

O YAMAHA

O YAMAHA

The PoE powered Dante enabled paging station PGM1 comes with with eight buttons and gooseneck microphone for use with MTX5-D and MRX7-D, and can be expanded to 24 buttons by adding up to two PGX1 expansion units.

MCP LCD WALL MOUNT PANEL

Up to 16 MCP1 PoE powered wall mount panels can be used with MTX and MRX7-D systems. The MCP1's dot matrix display and 6 buttons support multiple languages and dynamic labelling.

Download on the App Store



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US STANDARDIZED SIZE MODLES

EU STANDARDIZED SIZE MODELS







MATRIX PROCESSOR EQUIPPED WITH A VARIETY OF PROGRAMMABLE FEATURES DESIGNED TO MAXIMIZE THE PERFORMANCE OF SOUND SYSTEMS IN COMMERCIAL INSTALLATIONS.

- Inputs; 8 mono (mic/line), 2 stereo (line), 16digital (via YDIF*).
- Outputs; 8 mono (line), 16 digital (via YDIF*).
- I/O configuration can be expanded by Exi/Exo expanders via the YDIF* interface
- 16 Channel I/O on-board Dante network port for larger installations. (MTX5-D only)
- MY card slot offers further expandability and compatibility with other audio formats. (MTX5-D only)
- SD Card Slot for playback of MP3/WAV files stored on an SD Memory Card.
- Functions for worry-free operation; Feedback Suppressor, Auto Gain Control, Priority Ducker, Ambient Noise Compensator.
- Two useful digital processors "Reverb" and "Echo" for entertainment applications.
- Remotely control the volume and presets of multiple zones with DCP and MCP series wall mount digital controllers.
- Up to 24 zone paging with the PGM1 paging station (MTX5-D and MRX7-D only).
- Dan Dugan automixer: 4 channels on MTX3, 8 channels on MTX5-D.
- Wireless DCP for iPhone, iPod Touch and Android devices are available on the App store and Google Play store.
- ProVisionaire Touch, ProVisionaire Touch Kiosk iPad apps and the ProVisionaire Control Windows app provide free programmable graphic user interfaces.
- Equipped with Network port and GPI ports that offer compatibility with touch panel controllers such as AMX/CRESTRON®.
- Easy setup and parameter control with MTX-MRX Editor.



MTX5-D

MTX3

	MTX5-D	MTX3
MATRIX INPUT CHANNELS	34	26
MATRIX OUTPUT CHANNELS	16	8
MIC/LINE INPUTS	8 Euroblock	8 Euroblock
STEREO INPUTS	2 RCA Pin Jack	2 RCA Pin Jack
ANALOGUE OUTPUTS	8 Euroblock	8 Euroblock
MY CARD SLOT	1	-
YDIF I/O INTERFACE	2 x RJ45	2 x RJ45
DANTE I/O INTERFACE	2 x RJ45 (16/16)	-
GPI I/O	16/8 Mini Euroblock	8/4 Mini Euroblock
DCP INTERFACE	1 x RJ45	1 x RJ45
RS232/RS422	1 x D-Sub 9 pin	1 x D-Sub 9 pin
SD CARD SLOT	1	1
DIMENSIONS (W x H x D)	480 x 88 x 366 mm (19" 2U)	480 x 44 x 362 mm (19" 1U)
WEIGHT	6.3 kg	4.8 kg

*YDIF: the newly developed digital transmission format; a unique propriety Yamaha technology that delivers 16ch audio and word clock transmission via standard CAT5 Ether cable.



INPUT EXPANDER/OUTPUT EXPANDER

*** EXI8 INPUT EXPANDER**

EX18 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 an MTX processor via Ethernet cable.

* EXO8 OUTPUT EXPANDER

ANALOGUE OUTPUTS

INPUT CONNECTORS

YDIF I/O INTERFACE

WEIGHT

OUTPUT CONNECTORS

DIMENSIONS (W x H x D)



8 x Euroblock

480 x 44 x 351 mm (19" 1U)

2 x RJ45

4.3 kg

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EXO8 OUTPUT EXPANDERS feature 8 channels of DA converters that produce high quality analog audio by converting digital output from MTX Series processors via YDIF.



8

8 x Euroblock

480 x 44 x 351 mm (19" 1U)

2 x RJ45

4.3 kg

MTX-MRX EDITOR FOR MTX

MTX-MRX EDITOR allows you to design sound systems for small to mid-size installations built around MTX Series processors. With a workflow that closely emulates the actual physical configuration of an installation application, MTX-MRX Editor's wizard guides you through a simple yet thorough step process. What's more, in addition to the MTX Series, MTX-MRX Editor lets you incorporate EXi8 and EXo8 expanders, DCP series and MCP1 wall-mount controllers, PGM1 and PGX1 paging stations, and even XMV Series power amplifiers into your system and adjust parameter settings accordingly. With MTX-MRX Editor, you can design, configure and manage a complete installation audio system from microphones right through to speakers – with a single program.

THE WORKFLOW OF MTX-MRX EDITOR

DEVICE CONFIGURATION

By simply following the instructions of the MTX-MRX Editor wizard, you can easily configure a complete sound system comprised of MTX Series matrix processors as well as XMV Series power amplifiers, DCP series and MCP1 wall-mount controllers, Rio/Tio series i/o racks, PGM1 and PGX1 paging stations, or EXi8/ EXo8 expanders.



MTX SERIES PARAMETER SETTINGS

Once your system is configured you can set the parameters for the MTX Series. The Main window gives you an overview of each channel's settings and the Channel Edit window lets you adjust each of the selected channel's parameters in detail.



INPUT PROCESSING SETTINGS

By selecting GAIN/HPF/EQ you can adjust 3-Band PEQ settings for each input channel, as well as each microphone channels' HPF. GATE/COMP sets Gate and Compressor parameters and FBS/AGC features feedback suppressors that eliminate acoustic feedback, as well as the Auto Gain Control function that maintains a constant output level with input signals that vary in level.





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MATRIX/PRIORITY PROCESSING SETTINGS

In the matrix mixer, the input channels and output buses are arranged in a checkerboard configuration. You can adjust the group balance for each output bus, or use the faders to adjust the signal from all input channels to a specific matrix bus when Sends On Faders mode is enabled.

The signal from the matrix mixer is sent to 8 units of Priority Processor. Here, you can make detailed adjustments to the parameter settings of the Ducker function as well the Ambient Noise Compensator.

OUTPUT PROCESSING SETTINGS

After Priority Processor settings have been applied, signals are sent to output channels through the Router. Each output channel is equipped with a 4 Band PEQ, Delay and Speaker Processor. The Speaker Processor has stored presets for a range of Yamaha speakers allowing you to easily select the optimum settings for the speakers in your system. Settings for 4-Band PEQ and Delay can also be adjusted to match the audio output with the acoustic characteristics of various installation environments.



Other Control Annual Sector Control Annual S

EXTERNAL CONTROLLER SETTINGS

MTX-MRX Editor can also be used to configure the settings of external controllers. MTX processing functions can be easily assigned to the switches and knobs of DCP and MCP1 wallmounted controllers, PGM1 and PGX1 paging station, or to the dedicated PC/iPhone/ Android software application.



DAN DUGAN AUTOMIXER

Dan Dugan automixers are available to support conference applications. 4 channels can be used on MTX3, 8 channels can be used on MTX5-D.

MRX7-D







SIMPLE, FLEXIBLE CONTROL FOR COMPLEX, HIGH-CAPACITY SOUND SYSTEMS

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.



FEATURES FOR A WIDE RANGE OF INSTALLATION NEEDS

AEC (Acoustic Echo Canceller) for remote conferencing systems, automatic mixing for multiple microphone inputs, a speech privacy function that can mask conversations in hospital or corporate systems where confidential information must be protected, and more. The MRX7-D offers a comprehensive range of components that offer effective solutions for a variety of issues faced in today's audio installations.



LARGE SCALE SYSTEM SUPPORT

Built-in Dante digital audio networking capability makes it easy to set up systems of just about any scale while significantly reducing cabling cost and labor. Dante capable devices can be added to the system at any time, allowing flexible reconfiguration and expansion as needed.



FLEXIBILITY AND OPERATION EASE

As the scale and control requirements of an audio system grow, the number of devices required and overall complexity increase correspondingly. With the MRX7-D and dedicated MTX-MRX Editor software, input and output devices can be quickly arranged via a software wizard and internal MRX7-D processing components can be combined as needed. One simple software application provides everything needed for comprehensive system design and management.







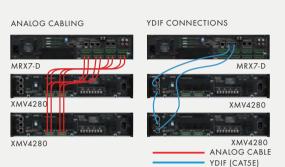
MRX7-D

AMPLE I/O AND EXPANSION CAPABILITY

- 8 mono microphone/line inputs and 2 stereo line inputs, 8 analog mono outputs
- 64 in/out Dante capacity supports large digital audio networks
- I/O expansion via YDIF connected MTX series matrix processor, EXi8 input expander, and EXo8 output expander units
- High expandibility offered by Mini-YGDAY card slot



DANTE – The MRX7-D, MTX series matrix processors, XMV series power amplifiers, and other Dante equipped devices can be easily connected via CAT5e or better Ethernet cables and gigabit switches to provide audio data networking in streamlined sound systems of any scale.



YDIF is an original Yamaha digital audio protocol that allows standard CAT5e Ethernet cable to be used for bidirectional transfer up to 16 channels of audio plus word clock signals over distances of up to 30 meters. It allows cascading of multiple MTX series units as well as signal transfer to XMV series power amplifiers via connections that are fast and simple to set up.



The MRX7-D features one Mini-YGDAI card slot that can accommodate cards supporting a variety of audio formats, and expansion by up to 16 I/O channels.



An SD memory card slot allows direct playback of MP3/WAV format audio files.

	MRX7-D
MEMORY BANK	PRESET: 50
SAMPLING FREQUENCY RATE	48kHz/44.1kHz
SIGNAL DELAY	1.9 msec (AD-DA @48kHz)
TOTAL HARMONIC DISTORTION*	0.05% (+4dBu, Gain:-6dB, 48kHz) 0.1% (+4dBu, Gain: +66dB, 48kHz)"
FREQUENCY RESPONSE	20Hz to 20kHz: max:+0.5dB, min:-1.5dB
DYNAMIC RANGE	107dB (typ. Gain:-6dB)
PHANTOM POWER	+48V
CROSSTALK (@1KHZ)	-100dB
HEAT DIFFUSION	55.9kcal/h max
POWER REQUIREMENTS	AC100V-240V 50Hz/60Hz
POWER CONSUMPTION	65W
DIMENSIONS WEIGHT	480W x 88H x 366Dmm 6.5kg
INCLUDED ITEMS	Power cord, Euroblock plugs (3-pin, tabbed) x16, Euroblock plugs (16-pin) x2, Cable Ties, Manual

BROAD SUPPORT FOR EXTERNAL CONTROLLERS

			CONTROLLE	K COMPAN	DILITI C			
	ProVisionaire Control	ProVisionaire Control KIOSK	ProVisionaire Touch	ProVisionaire Touch KIOSK	MCP1	PGM1	DCP	Wireless DCP
UI DESIGN	×		×					
CONTROL	×	×	×	×	×	×	×	×
SIGNAL PROCESSOR MTX, MRX SERIES	*	*	*	*	×	**	×	×
POWER AMP XMV SERIES	*	×	×	×				
POWER AMP MA/PA SERIES							×	
DIGITAL MIXER CL, QL, TF SERIES	×	×	×	×				
I/O DEVICE EXI/O, R SERIES	*	×	×	×				
MUSICCAST**			×	×				
BLU-RAY DISK PLAYER***			×	×				
DISKLAVIER****			×	×				
SUPPORT OS	Windows	Windows	iPad	iPad	Hardware	Hardware	Hardware	iPhone, iPod touch, iPad, Android

CONTROLLED COMPATIBILITY CHAPT

* MRX7-D, MTX5-D only ** CD-NT670, CD-NT670D, WXA-50, WXC-50, MusicCast compatible AV receiver

*** BD-A1060, BD-S681 **** Upright Pianos: YUS1ENST, YUS1Wn-ENST, YUS1MhC-ENST, YUS3ENST, YUS3Wn-ENST, YUS3MhC-ENST, YUS5ENST, YUS5Wn-ENST, YUS5MhC-ENST, Grand Pianos: C1X-ENST, C2X-ENST, C2XCP-ENST, C3X-ENPRO, C5X-ENPRO, C6X-ENPRO, C7X-ENPRO

DCP

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.









DCP1V4S

1 Volume & 4 Switch equipped Wall Mount Control panel for MTX Series Easy connection by CAT5 carrying RS485 + power Maximum 8 DCPs can be connected to 1 MTX Series

DCP4S 4 Switch equipped Wall Mount Control panel for MTX Series Easy connection by CAT5 carrying RS485 + power Maximum 8 DCPs can be connected to 1 MTX Series

DCP4V4S 4 Volume & 4 Switch equipped Wall Mount Control panel for MTX Series Easy connection by CAT5 carrying RS485 + power Maximum 8 DCPs can be connected to 1 MTX Series

DCH8

DCP Hub for star topology connection of up to 8 DCP panels



WIRELESS DCP

Wireless DCP allows remote control from Apple iOS devices or Android smart device. This is an easy, intuitive way to control volume, select presets, and control SD player operation from a convenient location.

* Wireless DCP can be downloaded from Apple's App Store and Google Play at no charge. App Store is a service mark of Apple Inc. Android and Google Play are trademarks of Google Inc.



MCP1/PGM1

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 support 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.



- 6 buttons can be assigned to any function
- MTX/MRX series functions (components) are specified via the MTX-MRX Editor
- Multi-language displays supported
- Four user levels for access management
- Up to 16 units can be connected per system
- PoE powered
- On and In-Surface mount adaptor supplied



PGM1



The **PGM1** is a Dante enabled paging station with 8 buttons and gooseneck microphone for use with Yamaha MTX5D and MRX7-D processors. By adding up to 2 PGX1 expansion panels, the PGM1 can be used to support up to 24 paging destinations. The microphone paging signal is available over the network through Dante.

- Dante network support
- PoE powered
- Up to 2 PGX1 Function Expansion panels can be added
- Up to 24 buttons can be assigned to any destination via the MTX-MRX Editor design software
- Up to 4 units can be connected per system

WR2100P

SWR2100P SERIES LAYER 2 SWITCHES

The SWR2100P series, the SWR2100P-5G (5 ports) and SWR2100-10G (10 ports) support PoE to connect the MCP1 and and PGM1 paging stations.

SWR2100P-5G

- Ports available for PoE power supply: 1-4
- Up link port: 5
- Maximum 30W can be supplied from each PoE-compliant port (All ports 70W)

SWR2100-10G

- Ports available for PoE power supply: 1-9
- Up link port: 10
- Maximum 30W can be supplied from each PoE-compliant port (All ports 70W)



SWR2100-10G



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PROVISIONAIRE TOUCH & PROVISIONAIRE CONTROL

FLEXIBLE DESIGN AND A VARIETY OF CUSTOM CONTROL PANELS

Yamaha provides a versatile range of remote control options to suit the various installation types as well as the customer's unique requirements. These range from simple wall panel remotes to fully customizable software based control for either iOS or Windows based platforms.





PROVISIONAIRE SERIES – ProVisionaire provides an easy, intuitive way to create original controllers that are ideally configured for the target installation. Multiple design pages are available so that different control panels can be provided for different audio zones and/or users, with presets and parameter settings optimized for each. No specialized programming skills are required. An intuitive interface makes it easy to create faders for volume control and switches for source selection.

PROVISIONAIRE CONTROL – ProVisionaire Control can operate a wide range of Yamaha PA equipment such as MTX/MRX series signal processors, CL/QL/TF series digital mixers, the he Rio and Tio series I/O racks and the XMV series power amplifiers. The software programmer can define which parameters from their selection of products are to be included in the ProVisionaire Control design, thus creating a completely customized control surface for their client. ProVisionaire Control offers a total Yamaha control solution.

ProVisionaire Control can be downloaded free of charge from the Yamaha website.



PROVISIONAIRE TOUCH

This handy iPad application allows MTX/MRX system control via a Wi-Fi network, also supporting XMV power amplifiers, Ex/R I/O units, CL, QL and TF-rack mixing consoles and MusicCast devices such as WXC50, Receivers, Blue Ray players and Disklavier Enspire. A variety of control widgets can be arranged as required to create custom control panel layouts that are ideally configured for individual systems.

ProVisionaire Touch can be downloaded from Apple's App Store at no charge.(Apple, iPad are trademarks of Apple Inc., registered in the U.S and other countries. App Store is a service mark of Apple Inc.).

AMX / CRESTRON®

ProVisionaire Touch

The MRX7-D includes RS232C and Ethernet connectors that facilitate connection to a variety of external controllers such as those manufactured by AMX and CRESTRON®.





MTX-MRX EDITOR FOR MRX

The **MTX-MRX EDITOR** software facilitates sound system design with a workflow that simulates standard installation procedure. An easy-to-use wizard lets you start by arranging the devices to be used in the desired layout, then processing components can be added wherever needed. MTX series matrix processors, EXi8 input expanders, EXo8 output expanders, XMV series power amplifiers, DCP series and MCP1 wall-mount controllers, PGM1 and PGX1 paging stations, can be added according to the needs and scale of the application. The **MTX-MRX EDITOR** provides comprehensive, intuitive tools for designing sound systems from input to output. The **MTX-MRX EDITOR** incorporates the MRX Designer software. It is freely configurable and allows simple to operate, yet very flexible and powerful audio systems to be created.



DEVICE LAYOUT WIZARD

In addition to the MRX7-D, the wizard allows MTX series matrix processors, XMV series power amplifiers, DCP and MCP1 digital control panels, Rio and Tio series i/o racks, PGM1 and PGX1 paging stations and EXi8/EXo8 input and output expanders to be added and arranged as needed.



COMPONENT CONFIGURATION

The MRX7-D features a versatile range of built-in processing components: faders, ON/OFF switches, matrix source selectors, GEQ, Dugan automatic mixing, speech privacy, echo canceller, and more. Simply select the required components and arrange them via a graphical interface.



EXTERNAL CONTROLLER SETUP

Parameters that will be available to the end user can be specified via the MTX-MRX Editor. A variety of external controllers can be accommodated to ideally match the requirements of each installation.

COMPONENT

- Ambient Noise Compensator
- Auto Gain Control
- Acoustic Echo Canceller
- Combiner (Room Combiner, Room Combiner plus Automixer, Delay)
- Dynamics (Compressor, Ducking, Gate, Limiter)
- EQ (GEQ,PEQ)
- Fader
- Feedback Suppressor *Notch type
- Filter (HPF, BPF, LPF)
- Meter

- Mixer (Dugan Automixer, Matrix Mixer)
- Oscillator
- Polarity
- Router
 - Source Selector
 - Speaker Processor
 - Speech Privacy
 - Paging
 - Audio detector
 - Delay
 - Feedback Suppressor (Pitch shift)

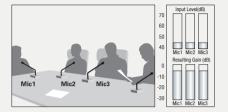


MRX7-D COMPONENTS

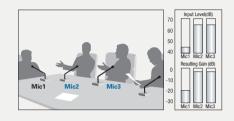


CONFERENCE ROOMS, BANQUET HALLS, HOSPITALS, AND MORE: BUILT-IN SOLUTIONS FOR DIVERSE NEEDS

DUGAN AUTOMIXER – PREVENT FEEDBACK AND UNWANTED PICKUP WITH MULTIPLE MICROPHONES



When nobody is speaking the input level at all microphones is low and the gain is equal. Rather than being muted, gain is distributed equally between all microphones. When one person is speaking the gain of that person's microphone is instantly increased to OdB while the gain of the remaining microphones is lowered. The same occurs when any other one person is speaking.

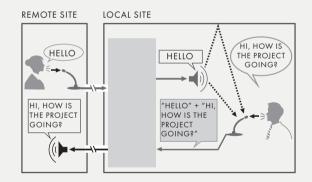


If two people speak simultaneously the gain distribution between the active microphones is adjusted to achieve consistent overall gain, while the gain of the remaining microphone is lowered.

ACOUSTIC ECHO CANCELLER - ELIMINATE REMOTE CONFERENCING ECHO FOR MAXIMUM INTELLIGIBILITY

In remote conferencing situations speech from the remote location emanating from the local speaker can be pickup up by the local microphone and returned to the remote location in addition to the local speech. This type of echo can significantly degrade the intelligibility of the sound heard at the remote location.

The Acoustic Echo Canceller effectively suppresses this type of unwanted echo, maximizing clarity and intelligibility. The sound received at the microphone is compared with the sound emanating from the speaker and analyzed. An adaptive filter is employed to subtract the speaker output from the microphone input, preventing the speaker output from being returned as an echo by the microphone. Please note that this function is not designed to eliminate the room's own acoustic reflections or reverberation.



SPEECH PRIVACY SYSTEM - KEEP CONFIDENTIAL INFORMATION IN THE CONFERENCE ROOM

The need to protect privacy in conference rooms and meeting areas, particularly in financial or medical institutions, is a growing concern. The Speech Privacy System uses an original sonic masking technique to prevent leakage of confidential information.

Rather than masking the conversation with high volume noise, an "information masking tone" synthesized from elements of human speech using an original process effectively camouflages spoken information. This approach allows the information to be protected by relatively low volume masking, helping to maintain the comfort of the conference environment.



Sound synthesized from human speech renders conversation unintelligible to eavesdroppers. This function does not silence the sound of the conversation.

DME



FREE CONFIGURABLE PROCESSORS

With unparalleled DSP power the Yamaha **DME64N** and **DME24N** Digital Mixing Engines offer customizable audio system solutions for a wide range of applications. These versatile mixing engines offer an impressive array of DSP components that can be combined and programmed to precisely accommodate just about any audio requirements – even in highly complex systems. Superior sound quality, generous DSP power, extensive scalability, and network capability – all supported by an intuitive interface – offer unprecedented freedom and efficiency for designing audio systems for installations and live sound.



DME24N



DME64N

	DME24N	DME64N
PROCESSING I/O CHANNELS	24	64
MIC/LINE INPUTS	8	-
LINE OUTPUTS	8	-
MY CARD SLOTS	1	4
GPI	8 in / 8 out	16 in / 16 out
MIDI	in / out / thru	in / out / thru
RS232C/RS422	D-Sub 9 pin	D-Sub 9 pin
USB	Yes	Yes
ETHERNET	100Mb	100Mb
DIMENSIONS (W x H x D)	480 x 101 x 412 mm (19" 2U)	480 x 145 x 412 mm (19" 3U)
WEIGHT	8 kg	9.5 kg



CP4SF

wall mount control panel for DME series: 4 faders + 4 switches + 4 LEDs. GPI connection through Euroblock I/O



wall mount control panel for DME series: 4 switches + 4 LEDs. GPI connection

through Euroblock I/O



CP1SF

wall mount control panel for DME series: 1 switch + 1 LED. GPI connection through Euroblock I/O

* ATTENTION: The hardware specification for DME Firmware V3.8x or later differs from the one for Firmware V3.5x or earlier. Therefore firmware V3.5x or earlier cannot be upgraded to V3.81 or later. Also, firmware V3.81 or later cannot be downgraded to V3.5x or earlier.

DME DESIGNER

A COMPONENT APPROACH TO VERSATILE SYSTEM DESIGN

Yamaha DME processors include a variety of components for an extensive range of applications. There are crossovers and other speaker processing essentials. Dynamics processors such as companders, compressors, and gates are indispensable for general audio processing. EQ is necessary in most applications, so a dazzling array of equalizers is provided. WAV players, event schedulers, and other functions provide advanced capabilities and operability for commercial installations. For effortless speech processing there's Auto Gain Control. A Room Combiner facilitates flexible zoning for applications such as hotels and banquet halls. And automated functions like the Program Ducker can be a huge advantage for live broadcasts. No matter what the application, there are DME components that will significantly enhance performance and efficiency.

MATRIX MIXER

A number of matrix mixers with up to 64 x 64 matrix mixing capability are included. There's also a Delay Matrix Mixer that provides delay parameters for each matrix point, enabling level control and time alignment in a single convenient component.

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INPUT MASTER

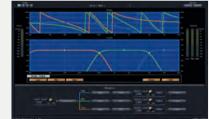
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64 X 64

SPEAKER PROCESSING

Speaker processing can be essential for achieving maximum performance from professional speaker systems as well as for delivering optimum sound quality throughout the listening area. DME processors include everything needed for precision speaker tuning and room matching: versatile crossover processors with APF (All Pass Filter for phase control), horn EQ, delay, limiter functions and more.



SPEAKER PROCESSOR



PEQ8

ROOM COMBINER

The Room Combiner component adds multiple audio signals to "virtually" combine the acoustic spaces of multiple rooms. Mono and stereo components that combine 4, 8, 12, or 16 rooms are available. This component provides an effective solution for situations in which several rooms or areas can be physically partitioned or combined to handle different types of events or numbers of participants. Sources and outputs can easily be switched as required, and the processing for multiple areas can be handled by a single DME unit.



ROOM COMBINER





AUTO GAIN CONTROL

AUTO GAIN CONTROL

This function automatically adjusts gain to maintain a consistent level even if the volume of a speaker's voice varies, for example. An indispensable function for meeting rooms and conferences.



PROGRAM DUCKER

PROGRAM DUCKER

The Program Ducker component features significantly longer attack and release times. Mono and stereo types can be flexibly configured to accommodate a wide range of applications. The Program Ducker offers all the versatility required for installations ranging from banquet halls to theme parks, while additionally providing camera tally link capability for broadcasting - a field in which the DME series is finding increasing acceptance.

SPX

Yamaha SPX EFFECTS are recognized as being some of the best and most "musical" in the industry. In the DME processing engines you have full-featured SPX multi-effect processors that are on a par with those provided in top-line Yamaha production and live sound consoles.

EVENT SCHEDULER & WAV FILE PLAYER

As their names imply the Wav File Player component plays specified Wav audio files, and the Event Scheduler can be used to trigger it at predefined times and repeating cycles. This could be used to play opening and closing themes for a retail outlet or mall, for example. Event Scheduler triggering is not limited to Wav File Player operation, however, and it could be used to schedule a GPI output that could start an external CD player or other device, for example. Programming the scheduler is easy, and can be done by the end user simple via wall-mounted remote control units or other remote controllers. Playback level and on/off switching can also be accomplished via the same type of controller.

COMPONENT LIST

CATEGORY	СОМРО	NENT	DME64N	DME24N
Processors	Remote Co	ntrolled Internal HA	ĺ	Yes
	Delay	Long, Short	Yes	Yes
	Dynamics	Gate, Ducking, Expander, Compander, Compressor, De-Esser, Limiter	Yes	Yes
	Filter	BPF, HPF, LPF, Notch	Yes	Yes
	EQ PEQ, GEQ		Yes	Yes
	Fader		Yes	Yes
	Pan	LR, LCR, 3-1, 5.1, 6.1	Yes	Yes
	Meter		Yes	Yes
Mixers	Simple Mix	ker	Yes	Yes
	Auto Mixer	· (II)	Yes	Yes
	Matrix Mix	er	Yes	Yes
	Delay Mat	rix	Yes	Yes
I/O functions	Analog I/C	D		Yes
	Cascade I/	/0	Yes	
	MY card I/	′O	Yes	Yes
	CobraNet	I/O (16IN/16OUT)		
	EtherSound	I/O (16IN/16OUT)		
Source	Oscillator		Yes	Yes
	Wav File P	layer	Yes	Yes
Routing functions	Source Sel	ector	Yes	Yes
	Router		Yes	Yes
Crossover	Crossover		Yes	Yes
	Crossover	processor (II)	Yes	Yes
Speaker Processor	Speaker pr	ocessor	Yes	Yes
Other functions	Acoustic Ed	cho Canceller	Yes	Yes
	Room Com	biner	Yes	Yes
	Feedback s	suppressor	Yes	Yes
	Ambient N	oise Compensator	Yes	Yes
	Program D	ucker	Yes	Yes
	Audio Dete	ector	Yes	Yes
	Auto Gain	Control	Yes	Yes
	Event Sche	duler	Yes	Yes
	SPX		Yes	Yes







The **MY4-AEC** card provides 4 channels of acoustic echo cancellation for remote conferencing using Yamaha's DME 24N / DME 64N digital mixing engines and the MTX7-D and MTX5-D Matrix Processor. As well as the echo cancellation function, the **MY4-AEC** card also offers a noise reduction function which removes steady-state background noise such as air conditioning and projector fans etc. The card also has a feedback suppressor with 42 notch filters per channel to aid the suppression of feedback in PA systems. Any of the 8 internal mic/line inputs of the DME24N can be routed to the **MY4-AEC**. In the case of the DME64N, any of the MY card slots or CASCADE bus can route to the **MY4-AEC**. The AES/EBU inputs and outputs(with sample rate conversion) can route to either the **MY4-AEC** or be used independently in a DME design.

*For datails about Yamaha AEC technology, please refer to www.yamahaproaudio.com



High Performance Conference System Solution with Yamaha AEC technology*

- 4ch Acoustic Echo Canceller
- Maximum echo time delay (Tail length) 400ms
- High definition sound (frequency range 20Hz-20kHz)
- 4ch far-end input for multipoint meeting
- 4ch Noise Reduction
- 4ch Feedback Suppressor
- Additional 4ch AES/EBU I/O with SRC

SAMPLING FREQUENCY	44.1kHz, 48kHz, 88.2kHz, 96kHz (-10%, +6%)
DSP FUNCTIONS	adaptive AEC Feedback Suppressor Ambient Noise Compensation Matrix Mixer
CONNECTORS	AES/EBU Euroblock (4in/4out)
COMPATIBLE EQUIPMENT	DME24N, DME64N firmware 4.0 or higher
FREQUENCY RANGE	20Hz - 20kHz
ARRIVAL TIME OF DIRECT SOUND	120ms maximum
ECHO TIME DELAY	400ms maximum
ECHO CANCELLATING CAPACITY	60dB maximum
NOISE REDUCTION	17dB maximum

MY4-AEC

*** ACOUSTIC ECHO CANCELLER**

The balance between echo reduction level and sound quality can be easily evaluated and maximized during installation. Echo suppression is maximized by setting the Distance parameter to reflect the physical distance between microphone and loudspeaker.

* MATRIX MIXER

Multi-point conference systems are easily incorporated using the Matrix Mixer which allows up to 4 far-end inputs for each channel of AEC.

*** FEEDBACK SUPPRESSOR**

There are 42 notch filter bands whose width and depth parameters can be adjusted for best gain before feedback depending on the room acoustics. Each band will analyze suppression point automatically.

*** NOISE REDUCTION**

Any constant and disturbing fan or HVAC noise can be attenuated using the Noise Reduction feature.

GENERAL SPECIFICATIONS

- Compatible Hosts DME24N, DME64N (V4.0 or later software is required), MTX5-D, MTX7-D
- Sampling Frequency 44.1kHz, 48kHz, 88.2kHz, 96kHz (-10%, +6%)

DIGITAL INPUT/OUTPUT CHARACTERISTICS

TERMINAL	FORMAT	AUDIO DATA LENGTH	LEVEL	CONNECTOR
AES/EBU In 1/2, 3/4	AES/EBU	24bit	RS422	Euroblock
AES/EBU Out 1/2, 3/4	AES/EBU (Professional use)	24bit	RS422	Euroblock

AUDIO

SIGNAL PROCESSING	Adaptive Echo Canceller, Feedback Suppressor Noise Reduction, Matrix Mixer
FREQUENCY RANGE	20Hz to 20kHz
ARRIVAL TIME OF DIRECT SOUND	120ms
ECHO TIME DELAY	400ms maximum
ECHO CANCELLING CAPACITY	60dB maximum
NOISE REDUCTION	17dB maximum



SP2060



DIGITAL SPEAKER PROCESSOR

ADVANCED SPEAKER PROCESSING PERFORMANCE IN A COMPACT 1U UNIT THAT IS IDEAL FOR LIVE SOUND OR INSTALLATIONS

- All of the functionality required for most speaker processing applications in a compact 1U unit.
- An impressive array of built-in functions: gain, delay, PEQ, comp, crossover, and limiter.
- All-Pass Filter precisely controls phase without affecting gain.
- Two analog inputs, six analog outputs, and two AES/EBU digital inputs.
- Original audio processing LSI provides full 24-bit, 96-kHz processing capability for outstanding sound quality with a dynamic range in excess of 110 dB.
- Detailed programming can be accomplished using the DME Designer application software running on a personal computer.
- Ethernet port and comprehensive panel interface.
- Optimized for Yamaha Installation Series Speakers.





SP2060

% 1U

	SP2060
SCENE	99 (PRESET: 12, USER: 87)
SAMPLING FREQUENCY RATE	Internal: 96kHz External: Normal rate: 44.1kHz, 48kHz (±0.1%) Double rate: 88.2kHz, 96kHz (±0.1%)
SIGNAL DELAY	Less than 761µs INPUT to OUTPUT (@fs=96kHz)
total harmonic distortion	Less than 0.05%, 20Hz to 40kHz @+4dBu into 600Ω (@fs=96kHz) Less than 0.007%, 1kHz @+22dBu into 600Ω (@fs=96kHz)
FREQUENCY RESPONSE	20Hz - 20kHz, +0.5, -1.0dB, @+4dBu into 600Ω (@fs=96kHz)
DYNAMIC RANGE	106dB typ. AD+DA
HUM & NOISE LEVEL (20HZ TO 20KHZ), RS=150Ω	-82dBu residual noise
CROSSTALK (@1KHZ)	-80dB input to output
POWER CONSUMPTION	30W
DIMENSIONS (W x H x D)	480 x 44 x 360.2mm (18.7" x 1.75" x 14.1"), 1U
WEIGHT	4.2kg (9.7lbs)

SPX2000



LATEST GENERATION SPX EFFECT UNIT WITH 24-BIT 96-KHZ PROCESSING AND ADVANCED REV-X REVERB ALGORITHMS

- Superb sonic quality with 24-bit/96-kHz processing throughout.
- 96-kHz DSP LSI with 32-bit internal processing (58-bit accumulator).
- 24-bit, 128-times oversampling AD and DA converters achieve 106 dB dynamic range and flat response from 20 Hz to 40 kHz at the 96-kHz sampling rate.
- REV-X reverb programs deliver the richest reverberation tone and smoothest decay available.
- In addition to a large range of ambience programs, including many that use the acclaimed REV-X reverb algorithms, the SPX2000 includes popular SPX programs such as gate reverbs, delays, pitch effects, modulation and other special effects.
- Other advanced algorithms such as Multi-band Dynamic Processors are inherited from the DM series Digital Production Consoles
- Professional analog and digital audio I/O and control connectors.
- SPX2000 Editor software provides a common operating environment and interface for the SPX2000 and Yamaha digital mixing consoles.





(REV-X

SPX**2000**

SPX2000



	SPX2000
DIGITAL INPUT	1 × XLR (AES/EBU, AES-3)
ANALOGUE INPUT	2 x XLR + 2 x jack
DIGITAL OUTPUT	1 x XLR (AES/EBU, AES-3)
ANALOGUE OUTPUT	2 x XLR + 2 x jack
USB	Yes
MIDI	in / out / thru
WORDCLOCK INPUT	1 x BNC
DIMENSIONS $(W \times H \times D)$	480 x 44 x 360 mm (19" 1U)
WEIGHT	4 kg



EFFECT PROGRAM NO. LIST

NO.	EFFECT NAME	CLASSIFICATION	LCD COLOR
1	REV-X LARGE HALL	HALL	CYAN
2	REV-X MED HALL		0.7.1.1
3	REV-X SMALL HALL		
4	REV-X TINY HALL		
5	REV-X WARM HALL		
6	REV-X BRITE HALL		
7	REV-X HUGE HALL		
8	AMBIENCE		
9	STEREO HALL		
10	VOCAL CHAMBER		
11	BRIGHT HALL		
12	BREATHY REVERB		
13	CONCERT HALL		
14	REVERB FLANGE		
15	REVERB STAGE		
16	REV-X VOCAL PLT	PLATE	
17	REV-X BRIGHT PLT		
18	REV-X SNARE PLT		
19	VOCAL PLATE		
20	ECHO ROOM 1		
20	ECHO ROOM 2		
21	PRESENCE REVERB		
23	ARENA THIN PLATE		
24			
25	OLD PLATE		
26	DARK PLATE	POOL	
27	REV-X CHAMBER	ROOM	
28	REV-X WOOD ROOM		
29			
30	REV-X LARGE ROOM		
31	REV-X MED ROOM		
32	REV-X SMALL ROOM		
33	REV-X SLAP ROOM		
34	FAT REFLECTIONS		
35	BIG SNARE		
36	BAMBOO ROOM		
37	REFLECTIONS STONE ROOM		
38 39	CONCRETE ROOM		
39 40	REVERSE PURPLE	GATE REVERB	
40		OATE REVERD	
41	FULL METAL GATE REVERSE GATE		
42	DRUM MACH. AMB S	DRUM MACHINE	
43	DRUM MACH. AMB S	REVERB	
		NLVERD	
45	ELECT. SNR PLAT	DELAYS	
46	MONO DELAY	DELAYS	WHITE
47	120 BPM MONO DDL		
48	120 BPM X-DDL		
49	STEREO DELAY		
50	DELAY LCR		
51	KARAOKE ECHO		

NO.	EFFECT NAME	CLASSIFICATION	LCD COLOR
52	GOOD OL	PITCH EFFECTS	MAGENTA
50	P.CHANGE		
53	VOCAL SHIFT		
54	STEREO PITCH		
55	PITCH SLAP		
56	HALO COMB		
57	GRUMPY FLUTTER		
58	ROGER ON THE 12		
59	BOTTOM WHACKER		
60	VOICE DOUBLER		
61	SYMPHONIC	MODULATION	
62	REV+SYMPHONIC		
63	DETUNE CHORUS		
64	CHORUS & REVERB		
65	BASS CHORUS		
66	STEREO PHASING		
67	CLASSY GLASSY		
68	SILKY SWEEP		
69	UP DOWN FLANGE		
70	TREMOLO		
71	ROTARY SPEAKER		
72	auto pan		
73	PHASER		
74	RING MODULATION		
75	MOD FILTER		
76	dyna flange		
77	dyna phaser		
78	dyna filter	FILTER	YELLOW
79	M. BAND DYNA		
80	MULTI FILTER		
81	FILTERED VOICE		
82	DISTORTION	DISTORTION	
83	AMP SIMULATOR		
84	DIST -> FLANGE		
85	DIST -> DELAY		
86	REV -> CHORUS	MULTIPLE	
87	REV+FLANGE		
88	REV -> SYMPHONIC		
89	REV -> PAN		
90	DELAY+ER 1		
91	DELAY+ER 2		
92	DELAY -> ER 1		
93	DELAY -> ER 2		
94	DELAY+REV		
95	DELAY -> REV		
96	reso drone		
97	FREEZE	SAMPLING	

Channel: FOLEY

NEXT

MUSIC AND POST PRODUCTION



NUENDO8



ADVANCED POST AND AUDIO PRODUCTION SYSTEM









ADR

MUSIC AND POST PRODUCTION

FDITING

- The world's most innovative audio post-production environment, featuring industry-leading tools for TV, film, advertising and game audio productions
- World-class mixing console with up to 13.1 support, including Channel Strip, automatable mix buses, VCA fader support and a fully integrated loudness measurement and processing toolset
- ReConform: Integrated re-conforming solution for automatic audio-to-picture alignment, including preview functions
- Game Audio Connect provides a direct connection with the Audiokinetic Wwise game audio middleware, including integration with Perforce
- Professional ADR taker and foley solution for voice and foley recording, including video (text) overlay
- Advanced multitrack audio-to-picture editing, providing the best audio editing environment to date, including TrackVersion playlists and video-follows-audio editing
- Automated Batch Export for exporting several versions of a mix in one go, including many user-definable attributes
- Cutting-edge plug-in collection features more than 70 high-class VST 3 plug-ins, including EQs, reverbs, surround panners, compressors and more
- State-of-the-art post-production environment comes with MediaBay content management, monitoring matrix, a superior automation system for film and TV production plus networking capabilities
- Full system integration with the Yamaha Nuage post-production system, seamless connection to the Nuendo SyncStation synchronizer and EuCon support
- Immersive 3D surround panner supporting native Dolby Atmos mixing





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MIXER HISTORY

IOSONO ANYMIX PRO

CHANNEL SETTINGS



LOUDNESS METER

VOXENGO CURVEEQ



ADR TAKER

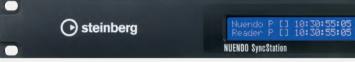


BRICKWALL LIMITER



DOLBY ATMOS PANNER





NUENDO SYNCSTATION is a hardware synchronizer that facilitates sample-accurate timecode synchronization between audio and video equipment. All Nuage interfaces include BNC and AES/EBU connectors for direct connection to Syncstation, as well as full support for the sample-accurate VST System Link.

- Sample-accurate time code synchronization when used with Nuendo.
- Allows MTP synchronization with many other DAWs (restrictions may apply according to DAW specifications and version).
- Cross-platform support for Nuendo SyncStation together with Nuendo on Mac OS X, Windows 7, Windows Vista and Windows XP
- * MORE DETAILS ABOUT NUENDO AND NUENDO SYNCSTATION CAN BE FOUND AT THE STEINBERG WEB PAGE: HTTP://WWW.STEINBERG.NET

NUAGE



Dante



- * NUAGE FADER
- * NUAGE MASTER
- * NUAGE I/O (16A•16D•8A8D)
- * NUAGE WORKSPACE (LARGE SMALL)

*Custom desk, monitor displays, and keyboard are sold separately by third-party vendors.



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WEINER WEINER

1105500 41		NICOU AIG	INIOSOO ADBO	NICSCO DIC	IT IS SOUTED	1103500 5111	Í.
central controller	16 fader panel	16 analogue I/O	8 analogue, 8 AES/EBU I/O	16 AES/EBU	large workspace panel	small workspace panel	



At the heart of the Nuage system is Steinberg Nuendo, an audio post production DAW that is a favorite with sound designers, mixing/recording engineers, and editors for its blazing editing speed, efficiency enhancing convenience, unrivalled sonic quality, and rock-solid stability. The latest version of Nuendo adds VCA faders, support for game audio middleware, and other advanced features that provided an enhanced workflow.

SPEED AND CONVENIENCE – ENHANCED OPERATION

Nuage has always been more than just a DAW controller because of its deep integration with

high-level DAW software, but Nuage version 1.8 goes even further with improved access to a variety of important functions. The following are a few of the improvements included in the version 1.8 update that contribute to greater control and efficiency.

- Automation mode setup and switching from the Nuage Master Channel Control page.
- Multi Function Knob click level and click pan can be changed from the Nuage Master
- Control Room and Cue pages. Plug-ins can be inserted in the Control Room buses.
- Section Control and Channel View Control can be customized. (for VCA assignments, etc.)
- Support for the JL Cooper eBOX and eBOX GP18 GP1 interfaces. Remotely controllable from the Nuage Master.

IMPROVED AVID PRO TOOLS CONTROL

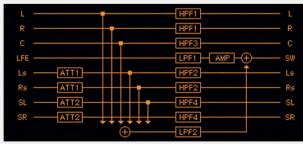
Nuage can switch between as many as three connected DAWs. Of course those DAWs can be Steinberg Nuendo or Cubase, but with the dedicated NUAGE PT Bridge driver Avid Pro Tools installations can be used as well. In response to requests from Pro Tools users, Nuage version 1.8 expands the functionality of the NUAGE PT Bridge driver for even greater control and convenience.

- Using the Plug-in Panel shown on the monitor display as a guide, the Nuage Fader Multi Function Knobs can be used for Pro Tools plug-in control.
- The twelve Nuage Master User Assignable Buttons can be assigned to Pro Tools shortcut keys, allowing the user to use familiar shortcuts directly from the Nuage system.
- Supported versions of Pro Tools are: Pro Tools 10,11 and Pro Tools HD 10,11 (Mac versions only).
- A maximum of two Pro Tools instances can be connected to a Nuage system.

NUAGE - POST PRODUCTION SYSTEM

Digital audio workstations, controllers, interfaces: professional post-production capabilities can only be realized when all components work together in perfect harmony. **NUAGE** Integrated Audio Production System brings it all together in a collaboration that defines new standards of quality and workflow efficiency for virtually every aspect of the production process. Yamaha control and interface hardware seamlessly integrates with Steinberg Nuendo DAW software in a purpose-built system that offers unprecedented productivity and flexibility as well as premium audio quality. Discerning engineers and artists who already depend on the sonic quality and intuitive workflow of Steinberg's native-processing Nuendo DAW will be pleased to learn that Nuendo 6, included with Nuage, takes that performance to a new level. And for maximum system versatility the dedicated Yamaha control surface and audio interface hardware is modular, so you can easily create a custom configuration that ideally matches your application. Nuage for mixing, editing, dialog replacement in audio post production applications. Top-class hardware and software in perfect harmony at last.

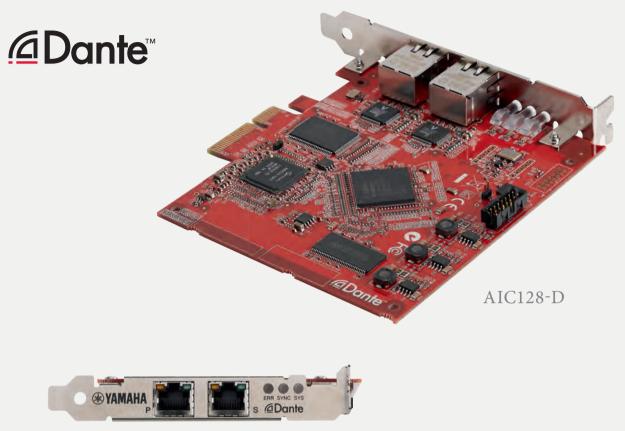




SURROUND STUDIO MONITOR SECTION



DANTE ACCELERATOR



ULTRA-LOW LATENCY AND SOLID RELIABILITY WITH HIGH CHANNEL COUNTS

The **DANTE ACCELERATOR** audio interface card can be installed in the computer running the Nuendo DAW to provide extra low-latency transfer of as many as 128 simultaneous channels of audio data, for a distinct performance advantage when communicating with Nuage I/O units. The **DANTE ACCELERATOR** card also features a secondary port that can be used to provide redundant connections for failsafe reliability.



GENERAL SPECIFICATIONS

	AIC128-D
PCI EXPRESS CARD	Compatible with PCI Express X4 slots v1.0 and above
PCI EXPRESS CARD	Compatible with PCI Express X4 slots v1.0 and above
AUDIO INTERFACE	ASIO (Windows 7/8.1/10) or Core Audio (OS X 10.7.5/10.8/10.9/10.10/10.11*1)
AUDIO CHANNELS	256 channels (128 in/128 out @ 96 kHz or less) 128 channels (64 in/64 out @ 176.4 kHz or more)
SUPPORTED SAMPLE RATES	44.1, 48, 88.2, 96, 176.4, and 192kHz
PULL-UP/PULL-DOWN	+4.1667, +0.1, -0.1, and -4.0 %
SAMPLE BIT-DEPTH	24 bit
DANTE NETWORK INTERFACE	Gigabit (1000Mbps; 1Gbps) Ethernet RJ45 port x2

SYSTEM REQUIREMENT

	WIN	MAC
OS	Windows 10/8.1/7 SP1 (64-bit)	Mac OS X 10.7.5/10.8.x*2/10.9.x/10.10.x/10.11.x
PC	 32-bit: Intel Core i5 / Intel Core i7 (2nd Generation "Sandy Bridge" Core i7 or later recommended 64-bit: Intel Core i5 / Intel Core i7 (2nd Generation "Sandy Bridge" Core i7 or later recommended 	Mac Pro (Early 2009) or later
MEMORY	8GB or more	6GB or more
HDD	64M Cache (recommended) 7200rpm	64M Cache (recommended) 7200rpm
PCIE SLOT	x4 lane or above	x4 lane or above2

² The Dante Accelerator must be installed in slot 2(directly above the graphic card)

³ However, PT Bridge is supported for up to 10.12.x.

¹ Also compatible with OSX 10.6.8 for use without Nuage or Nuendo without Nuage or Nuendo when using Dante Accelerator Driver v1.0.1 or earlier for Mac. Pull up/down function for the audio sample rate is not supported in OSX 10.8. Noise may occur when pull up/down function is used. Please use OSX 10.7 if you need to use the pull up/down function

NUAGE & NUENDO

CONFIGURATIONS

* SMALL SCALE SETUP WITH 1X NUAGE FADER





* SMALL SCALE SETUP WITH 1X NUAGE FADER & 1X NUAGE MASTER



* MID SCALE SETUP WITH 2X NUAGE FADER & 1X NUAGE MASTER



* LARGE SCALE SETUP WITH 3X NUAGE FADER & 1X NUAGE MASTER



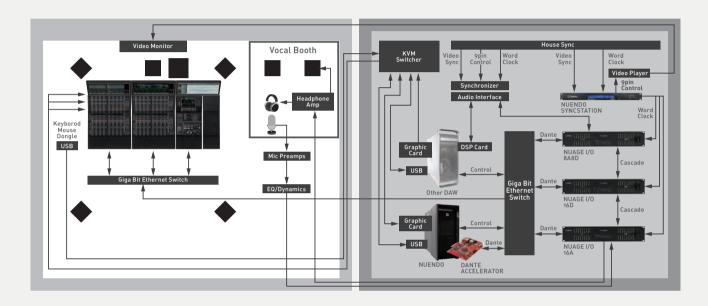


* SMALL SCALE SETUP WITH 1X NUAGE MASTER

SYSTEM EXAMPLE

* CONTROL ROOM

* MACHINE ROOM



MMP1



Audio production is evolving rapidly. Many functions that were previously handled by the mixing console are now built into high-performance DAW systems. But even today's most practical in-the-box mixing systems require a number of peripheral devices for full studio functional-

ity, including some sort of monitor controller. Immersive audio formats have made the requirements for monitor control and management even more varied and complex. Yamaha has applied a great deal of time and effort to developing



monitoring environments and studio systems for current and future audio production needs, and has come up with an ideal onestop solution. The **MMP1 STUDIO MONITOR MANAGEMENT SYSTEM** offers all essential audio processing functionality for DAW-based production environments in one streamlined, versatile, great-sounding, space-saving unit that provides efficient overall system management at surprisingly low cost. The heart of the **MMP1** is a 40 x 36 channel monitor matrix^{*} that can handle stereo, 5.1 channel, and 7.1 channel formats with ease, while also providing plenty of capacity for the rapidly growing array of immersive audio formats such as Dolby Atmos. To accommodate the widest possible range of installations, the **MMP1** includes eight cue outputs and eight studio speaker outputs, with two talkback systems that function with those outputs. Comprehensive, integrated management of monitoring, cue, and talkback functions allows this powerful matrix to efficiently connect and route all essential audio throughout the studio. Two software applications contribute to stressfree MMP1 setup and operation. The **MMP1 Editor*** for Windows and Mac computers provides all-function access for everything from system design through file management to day-to-day operation. A setup wizard makes setup fast, easy, and precise. When the system is up and running the MMP1 Controller** app for iPad offers convenient, intuitive control of essential parameters.

FEATURES



COMPREHENSIVE MONITOR CONTROL

Up to 32 channels of monitor processing supports formats from stereo to immersive audio, plus comprehensive management of studio communication and audio devices.

|--|

OUTSTANDING SPEAKER MANAGEMENT PRECISION

Time alignment delay, EQ, and other final-stage audio output adjustment tools are provided on all channels.



POST-PRODUCTION RECORDING SUPPORT

In addition to an ample selection of talkback, cue, and GPI functions, commentary functions provide extended voiceover recording support.



FLEXIBLE BASS MANAGEMENT

Bass management using standard or FIR crossover filters can be flexibly configured within a 32 x 32 channel speaker matrix.



FULL-FEATURED CHANNEL PROCESSING

Eight channel strips feature four types of EQ, VCM vintage compressors, and more, for extensive processing capability in a remarkably compact space.

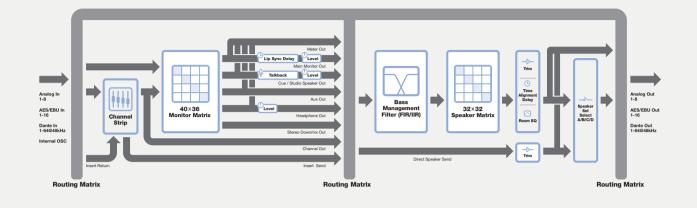


The MMP1 can be controlled directly from the monitor section of Yamaha's NU-AGE DAW system, supporting monitor source selection and level control, mute and dim functions, talkback, user-assignable functions, and channel strip control.

- * The MMP1 Editor can be downloaded from the Yamaha Pro Audio website.
- ** The MMP1 Controller app can be downloaded from the Apple App Store.



DSP BLOCK DIAGRAM



SPECIFICATIONS



MMP1

	MMP1
INPUTS	Analogue Inputs 1-8: D-SUB 25P (female) Digital AES/EBU Inputs 1-16: D-SUB 25P (Female)
OUTPUTS	Analogue Outputs 1-8: D-SUB 25P (female) Digital AES/EBU Outputs 1-16: D-SUB 25P (Female)
NETWORK	Dante 64ch@48kHz, 32ch@96kHz, 16ch@192kHz: Ehtercon x2
CONTROL I/O	16 GPI Inputs, 10 GPI Outputs: D-SUB 25P (Female)
Monitor matrix	(32 inputs + 8 DSP channel inputs) x (32 outputs + stereo downmix outputs + stereo headphone outputs) @44.1, 48, 88.2, and 96kHz
	20 inputs x 20 outputs @176.4 and 192 kHz
SPEAKER MATRIX	32 inputs x 32 outputs @44.1, 48, 88.2, and 96kHz
SPEAKER MAIRIA	16 inputs x 16 outputs @176.4 and 192 kHz
BASS MANAGEMENT CROSSOVER FILTER	LPF 80Hz / HPF 80Hz
TIME ALIGNMENT DELAY	Up to 30msec
ROOM EQ	6-band parametric EQ
LIP SYNC DELAY	Up to 50msec
CHANNEL STRIP	Comp260, EQ (Precise, Aggressive, Smooth, Legacy)
SCENES	20 Scenes
SNAPSHOTS	20 Snapshots



NEXT

ACTIVE FIELD CONTROL

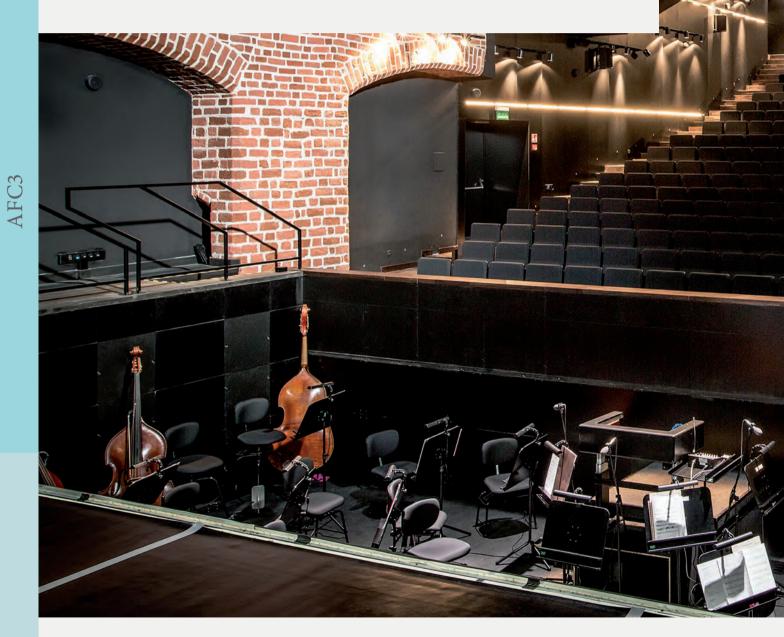


AFC3

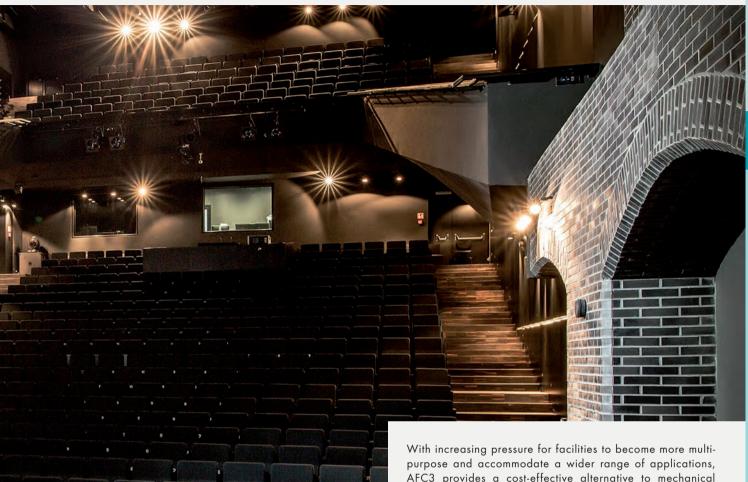


For over 125 years Yamaha craftsmen have created some of the world's finest musical instruments. Superior sound quality has always been the driving force behind Yamaha products and systems. Whether manufacturing instruments, developing state-of-the-art audio technologies or designing performance halls and theatres, the company is always seeking new ways to deliver the best possible listening experience.

First implemented by Yamaha in 1985, Active Field Control (AFC) is an acoustic conditioning system designed to adjust and enhance the architectural acoustic characteristics of facilities such as performing arts venues, houses of worship, theatres and concert halls, while maintaining the natural sonic characteristics of the space. AFC3 represents the third generation of innovative AFC systems from Yamaha, the most trusted name in audio.









* OPERA NA ZAMKU, SZCZECIN, POLAND

With increasing pressure for facilities to become more multipurpose and accommodate a wider range of applications, AFC3 provides a cost-effective alternative to mechanical means of modifying room acoustics. It is a truly scalable solution which can be installed in a wide range of venues, including concert halls, opera houses, theatres, cultural community centres, small churches, auditoriums and even sports venues and stadiums. Acoustics changes can be made at the push of a button, allowing the performance environment to be adjusted almost instantly. Yamaha AFC systems are currently installed in over 100 facilities worldwide.

As a 'hybrid regenerative' system, AFC3 is able to deliver the same high quality acoustics to both the onstage performers and the audience. This is crucial where performers and listeners need to be in the same acoustic space - meaning they not only have a visible connection, but also an audible one. To support such a close connection, not only does the quality of the early reflections and the diffuse reverberation field need to be uniformly excellent, but the response of the system to any sound source (on the stage, in the orchestra pit and in the audience) also needs to be exactly as it would in an original acoustic environment. AFC3 offers all this and more.

WHAT IS AFC?

ACTIVE FIELD CONTROL is an acoustic enhancement system that is used to improve or enhance the architectural acoustic characteristics of a room and optimise reverberation, while all the time preserving that room's natural acoustic 'signature'. An AFC system consists of multiple microphones, Digital Signal Processors (DSP), power amplifiers and loudspeakers. AFC uses a 'hybrid regenerative' technique that adjusts acoustic conditions by using acoustic feedback combined with DSP reverberation and early reflection algorithms. This makes AFC different from, and superior to, other techniques that are based on pure feedback or the dedicated use of digital reverbs to simulate room characteristics. Yamaha was the first to apply the hybrid regenerative technique to a commercial product range in 1987, developed as a unique collaboration between engineers from Yamaha's digital processing research and development laboratories with acousticians from Yamaha's spatial audio department, who had long experience in the architectural design of concert halls in Japan.



ACOUSTICS

Yamaha AFC3 is not a PA system. Instead, it fully respects the original acoustics, applying the hybrid regenerative technology to shape both the sound field and the response to sound sources in the acoustic space in a completely natural way. This is why AFC3 is being applied in concert halls and opera houses that need their acoustics to be improved – sometimes a subtle touch-up, in other cases a more extensive enhancement, for example after a renovation. In that case, the architect has more design freedom in shaping the hall and achieving usage and cost efficiency.





VARIABILITY

AFC3 systems are highly variable. Firstly in system scope; they can be applied in very small rooms such as rehearsal rooms and conference rooms, using just a few microphones and loudspeakers, up to very large venues such as opera houses and concert halls with thousands of seats - in which case a system may comprise several hundred loudspeakers. Secondly, in enhancement scope; AFC3 can support a broad range of reverberation time enhancement ratios. These range from small enhancements for concert halls and opera houses that need a delicate 'touch up' in their reverberation time and acoustic connection between the stage, orchestra pit and hall, all the way through to full multipurpose venues designed to support cinema, amplified music, a philharmonic orchestra or even a church organ. In these cases, variability of reverberation time may easily span a range of 0.5 seconds up to 3 seconds, with several easily selectable presets that all support a fully natural sound and response.



RELIABILITY

Reliability is a fundamentally important quality, as acoustic enhancement systems are installed as part of the fabric of a venue. A system's life expectancy needs to span decades, with many performances to be enjoyed by critical audiences listening to world famous soloists and orchestras - therefore nothing must go wrong. Don't worry, AFC3 is built on rock solid hardware, using components that have proven their reliability for more than 50 years in the global professional audio market. This is possible because AFC3 uses the same hardware platform as Yamaha's sound reinforcement digital signal processors and digital mixing consoles - a field where Yamaha is the market leader, with millions of units sold. As a result of Yamaha's rigorous, fully ISO9001-certified manufacturing quality control, the reputation of its products for both quality and reliability is unique.

OPEN PLATFORM

The AFC3 infrastructure is based on extremely powerful DSP engines that can support any audio functionality as well as AFC3. This means that AFC3 systems can easily share their amplifiers and loudspeakers with other systems, such as mixing consoles and immersive sound systems like Dolby 5.1 and 7.1 Cinema Surround, Dolby Atmos and BARCO Iosono. Sharing multi-channel functionality can be done through Dante and AES67 audio networking, but also through legacy audio protocols such as AES/EBU and MADI, supporting virtually any external sound system.

QUALITY

AFC3 system hardware is recognised by the global audio professional community for its outstanding sound quality. However, an acoustic enhancement system also relies on acoustic design and tuning. This is why AFC3 systems are designed and tuned by international teams of experienced professionals, each with a track record of projects in opera houses, concert halls and multi-purpose venues with enhanced acoustics, ensuring both performers and audiences are satisfied with every performance.

OPERATION

AFC3 systems come as standard with both a bespoke iPad-based graphic user interface, as well as one or more optional wall-mounted panels, both offering easy selection of the system's presets. No technically skilled staff are required for operation, systems can be switched to the required mode by the simple touch of a button. In addition, AFC3 systems can support media control systems such as Crestron and AMX, responding as an integral part of a venue's overall control infrastructure.

THE MUSIC

Yamaha is the largest manufacturer of musical instruments on the planet, producing virtually any musical instrument imaginable - from a concert grand piano to a marimba, from a flute to a French horn, acoustic and electric guitars to Latin percussion. It's that background that is the motivation for Yamaha to have also become the world's largest manufacturer of professional audio and AV components, including AFC systems. Although Yamaha is regarded as the world's most innovative pioneer in professional audio technology, the unique DNA of everything that the company does is the sound source: a human being playing an instrument, which includes the human voice. All Yamaha professional audio products pay tribute and respect the sound source and music. This 'musical DNA', combined with innovative DSP technology and decades of knowledge and experience in acoustics, has shaped the third generation of Active Field Control systems: AFC3.



Dante









RECENT AFC3 INSTALLATIONS

* REHEARSAL HALL AT ROYAL SWEDISH OPERA, STOCKHOLM, SWEDEN



* MIŃSK MAZOWIECKI, POLAND



* CIMINELLI RECITAL HALL, BUFFALO, NY



* GRAND THEATRE OF THE NATIONAL OPERA, WARSAW, POLAND



* NANYANG TECHNOLOGICAL UNIV., SINGAPORE





* AMSTERDAM HOGESCHOOL VOOR DE KUNSTEN, AMSTERDAM, THE NETHERLANDS



* PLAZA VERDE, NUMAZU, JAPAN



* TYUMEN PHILHARMONIE, RUSSIA



* THE GOTHENBURG OPERA, GOTHENBURG, SWEDEN



* HIGH COURT AUDITORIUM, SEOUL, KOREA



***** THE CASTLE OPERA, SZCZECIN, POLAND





***** PARKGEBOUW, RIJSSEN, THE NETHERLANDS





WXC-50 & WXA-50



SIMPLE AND FLEXIBLE, FOR ULTIMATE LISTENING FREEDOM

The **WXC-50** is a new-concept audio component that goes beyond conventional audio thinking. It let you access a wide variety of audio content such as music from streaming services or stored on a smartphone, and enjoy high quality sound and style thanks to the ability to network with Yamaha's exclusive MusicCast multi-room audio system. High functionality and performance bring you musical enjoyment for domestic, retail, hospitality, conference, presentation and many more applications



STREAMING SERVICE PROVIDERS: SPOTIFY, SPOTIFY CONNECT, DEEZER, TIDAL

*Streaming service availability varies by region.



CD PLAYER









CD-N301

CD-S300RK

CD-C600RK

	CD-S300RK	CD-C600RK	CD-N301
COMPATIBLE MEDIA	CD-R, CD-RW	5-CD changer : CD-R, CD-RW	CD-DA, CD-R, CD-RW, Streaming DLNA Ver 1.5
COMPATIBLE AUDIO FORMATS	CDA, MP3, WMA, CD Text	CDA, MP3, WMA, CD Text	MP3, WMA, AAC, WAV, FLAC
D/A CONVERTOR	24bits/192kHz	24bits/192kHz	32bit/192 kHz
USB	1 front, iPod 1 compatible	1 front, iPod 1 compatible	-
DIGITAL OUTPUTS	Optical + Coaxial	Optical	Optical x 1, Coaxial x 1
ANALOGUE OUTPUTS	1	1	1
ETHERNET PORTS	-	-	1
PORT RS-232C	-	Yes	-
DIMENSIONS (W X H X D)	480 x 86 x 260 mm	480 x 116 x 405 mm	435 x 86 x 260 mm
WEIGHT	4.3 kg	7.3 kg	3.2 kg
RACK EARS	Yes	Yes	-

AMPLIFIER



A-S301



A-S501

A-5301

A-S501

OUTPUT POWER	2x 60 W (8 ohms, 20 Hz to 20 kHz, 0.019% THD)	2x 85 W (8 ohms, 20 Hz to 20 kHz, 0.019% THD)
CHASSIS	TopArt anti-resonance	TopArt anti-resonance
INPUTS	8 including 1 phono	8 including 1 phono
OUTPUTS	4 including 1 subwoofer out	4 including 1 subwoofer out
HEADPHONES	1 x front	1 x front
REMOTE CONTROL	Infrared	Infrared
DIMENSIONS (W x H x D)	435 x 151 x 387 mm	435 x 151 x 387 mm
WEIGHT	9 kg	10.3 kg

AUDIO/VIDEO

TUNER AMPLIFIERS

RX-V485



MusîcCast Image: Cost Image: Cost

RX-V685

	RX-V485	RX-V685
RATED OUTPUT POWER	U.S AND CANADA: 115W (1ch driven, 1kHz, 8 ohms, 0.9% THD) 80W (2ch driven, 20Hz-20kHz, 8 ohms, 0.09% THD)	125W (1ch driven, 1kHz, 8 ohms, 0.9% THD) 90W (2ch driven, 20Hz-20kHz, 8 ohms, 0.06% THD)
	OTHER REGIONS: 115W (1ch driven, 1kHz, 6 ohms, 0.9% THD) 80W (2ch driven, 20Hz-20kHz, 6 ohms, 0.09% THD)	
POST BI-AMPING	-	Yes
DECODING FORMATS	Dolby TrueHD, DTS-HD Master Audio	Dolby Atmos, DTS:X, Dolby TrueHD, DTS-HD Master AUdio
D/A CONVERTER	Burr-Brown 32bit/384kHz	Burr-Brown 32bit/384kHz
AUDIO FORMATS	DSD up to 11.2MHz, FLAC, WAV, AIFF 192kHz/32Bit, ALAC 96kHz/24Bit, MP3, WMA, AAC	DSD up to 11.2MHz, FLAC, WAV, AIFF 192kHz/32Bit, ALAC 96kHz/24Bit, MP3, WMA, AAC
MULTI-ZONE	Zone B	Zone 1 (surround) + zone 2 (stereo)
DIGITAL INPUTS	3	4
ANALOGUE INPUTS	5	5
ANALOGUE OUTPUTS	0	0
PRE-OUTPUTS	Subwoofer	2.2 channel (Front L, Front R, Subwoofer × 2)
AIR PLAY (STREAMING)	PC, Mac, iPop, iPhone, iPad	PC, Mac, iPop, iPhone, iPad
HDMI	4 Inputs + 1 output	5 Inputs + 2 outputs
UPSCALING VIDEO	-	UHD / 4K to Full HD1080p
RS232C/RS422	-	-
MusicCast COMPATIBLE	Yes	Yes
DIMENSIONS (W X H X D)	435 x 161 x 327 mm	435 x 171 x 378 mm
WEIGHT	7.7 kg	10.5 kg







RX-A880

RX-A3070

	RX-A880	RX-A3070
RATED OUTPUT POWER	130W (1ch driven, 1kHz, 8 ohms, 0.9% THD) 100W (2ch driven, 20Hz-20kHz, 8 ohms, 0.06% THD)	185W (1ch driven, 1kHz, 8 ohms, 0.9% THD) 150W (2ch driven, 20Hz-20kHz, 8 ohms, 0.06% THD)
DECODING FORMATS	Dolby Atmos, DTS:X, Dolby TrueHD, DTS-HD Master Audio	Dolby Atmos, DTS:X, Dolby TrueHD, DTS-HD Master Audio
BI-AMP CAPABILITY	Yes	Yes
D/A CONVERTER	32bit / 384KHz (Burr-Brown)	32bit / 192KHz ESS SABRE32™ Ultra DAC (for main 7 channels)
CONNECTIVITY	HDMI Input/Output: 7/2	HDMI Input/Output: 8/2
USB INPUT	USB Memory, Portable Audio Player	USB Memory, Portable Audio Player
NETWORK PORT	Yes	Yes
WI-FI	Yes (with Wireless Direct)	Yes (with Wireless Direct)
AIRPLAY	Yes	Yes
BLUETOOTH	Yes (SBC / AAC)	Yes (SBC / AAC)
FRONT AV INPUT	USB / Analogue Audio	HDMI / USB / Analogue Audio / Composite
COMPOSITE VIDEO INPUT/OUTPUT	1/0	4/0
APP CONTROL	Yes (iPhone / iPad / Android phone / tablet)	Yes (iPhone / iPad / Android phone / tablet)
WEB BROWSER CONTROL	Yes	Yes
REMOTE CONTROL UNIT	Yes	Yes (Preset)
RS-232C INTERFACE	Yes	Yes
DIMENSIONS (W X H X D)	435x171x382 mm (with antenna up: 435x248x382 mm); 17-1/8″x6-3/4″x15″ (with antenna up: 17-1/8″x9-3/4″x15″)	435x192x474 mm (with antenna up: 435x247x474 mm); 17-1/8″x7- 1/2″x18-5/8″ (with antenna up: 17-1/8″x 9-3/4″x18-5/8″)
WEIGHT	11 kg; 23.4 lbs.	19.6 kg; 43.2 lbs.
MusicCast COMPATIBLE	Yes	Yes



DIGITAL SOUND PROJECTOR

MusicCast



	YSP-5600
Sound projector	7.1.2 channel
DECODING FORMATS	Dolby Atmos, DTS:X, Dolby True HD, DTS HD Master Audio
SPEAKERS	vertical sound beam: 1-1/8" x 6 x 2 beam drivers, horizontal sound beam: 1-1/2" x 32 beam drivers, 4-1/2" x 2 woofers.
RATED OUTPUT POWER	Array speaker: 74.8W (1kHz, 4 ohms, 1% THD), Woofer: 34W (100Hz, 4 ohms, 1% THD)
DIGITAL INPUTS	2 optical, 1 coaxial
ANALOGUE INPUTS	l in
HDMI	4 in, 1 out
MUSICCAST COMPATIBLE	Yes
DIMENSIONS (HxWxD)	1100 x 212 x 93mm
WEIGHT	11.7kg





MusicCast HOTEL AV COMPONENTS

INTERIOR AUDIO ISX-80 – INTEGRATED AUDIO SYSTEM

STYLISH AND WIRELESS – THE NEW Restio

- Beautiful art frame design enhances any living space.
- Luxuriously textured expanded metal and aluminium frame.
- Hang it on a wall like a picture.



ISX-80

MusicCast



WX-030

WIRELESS STREAMING SPEAKER **WX-030**

SAY HELLO TO MusicCast

- Hang it on a wall vertically or horizontally.
- Compact size lets you enjoy music anywhere in your home.
- Passive radiator design provides surprisingly strong bass output.
- Stereo Pairing lets you connect two units for wider stereo sound.

NETWORK POWERED SPEAKER NX-N500

ALL-IN-ONE MusicCast SPEAKERS

- 140W total output power for thrilling sound and profound musicality.
- Bi-amp drive and XLR cable provide superb sound quality.
- DSD 5.6 MHz native, PCM 384 kHz playback compatibility.

MusicCast



NX-N500

NS-AW SERIES

LOW IMPEDANCE ALL WEATHER WALL MOUNT SPEAKERS

- * HIGH QUALITY 2-WAY SPEAKER ENCLOSURES FOR AV USE
- * IPX3 FOR OUTDOOR USE
- * AVAILABLE IN UV RESISTANT BLACK OR WHITE COATING
- * INCLUDING WALL MOUNT BRACKET
- * ROTATABLE Yamaha LOGO



NS-AW392B / NS-AW592B

NS-AW392W / NS-AW592W

BACKGROUND

		NS-AW392	NS-AW592
COMPONENTS	LF	5" Cone	6.5" Cone
	HF	0.75" Soft dome	1 " Soft dome
NOMINAL IMPEDANCE		6Ω	6Ω
POWER RATING	NOISE	40W	50W
	MAX	120W	150W
SENSITIVITY (1W,1M)		86dB SPL	88dB SPL
MAXIMUM SPL (CALCULATE	D, 1M)	106dB SPL	109dB SPL
FREQUENCY RANGE	-10dB	60Hz - 25kHz	55Hz - 20kHz
CROSSOVER FREQUENCY		6kHz	5kHz
CONNECTORS		binding post	binding post
COLOR (GRILLE)		NS-AW392BL: Black NS-AW392W: White	NS-AW592BL: Black NS-AW592W: White
DIMENSIONS (W x H x D)		170 x 273 x 136mm	206 x 340 x 170mm
WEIGHT		1.8kg (4lbs)	2.4kg (5.3lbs)
INCLUDED ACCESSORIES		wall-mount adaptor, Owner's Manual	wall-mount adaptor, Owner's Manual
PACKAGING		per pair	per pair



NS-IC SERIES



LOW IMPEDANCE CEILING SPEAKERS

- * CEILING SPEAKERS FOR AV USE, LOW IMPEDANCE ONLY
- * MAGNETIC GRILLE MOUNT



NS-IC400

NS-IC600

NS-IC800

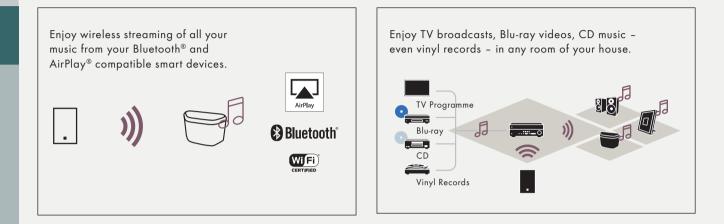
		NS-IC800	NS-IC600	NS-IC400
SPEAKER TYPE		2-way	2-way	Full range
COMPONENTS	LF	8" Cone	6.5" Cone	4" Cone
	HF	1" Soft dome	1" Soft dome	
NOMINAL IMPEDANCE		28	8Ω	8Ω
POWER RATING	NOISE	50W	40W	30W
	MAX	140W	110W	90W
SENSITIVITY (1W,1M)		90dB SPL	90dB SPL	85dB SPL
MAXIMUM SPL (CALCULAT	ED, 1M)	111dB SPL	110dB SPL	104dB SPL
FREQUENCY RANGE (-10c	IB)	50Hz - 28kHz	65Hz - 28kHz	95Hz - 40kHz
CROSSOVER FREQUENCY		3.5kHz	3.2kHz	-
CONNECTORS		wire-end clamp	wire-end clamp	wire-end clamp
COLOR (GRILLE)		White	White	White
DIMENSIONS		Ø283 x 120mm	Ø242 x 119mm	Ø150 x 86.5mm
WEIGHT		1.9 kg	1.5 kg	0.8 kg
PACKAGING		per pair	per pair	per pair

AUDIO VISUAL

MusicCast



MusicCast



YAMAHA

TOTAL MUSIC/AUDIO BRAND WITH 130 YEARS EXPERIENCE

With its long and storied history of 130 years, Yamaha has established itself as a premier brand that embraces and embodies sound and music – a brand that knows all about music, and has led the industry in the fields of audio components, musical instruments, professional recording equipment, and even the acoustic design of concert halls. Now, Yamaha has gathered all its technologies and extensive know-how, nurtured through its long history and rich experience, and poured them into MusicCast.



All models support for high-resolution formats (WAV/FLAC/AIFF, Apple Lossless), letting you play back highresolution streaming sound sources and fully maintain the sound quality of the original. And, since each device is equipped with an equaliser function, you can fine-tune the sound just as you desire.



STRONG AND STABLE NETWORK PERFORMANCE

Each MusicCast device has built-in signal transmitters, letting you build a solid network through linking to the device with the strongest radio waves. And thanks to superior network technology created by the development of network audio and routers within the group, you can enjoy stable multi-room audio anywhere in your home.



ENVIRONMENTALLY FRIENDLY, TOO. WITH SUPERB ECO PERFORMANCE.

All MusicCast devices feature exceptionally low standby power consumption of less than 3 watts. They also have an Auto Standby function that turns off the power if no signal is received for a certain amount of time. Designed with eco performance in mind, the MusicCast components are environmentally friendly.





MusicCast & DISKLAVIER ENSPIRE



PLAY AND STREAM TRUE PIANO SOUND ANYWHERE

Combine Yamaha's famed entertainment piano, the Disklavier, with the MusicCast wireless music system, and you can enjoy the sound and music of a real acoustic piano – in a hotel lobby, reception, living room. In fact, bask in the music just as if you are hold-ing a concert. Introducing a new world of musical entertainment that could only come from Yamaha, the world's foremost musical instrument and audio brand.

THE LUXURY OF ENJOYING LIVE PIANO PERFORMANCES WHENEVER YOU LIKE. Yamaha's AUTOMATIC PERFORMANCE PIANO, THE DISKLAVIER

The Disklavier is a full entertainment piano, one that can not only be played as a genuine acoustic piano, but one that also automatically plays any of the 500 built-in music pieces, as well as songs downloaded from the internet (more than 4000 titles). Yamaha's proprietary high-precision digital control system reproduces the action of the keyboard and pedals with complete accuracy, just as it was recorded by a professional pianist. The music that flows to you is the sound of an acoustic piano itself. This is truly the ultimate musical system, letting you enjoy actual performances by professional pianists – with all the genuine touch, nuance and emotion as intended by the artists – in real acoustic sound.

DISKLAVIER STREAMING RADIO SERVICES

Disklavier offers revolutionary streaming radio services, allowing you to select from and enjoy thousands of piano performances. Disklavier Radio gives you instant access to over 30 channels, in a variety of genres including jazz, classical and pop.

MusicCast PLAYS THE SOUND OF DISKLAVIER DISTRIBUTED TO OTHER ROOMS

By linking the Disklavier to a MusicCast compatible device, the music and performances of the Disklavier can be spread throughout a venue's locations wirelessly. Enjoy elegant piano performances in the bar from the Piano performance in the lobby.

IOS AND ANDROID GRAPHIC USER INTERFACE APPS FOR MusicCast AND DISKLAVIER ENSPIRE

MusicCast and Disklavier Enspire components can be controlled from the MusicCast Controller app, as well as from a Graphic User Interfaced programmed with the Pro Visionaire Touch app, allowing integrated control of Disklavier Enspire, MusicCast and MRX/ MTX based Commercial Installed Systems in a single user interface. The MusicCast controller app is available for iOS and Android devices. The ProVisionaire Touch app is available for iOS devices only.





BACKGROUND MUSIC

The combination of practicality, convenience, sound quality and keyboard touch make **Yamaha HYBRID AND DISKLAVIER PIANOS** the perfect solution for hotel lobbies, lounges, restaurants, and also in educational institutions.



AVANTGRAND

Yamaha's breakthrough AvantGrand hybrid range offer visually attractive digital instruments with the mechanical advantages of a traditional acoustic instruments, featuring piano actions like those found in Yamaha grand and upright pianos providing a superb playing experience.



DISKLAVIER

Disklavier is a range of modern, yet traditional acoustic pianos that allow the player to record and playback performances with the instrument acting and sounding exactly as it would as if being played; with keys and pedals moving precisely in real time - ideal as a visually attractive stand-in in the breaks for background music pianists in hotel lounges, lobbies and restaurants.



JAZZ

Yamaha has been a supplier of **JAZZ AND COMBO INSTRUMENTS** for many decades, used by artists all over the world. Yamaha is the only company in the world that can provide a complete musical instrument set for a jazz combo – including drums, acoustic as well as digital pianos, guitars, bass guitars and of course wind instruments.

CLARINET

No other manufacturer makes clarinets like Yamaha. Five different models are produced, all with superb playability, precise intonation and a beautifully resonant, musical timbre.

SAXOPHONE

Considered by many to be the best in the world, Yamaha saxophones range from Custom and Pro to intermediate and standard models. Available in soprano, also, tenor and baritone sizes, all feature highly accurate intonation, warm tone and a quick response.



A staple of traditional jazz, Yamaha trumpets feature hand-craftsmanship augmented by cutting edge manufacturing technology. This unique combination delivers instruments of remarkable quality, with a clear sound and excellent projection.

ROCK & POP

DRUMS, GUITARS, BASS GUITARS AND KEYBOARDS – along with their backline and monitor speakers: nearly every pop and rock band has played a Yamaha instrument one time or the other. Manufacturing high quality guitars and drums since 1963, Yamaha introduced the first analogue synthesisers in 1976, and digital synthesisers in 1981 – with the famous flagships CS80 and DX7 shaping the sound of the decades that followed.



DRUMS

Yamaha drum kits are a fixture of stages and studios throughout the world. With acoustic drum kit shells produced in a range of woods, complemented by the DTX range of electronic kits, there is a Yamaha drum kit for every type of music.

GUITARS

Yamaha produces guitars and basses suitable for everyone from young beginners to seasoned professionals, and music styles ranging from classical to heavy rock. The finest tone woods and high quality components combine to deliver instruments of supreme quality.



KEYBOARDS AND STAGE PIANOS

Whether its an arranger workstation, synthesiser, stage piano or portable home keyboard, Yamaha digital keyboard instruments deliver sounds of exceptional quality from highly responsive keyboards, all with very user friendly controls.





SYMPHONY ORCHESTRA

Yamaha is renowned world wide for the high quality of the **CONCERT PIANOS, BRASS AND WOODWIND INSTRUMENTS**, and concert percussion, used by symphony orchestras, brass bands, conservatoires and music schools – and of course by millions of amateur musicians: with more than 6 million pianos and more than 100 million wind instruments sold, Yamaha's impact on the world music is second to none.

CONCERT PIANOS

Yamaha's reputation as one of the world's best concert piano manufacturers is well founded. Crafted with exceptional attention to detail, the sound and playability of Yamaha grand and upright pianos ensure that the loudest chords and the quietest passages are all delivered with equal quality.

BRASS AND WOODWIND

From oboes and bassoons to tubas and trombones, Yamaha's extensive range of carefully crafted brass and woodwind instruments deliver a consistent sound and playability that is unmatched anywhere else.

PERCUSSION

A vital part of any orchestra, Yamaha percussion is carefully manufactured to deliver pure sound quality, while being robust enough to cope with the most thunderous composition!

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