

DIGITAL MIXING SYSTEM





PERFECTING **THE ART OF**

All art, including art that involves sound and music, is expression that has an impact on the viewer or listener. It often begins with the artist's personal journey of self-discovery that sometimes grows and ripples outward in waves that resonate with people everywhere.

Yamaha supports the engineers who support artists and performers in their quest to make waves, carrying their vision to a wider audience.



DELIVERING ART AROUND THE WORLD

To fully support the sound engineers who support the artists and performers, Yamaha makes absolutely no compromises when it comes to quality. Sound, operability, and reliability must all be first class, and implemented in a way that allows engineers to concentrate fully on helping artists and performers deliver their message. The RIVAGE PM series embodies this ideal at the highest level, connecting technology, art, and audiences with waves that encircle the world.



AN ALL-EMBRACING ECOSYSTEM

The RIVAGE PM10 and PM7 Digital Mixing Systems are already legendary. With the arrival of the RIVAGE PM5 and PM3 consoles and updated DSP engines, the RIVAGE PM now includes five consoles, two DSP engines, two I/O rack units, and two network protocols. Any of these components can be combined to create systems that match a wide range of application scale and budget requirements.

All five consoles feature a similar interface with up to three bays of 12 faders each, touch-sensitive display panels, and the Yamaha Selected Channel Section. Engineers who are familiar with one RIVAGE PM console can easily switch to any other and be up and running in a matter of minutes.

All RIVAGE PM system components are compatible, and components from earlier systems will work in combination with later systems. That goes for I/O racks as well as DSP engines, so in addition to operating them separately you can combine DSP engines in mirrored configurations for large applications, for example.

A Choice of Two Component DSP Engines or Integrated DSP

Depending on system scale and requirements, RIVAGE PM consoles can be used with the DSP-RX-EX engine providing up to 288 inputs, 72 mix buses, and 36 matrices, or the DSP-RX engine providing up to 120 inputs with 48 mix buses and 24 matrices. Both versions offer outstanding RIVAGE PM sound and stability. If you start with the DSP-RX and later decide you need the extra routing capability of the DSP-RX-EX, there's a DSP Expansion Kit that upgrades the DSP-RX to DSP-RX-EX specifications.

If you need a more integrated, compact system, the RIVAGE PM7 has signal processing for mixing and effects built right into the CSD-R7 digital mixing console. The only other components needed for a minimum PM7 system 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.

Stunning Sound Plus TWINLANe and Dante Network Support



The TWINLANe network uses 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.

The Dante audio network from Audinate is standard in CL and QL series digital consoles as well as a range of other Yamaha pro audio products. Danteequipped Rio3224-D2 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.





EVOLVED CONSOLE DESIGN: INGREDIBLY SLIM, LIGHTWEIGHT, AND INTUITIVE

The RIVAGE PM5 Digital Mixing System packs undiluted RIVAGE PM power and performance into a lightweight, intuitive console that is surprisingly slim. Sound and features are essentially the same as the PM10 and PM7, while evolved hardware and software deliver a new mixing experience. The addition of a third display screen has made it possible to offer a more touch-centric interface in a compact, significantly lighter console that is easier to transport, setup, and operate in a wide range of venues.

Easy-reach Layout and Improved Sight Line



The RIVAGE PM5 make all the power of the RIVAGE PM series even more accessible with a slim design that brings the touch-sensitive displays closer to the operator for incredibly smooth, comfortable control. This evolved console design also provides a closer connection to the performers on stage with improved sight lines that give the engineer a broader, more comprehensive view of the action.

Three 15-inch Touch-sensitive Display Panels



Much of the RIVAGE PM5's extraordinary functionality has been condensed into three 15-inch capacitive touchsensitive display panels. These large, high-visibility displays present essential controls and information in one place in a clear, well-organized format, so the engineer can read and react to situations with maximum speed and efficiency. Touch sensitivity not only allows basic clicking and selection, but familiar pinch and swipe gestures can be used as well for significantly enhanced operating efficiency.

The Acclaimed Yamaha Selected Channel Section



The Yamaha Selected Channel concept is familiar to and highly regarded by most seasoned sound engineers. The RIVAGE PM5 Selected Channel Section consolidates an essential group of physical controls in a compact section that allows fast, intuitive operation. In combination with the touch-sensitive display panels the Selected Channel Section provides even more comprehensive control for extremely efficient operation.

Lightweight for Easy Setup and Transportation



Although it offers heavy-duty performance and features, plus a comfortably spacious interface, the RIVAGE PM5 weighs surprisingly little. At only 42 kilograms it can be easily carried and positioned by just two people. This impressive weight reduction has been achieved through state-of-the-art mechanical design and the use of a lightweight but extremely durable material.

Updated Send Operation



Setting up sends is an important part of just about any live mixing workflow. In addition to the familiar Sends on Fader function, send levels can be controlled from the Send / User Defined Knobs. Send levels shown on the display panels where they can also be adjusted via touch control. This expanded range of control choices greatly enhances convenience and versatility when setting up and tweaking sends.

High-visibility Fader Meters



Clear visual feedback is also provided by the meters associated with each fader. The fader meters can display mono or stereo levels, or gain reduction when you want to keep an eye on channel dynamics. The fader meters can contribute to smooth, accurate control by providing direct feedback of how fader operation is affecting the signal.



THE COMPACT RIVAGE PM CONSOLE FOR MAIN OR MONITOR USE

If you have a space that is wider than 1,145 millimeters (a little over 45 inches), the RIVAGE PM3 will fit. That's awesome RIVAGE PM power in the most compact package ever, ideally suited to smaller venues or monitor applications. The RIVAGE PM3 has a simpler single-display interface with 24 User Defined Keys to facilitate access and speed up operation. You still get full RIVAGE PM sonic quality, a full set of features, and 38 physical faders for intuitive hands-on mixing.

Full Fader Complement



It may be the most compact model in the lineup, but the RIVAGE PM3 still offers a full complement of 38 (12+12+12+2) physical faders. This configuration is consistent throughout the RIVAGE PM lineup, providing intuitive hands-on mixing while making it easy for engineers to use any RIVAGE PM model without getting lost.

Large Touch-panel Display and Selected Channel Section





This high-visibility 15-inch display consolidates essential controls and information in an easily understandable format, so the engineer can read and react to situations with maximum speed and efficiency. Touch sensitivity not only allows basic clicking and selection, but familiar pinch and swipe gestures can be used as well for significantly enhanced operating efficiency. The display works in conjunction with the familiar Yamaha Selected Channel Section, providing a compact group of essential physical controls for fast, intuitive hands-on operation.

Lightweight and Compact but Heavy on Features



Weighing only 38 kilograms, the RIVAGE PM3 is the most mobile and manageable console in the RIVAGE PM lineup. That doesn't mean it skimps on sound quality or features. It uses the same software and console files as the rest of the series, so everything is there in small, lightweight, simplified form.

Updated Send Operation



Setting up sends is an important part of just about any live mixing workflow. In addition to the familiar Sends on Fader function, send levels can be controlled from the Send / User Defined Knobs. Send levels shown on the display panels where they can also be adjusted via touch control. This expanded range of control choices greatly enhances convenience and versatility when setting up and tweaking sends.

24 User Defined Keys



24 physical User Defined Keys can be assigned to directly recall any functions the engineer will be using frequently, for fast one-touch access in front-of-house and monitor applications.





LUXURIOUS WORKSPACES FOR LARGE-SCALE APPLICATIONS

Although all RIVAGE PM series consoles offer essentially the same features and capabilities, some applications are best served by a full-scale console with a panel layout that emphasizes hands-on efficiency. That's where the RIVAGE PM10 and RIVAGE PM7 come to the fore, with generous, luxurious workspaces that can be advantageous in large-scale applications.

Full Selected Channel Section



The RIVAGE PM10 and PM7 all feature a full implementation of the Yamaha Selected Channel interface, with physical controllers that allow direct intuitive control of all parameters in the currently selected channel. The Selected Channel interface brings the hands-on simplicity of analog mixing styles to the digital world, providing easy entry for engineers who learned on analog equipment. The Selected Channel controls and indicators are given plenty of space and are efficiently laid out for logical operation and comfort.

Ergonomic Design



All RIVAGE PM consoles are designed with emphasis on ergonomics, providing a working environment that minimizes stress and fatigue. That applies not only to operation, but to transportation and setup as well. Another important factor for live performance mixing is sight lines. The RIVAGE PM consoles are designed to give the engineer a clear view of the stage and performers, allowing fast, appropriate response to visual cues.

Clear Visual Feedback



Great care has been taken to ensure that operational feedback to the engineer is always clear and consistent, so that appropriate mixing decisions can be made. Even the "horseshoe ring" indicators surrounding the multi-function encoders at the top of the fader strips have been carefully designed so that all segments remain fully visible from the engineer's viewing position. Every detail counts, especially in live mixing situations.

Flexible Monitor Section



Monitoring flexibility is an important criterion for live sound consoles that must be adaptable to a broad variety of applications. The RIVAGE PM10 and PM7 feature two monitor/cue outputs, with up to eight combinations of monitor sources that can be memorized and selected as required. In addition to independent control of output levels, dedicated delays and 8-band parametric equalization are available specifically for monitor use. It is even possible to insert plug-ins immediately before the EQ stage. All of these features provide the flexibility needed to create optimum monitor setups for just about any situation.

External Display Support



If the application calls for even more visual feedback than provided by the 15-inch displays built into the RIVAGE PM10 and PM7, an external display can be connected via a DVI port. This kind of expandability is one of the reasons the RIVAGE PM series has become the first choice of discerning engineers and artists everywhere.

Dual Encorder



The RIVAGE PM10 and PM7 consoles feature two encoders for each channel: channel strip encoders that can be assigned to five different functions, and screen encoders that control the corresponding parameter on the adjacent display panel. Physical controllers are simply unbeatable when it comes to hands-on control, so the availability of two encoders per channel gives the PM10 and PM7 an operational advantage.

RIVAGE PM SERIES PHILOSOPHY AND FEATURES

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.

The foundation is 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. Add the latest refinements in channel EQ and dynamics, and you have extraordinary creative scope.

The built-in plug-ins that support creative sound engineering have also evolved, many through close alliances with other manufacturers that are leaders in their respective fields. Collaboration with RND (Rupert Neve Designs) and the use of Yamaha VCM technology has resulted in flawless recreations of prized equalizers and compressors from the 70s and 80s. There are also impeccable models of Eventide harmonizer and reverb effects that could only have been created through cooperation with the original manufacturer.

All of this has been implemented in the RIVAGE PM series to give engineers the tools they need to deliver the highest quality, most musical sound possible.

Two Types of I/O

Input circuitry and processing are critical to achieving a high level of 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 of those networks is TWINLANe, capable of carrying up to 400 audio channels via optical cable. The RPio622 and RPio222 I/O racks are TWINLANe devices, as are the HY256-TL and HY256-TL-SMF audio interface cards. The RPio622 and RPio222 I/O racks include Hybrid Microphone Preamplifiers with high-performance analog input stages, plus advanced digital sections that

include accurate emulations of Rupert Neve Designs transformer and SILK processing circuitry.

Audinate Dante network compatibility, a standard feature in many other Yamaha consoles and pro audio products, is also available. The Rio3224-D2 and Rio1608-D2 I/O Racks and the HY144-D audio interface card are Dante ready, and can be combined to provide natural sound input with any RIVAGE PM series system. Either network solution is capable of capturing the sound being created on stage, without coloration and with every nuance intact, allowing the engineer to use the creative capabilities of the RIVAGE PM series to reach the audience with maximum impact.





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An Extraordinary Selection of Plug-ins

Processing guality 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 PM series includes over 50 plug-ins, and ample processing power allows up to 256* instances of complex plug-ins such as the Portico 5033 or Portico 5043 to be used simultaneously. There are also the Eventide H3000 Ultra-Harmonizer and a new SP2016 reverb with a large selection of presets, Dan Dugan automatic microphone mixing, and more. These contributions from distinguished third parties complement a range of original Yamaha plug-ins, adding extraordinary versatility and processing power that give the engineer wide-ranging creative freedom. *with DSP-RX-EX

RND Portico Plug-ins









Although the SILK processing simulation created in cooperation with RND is an important part of the RIVAGE PM system, it is by no means the only product of that fruitful relationship. In addition to the well-known and highly acclaimed Portico 5033 EQ and 5043 compressor, RIVAGE PM systems include the easy-operation Rupert Neve Designs Portico 5045 Primary Source Enhancer that 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.

Dan Dugan Automatic Mixer



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 nonscripted situations, this allows the operator to concentrate on details other than fader operation for consistently high-quality mixes.

Eventide Effects

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The Eventide name is legendary in the effects field. The acclaimed H3000 Ultra-Harmonizer and a new SP2016 Reverb plugin added in version 4.0 are available throughout the RIVAGE PM series. In addition to a full range of parameters that can be edited to precisely tailor the effects for any need, the SP2016 features a large selection of presets that make it quick and easy to call up an ideal reverb sound.

Eventide

Yamaha DaNSe Noise Suppression



The RIVAGE PM series includes a range of original Yamaha plug-ins that are extremely powerful too, including the DaNSe Noise Suppressor. The "DaNSe" plugin analyzes noise frequency characteristics and employs a learn function to automatically achieve the most effective noise suppression without the need for any complex setup or programming by the user. Effective noise suppression can be a huge

advantage for plays and musicals, significantly enhancing audio clarity. DaNSe can suppress air conditioning noise and noise produced by cooling fans in onstage moving lights. It can reduce monitor bleed to on-stage instrument mics, and suppress crowd noise during announcements and sports events. It is a highly effective and widely applicable noise suppression tool.

Dan Dugan Sound Desig

OPERATIONAL HIGHLIGHTS

Yamaha has always focused on operability in digital live sound consoles, sparing no effort in providing an interface that engineers coming from analog consoles can operate intuitively, while at the same time maximizing the benefits of digital technology and features. RIVAGE PM systems takes that concept to a new level, extending an already familiar and highly rated interface for even greater efficiency and ease in achieving the ultimate sound.

It won't be possible to describe all RIVAGE PM operational features in the space available here, so we'll just mention a few highlights. Visit the Yamaha Pro Audio website for more details.



Refined Interface

A key element of the RIVAGE PM interface is the industry-standard Yamaha Selected Channel concept, providing direct access to parameters of any channel selected via its SEL key. The Selected Channel section provides direct, fast access to all channel parameters. Encoders, buttons, and indicators are provided in a comprehensive layout that makes maximum use of the available panel space, for comfortable operation in any environment or mixing situation.

RIVAGE PM series control surfaces feature three groups of 12 faders to which channels can be assigned as required. Depending on the console, some or all of the fader groups work with large touch-sensitive displays in the top panel, providing an evolved version of the Centralogic operating environment. The channel strips extend vertically and virtually seamlessly into the touch panel displays, for lucid, logical control. In addition to allowing channels to be conveniently managed in 12 channel groups, this configuration also facilitates 2-man operation with different operators handling separate groups.

Overlay Filter for Rapid Response



The Overlay filter can notably enhance the usefulness of the console's scene memory. It can be "overlaid" on a current mix to apply offsets to the fader levels and mix/matrix send levels independently from scene recall. This can be useful when an unplanned performer change occurs, for example, facilitating a temporary, relative level adjustment that can be instantly returned to the original level. The

Overlay filter will prove its value in situations that require sudden changes plus the ability to easily revert to the original settings.

Theatre Mode



Theatre Mode facilitates scene and costume changes with four banks that can be used to store different EQ and dynamics settings for individual performers. In Theatre Mode, rather than storing EQ and dynamics settings in the console's "scenes," only the bank number is stored so that any adjustments made will apply to all scenes that use the same bank. This can be used when multiple actors are cast in

the same role or when a substitute must be used, allowing faster, more flexible mix changes to accommodate different casts, for example.

DSP Mirroring for Failsafe Redundancy



DSP Mirroring allows two DSP-RX or DSP-RX-EX engines to be used for failsafe redundancy with RIVAGE PM10, PM5, and PM3 systems.* If a problem occurs in the main DSP engine, the second DSP engine can take over without disrupting the program.

* The RIVAGE PM7 features integrated DSP processing and does not support DSP mirroring.

Console File Converter Brings the Yamaha Family Together



The Yamaha Console File Converter is an application that allows data to be shared between a number of Yamaha digital mixing consoles. User 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.

SYSTEM COMPONENTS

RIVAGE PM10 Core Components



CS-R10

The control surface with two large touch panel displays and 38 faders enables you to perform general operations on the RIVAGE PM10 system.

- Display: 15" touch panel x 2 Faders: 38 (12+12+12+2)
- Selected Channel section: comprehensive channel parameters
- Custom Fader banks: 6 x 5 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 (61.0" x 16.4" x 33.4")
- Net Weight: 85 kg (187 lbs)





CS-R10-S

The control surface with single large touch panel display and 26 faders enables you to perform general operations on the RIVAGE PM10 system.

- Display: 15" touch panel x 1 Faders: 26 (12+12+2)
- Selected Channel section: comprehensive channel parameters
- Custom Fader banks: 6 x 5 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 (44.4" x 16.4" x 33.4")
- Net Weight: 67 kg (147.7 lbs)



RIVAGE PM7 Core Components

CSD-R7

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.

- Superior capability of processing digital audio signals of up to 144 inputs, 60 mix buses, 36 matrices, 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 5 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 (61.0" x 16.4" x 33.4")
- Net Weight: 94 kg (207 lbs)

RIVAGE PM5 Core Components

CS-R5

The control surface with three large touch panel displays and 38 faders enables you to perform general operations on the RIVAGE PM5 system.

- Display: 15" touch panel x 3 Faders: 38 (12+12+12+2)
- Selected Channel section: Dynamics, GAIN, HPF, EQ, PAN, Function Knob
- Custom Fader banks: 6 x 5 on each bay
- User Defined keys: 12 x 4 banks
- Send/User Defined knobs: 3 (4 x 4 banks can be assigned)
- Touch and Turn knobs: 3
- 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), MIDI In / Out, 5 USB (1 for 2-track recording)
- Power supply: Dual redundant power supply built-in
- Dimensions(WxHxD): 1,444 x 414 x 643mm (56.9" x 16.2" x 25.3")
- Net Weight: 42 kg (92.6 lbs)

SYSTEM COMPONENTS

RIVAGE PM3 Core Components



CS-R3

The control surface with single large touch panel displays and 38 faders enables you to perform general operations on the RIVAGE PM3 system.

- Display: 15" touch panel x 1 Faders: 38 (12+12+12+2)
- Selected Channel section: Dynamics, GAIN, HPF, EQ, PAN, Function Knob
- Custom Fader banks: 6 x 5 on each bay
- User Defined keys: 12 x 4 banks
- Send/User Defined knobs: 1 (4 x 4 banks can be assigned)
- Touch and Turn knobs: 1
- Analog I / O: 8 in / 8 out Slot: 2 MY slots
- Ports: GPI (8 in / 8 out), MIDI In / Out, 5 USB (1 for 2-track recording)
- Power supply: Dual redundant power supply built-in
- Dimensions(WxHxD): 1,145 x 385 x 650mm (45.1" x 15.2" x 25.6")
- Net Weight: 38 kg (83.8 lbs)

DSP Engine





DSP-RX-EX/DSP-RX

The DSP-RX-EX/DSP-RX is a powerful DSP engine that serves as the core for signal processing and system control required for the RIVAGE PM system.

- DSP-RX-EX engine providing up to 288 inputs, 72 mix buses, and 36 matrices, or the DSP-RX engine providing the same maximum of 120 inputs, 48 mix buses and 24 matrices.
- 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 220 x 490mm (18.9" x 8.7" x 19.3") (5U rack size)
- Net Weight: DSP-RX-EX:20 kg (44.1 lbs), DSP-RX:19 kg (41.9 lbs)





I/O Rack



RPio622



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 (18.9" x 17.9" x 19.3") (10U rack size) Net Weight: 30 kg (66 lbs)

RPio222



^(A)Dante



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 (18.9" x 9.1" x 19.3") (5U rack size) Net Weight: 19 kg (41.9 lbs)



Rio3224-D2

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)



Rio1608-D2

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 (18.9" x 5.2" x 14.5") Net Weight: 9.6 kg (21.2 lbs)

SYSTEM COMPONENTS AND SOFTWARE

Audio Interface Card

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RY16-ML-SILK	for RPio622 / RPio22
Neve Designs, which allows you to freely control depth and perspective thro	Hz sampling rate. It features a new revolutionary analog mic preamp combined with Silk processing from Rupert bugh modeling in the digital domain. Each input connector can supply phantom power (+48V DC). eloped by Rupert Neve Designs and Yamaha • Dimensions (WxHxD): 405 x 42 x 258mm (16" x 1.7" x 10.2") • Net Weight: 1.6 kg (3.5 lbs
RY16-DA	for RPio622 / RPio222
The RY16-DA is a 16-channel analog output card that supports a 96 kHz sam factory setting is +24dBu. • 16-channel analog outputs • Dimensions (WxHxD): 405 x 42 x 258mm (16"	npling rate. You can use the switches on the board to set maximum output level to +15dBu, +18dBu, or +24dBu. Th
RY16-AE	for RPio622 / RPio22:
0	mat. Sampling rate converters (SRC) are provided for each of the 16 input channels and 16 output channels. Its and outputs. • Dimensions (WxHxD): 405 x 42 x 258mm (16" x 1.7" x 10.2") • Net Weight: 1.4 kg (3.1 lbs)
HY256-TL	for DSP-RX/DSP-RX-EX/CSD-R7/RPio622/RPio222
Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, wit	
 Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, wit communication status useful for troubleshooting. Recommended cable: Neutrik op 	ith a maximum of 256 inputs / 256 outputs. • Redundant connections are supported with ring topology. • Ind+C58icators sho pticalCON DUO multi-mode fiber • Dimensions (WxHxD): 125 x 37 x 207mm (4.9" x 1.5" x 8.2") • Net Weight: 0.25 kg (0.6 lb
Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, wit communication status useful for troubleshooting. Recommended cable: Neutrik op HY256-TL-SMF The HY256-TL-SMF is a digital I / O card for HY card slots, and compatible w	ith a maximum of 256 inputs / 256 outputs. • Redundant connections are supported with ring topology. • Ind+C58icators show pticalCON DUO multi-mode fiber • Dimensions (WxHxD): 125 x 37 x 207mm (4.9" x 1.5" x 8.2") • Net Weight: 0.25 kg (0.6 lbs
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 Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, wit communication status useful for troubleshooting. Recommended cable: Neutrik op HY256-TL-SMF The HY256-TL-SMF is a digital I / O card for HY card slots, and compatible w operation over long distances. Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, vitility, with the second status of the second status useful for troubleshooting. 	th a maximum of 256 inputs / 256 outputs. • Redundant connections are supported with ring topology. • Ind+C58icators show pticalCON DUO multi-mode fiber • Dimensions (WxHzD): 125 x 37 x 207mm (4.9" x 1.5" x 8.2") • Net Weight: 0.25 kg (0.6 lbs for DSP-RX/DSP-RX-EX/CSD-R7/RPio622/RPio222 with Yamaha's TWINLANe audio network protocol. The card supports single-mode fiber connections for reliable with a maximum of 256 inputs / 256 outputs. • Redundant connections are supported with ring topology. • Indicators show pticalCON DUO single-mode fiber • Dimensions (WxHxD): 125 x 37 x 207mm (4.9" x 1.5" x 8.2") • Net Weight: 0.35 kg (0.8 lbs
 Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, with communication status useful for troubleshooting. Recommended cable: Neutrik op HY256-TL-SMF The HY256-TL-SMF is a digital I / O card for HY card slots, and compatible we operation over long distances. Can send / receive uncompressed digital audio signals of 32-bit 96 kHz quality, we communication status useful for troubleshooting. Recommended cable: Neutrik op PHY144-D The HY144-D is a digital I / O card for HY card slots, and is compatible with 1 Can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send and receive uncompressed digital audio signals of 32-bit 96 kHz quality, we can send audio signals of 32-bit 96 kHz quality, we can send audio senders of 32-bit 96 kHz quality, we can sender senders of 32-bit 96 kHz qua	th a maximum of 256 inputs / 256 outputs. • Redundant connections are supported with ring topology. • Ind+C58icators show pticalCON DUO multi-mode fiber • Dimensions (WxHxD): 125 x 37 x 207mm (4.9" x 1.5" x 8.2") • Net Weight: 0.25 kg (0.6 lbs for DSP-RX/DSP-RX-EX/CSD-R7/RPio622/RPio222 with Yamaha's TWINLANe audio network protocol. The card supports single-mode fiber connections for reliable with a maximum of 256 inputs / 256 outputs. • Redundant connections are supported with ring topology. • Indicators show opticalCON DUO single-mode fiber • Dimensions (WxHxD): 125 x 37 x 207mm (4.9" x 1.5" x 8.2") • Net Weight: 0.35 kg (0.8 lbs for DSP-RX/DSP-RX-EX/CSD-R7/RPio622/RPio222

conversion allows interconnection between devices operating at different sampling rates. Five operational modes can be selected via firmware. • Transmits and receives up to 144 input and 144 output channels of uncompressed 96 kHz/32-bit digital audio. • Primary and secondary connectors support redundant connections. Daisy chain connections also supported • Five firmware-selectable operating modes: 144 in (SRC off 144 in/144 out) 144 in SvncSRC (SRC on synchronous, 144 in/144 out). 72 in AsyncSRC (SRC on asynchronous, 72 in/72 out).

also supported. • Five firmware-selectable operating modes: 144io (SRC off, 144 in/144 out), 144io SyncSRC (SRC on, synchronous, 144 in/144 out), 72io AsyncSRC (SRC on, asynchronous, 72 in/72 out), 144in AsyncSRC (SRC on, asynchronous, 144 in/0 out), 144o AsyncSRC (SRC on, asynchronous, 0 in/144 out). • Dimensions (W x H x D): 125 x 37 x 207mm (4.9" x 1.5" x 8.2") • Net Weight: 0.25 kg (0.6 lbs)

HY128-MD

The HY128-MD audio interface card provides MADI connectivity, handling up to 128 input and 128 output channels of 48kHz/24-bit digital audio. Onboard sample rate conversion allows interconnection between devices operating at different sampling rates.

• Transmits and receives up to 128 input and 128 output channels of uncompressed 48 kHz/24-bit digital audio. • Optical and coaxial connectors support redundant connections. If a problem occurs in one transmission line the system automatically switches to the second connection. • Dimensions (W x H x D): 125 x 37 x 207mm (4.9" x 1.5" x 8.2") • Net Weight: 0.45 kg (1.0 lbs)

I/O Rack



.............................

Software

@Dante

for DSP-RX/DSP-RX-EX/CSD-R7/RPio622/RPio222





L2 Switch



SWP2-10SMF

The SWP2 series L2 switch is ideal for Dante 96kHz network systems. It features 10 etherCON ports and two single mode fiber opticalCON ports.

SWP2-10MMF

The SWP2 series L2 switch is ideal for Dante 96kHz network systems. It features 10 etherCON ports and two multi mode fiber opticalCON ports.

SWP1-16MMF

The SWP1 series L2 switch is ideal for Dante network systems. It features 12 etherCON ports, four RJ45 ports, one opticalCON port, and an option slot for one more port as needed.

SWP1-8MMF

The SWP1 series L2 switch is ideal for Dante network systems. It features eight etherCON ports, one opticalCON port, and an option slot for one more port as needed.

SWP1-8

The SWP1 series L2 switch is ideal for Dante network systems. It features eight etherCON ports, one opticalCON port, and option slots for two more ports as needed.

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.

MonitorMix

The MonitorMix application for the RIVAGE PM Series allows individual wireless MIX / MATRIX / AUX mixing from Android or iOS device.



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 (CS-R10)	RIVAGE PM10 (CS-R10-S)	RIVAGE PM7 (CSD-R7)	RIVAGE PM5 (CS-R5)	RIVAGE PM3 (CS-R3)			
	1	DSP-RX	120	120	-	120	120			
	Input Mixing	DSP-RX-EX	288	288	-	288	288			
	channels	Internal	-	-	144	-	-			
		DSP-RX	48	48	-	48	48			
	Mix Buses	DSP-RX-EX	72	72	-	72	72			
ng		Internal	-	-	60	-	-			
pacity	DSP-RX		24 (Input to Matrix supported)	24 (Input to Matrix supported)	-	24 (Input to Matrix supported)	24 (Input to Matrix supported)			
	Matrices DSP-RX-EX		36 (Input to Matrix supported)	36 (Input to Matrix supported)	-	36 (Input to Matrix supported)	36 (Input to Matrix supported)			
		Internal	-	-	36 (Input to Matrix supported)	-	-			
	Stereo buses		2	2	2	2	2			
	mono buses		1	1	1	1	1			
	cue bus		2	2	2	2	2			
		in	8 (SILK)	8 (SILK)	8 (SILK)	8	8			
	Analog	out	8	8	8	8	8			
	D: :: 1	AES IN	4	4	4	4	-			
	Digital	AES OUT	4	4	4	4	-			
	F : 01 /	HY	4 (DSP-RX/-EX)	4 (DSP-RX/-EX)	3	4 (DSP-RX/-EX)	4 (DSP-RX/-EX)			
	Expansion Slot	MY	2+2(DSP-RX/-EX)	2+2(DSP-RX/-EX)	2	2+2(DSP-RX/-EX)	2+2(DSP-RX/-EX)			
	0.01	IN	8	8	8	8	8			
	GPI	ONT	8	8	8	8	8			
	Word clock		IN/OUT	OUT	IN/OUT	-	-			
_	MIDI		IN/OUT	IN/OUT	IN/OUT	IN/OUT	IN/OUT			
I .		File	4	4	4	4	4			
nectors	USB	rec/play	1	1	1	1	1			
	External Redun		Built-in dual power supply	Built-in dual power supply	Built-in dual power supply	Built-in dual power supply	Built-in dual power supply			
	Meter Bridge		On screen	On screen	On screen	On screen	On screen			
	Lamp		4	3	4	3	2			
	Talkback In		Yes	Yes	Yes	No	No			
	Video Out		Yes	Yes	Yes	No	No			
	TC In		Yes (DSP-RX/-EX)	Yes (DSP-RX/-EX)	Yes	Yes (DSP-RX/-EX)	Yes (DSP-RX/-EX)			
	Fault Output		Yes (DSP-RX/-EX)	Yes (DSP-RX/-EX)	Yes	Yes (DSP-RX/-EX)	Yes (DSP-RX/-EX)			
	Phones		2 x 2 connectors	2 connectors	2 connectors	2 connectors	1 connectors			
	AC Inlet		2 (V-Lock Type)	2 (V-Lock Type)	2 (V-Lock Type)	2 (V-Lock Type)	2 (V-Lock Type)			
	Number of Sce	nes	1000	1000	1000	1000	1000			
	Recall Safe		Yes	Yes	Yes	Yes	Yes			
	Focus Recall		Yes	Yes	Yes	Yes	Yes			
	Fade Time		Yes (0s ~ 60s)	Yes (0s ~ 60s)	Yes (0s ~ 60s)	Yes (0s ~ 60s)	Yes (0s ~ 60s)			
	Preview		Yes	Yes	Yes	Yes	Yes			
ene	Selective Load / Save		Yes	Yes	Yes	Yes	Yes			
iory	Global Paste	,	Yes	Yes	Yes	Yes	Yes			
	Event List		Yes	Yes	Yes	Yes	Yes			
	Overlay		Yes	Yes	Yes	Yes	Yes			
	Isolate		Yes	Yes	Yes	Yes	Yes			
	Tactile Control	Kevs	Yes	Yes	Yes	Yes	Yes			
	Gain Compensa		Yes							
	Silk		Yes (with RPio)							
	Digital Gain		Yes (-96dB ~ +24dB)							
	ATT		Yes							
	HPF		20Hz~2000Hz, -6/-12/-18/-24dB/oct Selectable							
	PEQ		4 Band Full PEQ (4 algorithms, RTA overlay support)							
	Dynamics 1		Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking							
nel	Dynamics 2		Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking Legacy Comp / Comp260 / Gate / De-Esser / Expander / Ducking							
tions	Input Delay				Yes (0ms ~ 1000ms)	act / E doking				
	Pan			· · · · · · · · · · · · · · · · · · ·	Center Nominal					
	DCA Group				24 (Output DCA support)					
	DCA Group				Yes					
	MUTE Crown		12							
	MUTE Group Number of Inse	rto	4 slots on each 2 insert point							

Output Channe tput (Functions ITE Gr umber o Plug-in mber **GEQ** Rack intable TWINLANe nhor Dante nhori B Mem ecordin /S Recor Surro Broadcast Functions ound ix Minus Mono / olo Mod onito scillato Port to Po Dual Conso DSP Mirro mecode mecode Other PI/MIDI Functions TA Dutput Po Mix/Matr Sub In heatre N Display Centralog Faders Selected Channel I User Interface Channel I Custom F User Defi User Defin ouch an Ionitor I bder litor tageMix Software **Jonitor**M Accessories

es 1 Legacy Comp / Channel Delay roup of Inserts of Slots DSP-RX / Internal 384 384 of Effect Programs More than 50 More than 50 of GEO Racks	8 Band Full PEQ Plug-in 7 Comp260 / Gate / De-Esser / Expan Yes (Oms ~ 1000ms) 12 4 slots on each 2 insert point 384 - More than 50 48 / Flex15GEQ / 8Band PEQ (RTA over	nder / Ducking 384 512 More than 50	384 512							
Delay Second State roup of Inserts of Slots DSP-RX / Internal DSP-RX-EX 512 of Effect Programs More than 50	⁷ Comp260 / Gate / De-Esser / Expan Yes (Oms ~ 1000ms) 12 4 slots on each 2 insert point 384 - More than 50 48	384 512								
Delay Second State roup of Inserts of Slots DSP-RX / Internal DSP-RX-EX 512 of Effect Programs More than 50	Yes (0ms ~ 1000ms) 12 4 slots on each 2 insert point 384 - More than 50 48	384 512								
DSP-RX / Internal 384 384 of Slots DSP-RX / Internal 384 512 of Effect Programs More than 50 More than 50	12 4 slots on each 2 insert point 384 - More than 50 48	512								
of Inserts DSP-RX / Internal 384 384 of Slots DSP-RX-EX 512 512 of Effect Programs More than 50 More than 50	4 slots on each 2 insert point 384 - More than 50 48	512								
DSP-RX / Internal 384 384 DSP-RX-EX 512 512 of Effect Programs More than 50 More than 50	384 - More than 50 48	512								
of Slots DSP-RX-EX 512 512 of Effect Programs More than 50 More than 50	- More than 50 48	512								
DSP-RX-EX 512 512 of Effect Programs More than 50 More than 50	48		512							
	48	More than 50								
of GEQ Racks	-		More than 50							
	/ Elay15GEO / 8Band PEO (PTA over									
		lay support)								
of I / O Channels	256 in / 256 out (with HY256-TL)									
of I / O Channels	144 in / 144 out (with HY144-D)									
mory Recording	Yes									
cording	Yes (with HY144-D)									
und Panning Yes Yes	Yes	Yes	Yes							
d Monitor Yes Yes	Yes	Yes	Yes							
IS Yes Yes	Yes	Yes	Yes							
/ R-Mono / LR-Mono No No	No	No	No							
de	Yes									
	1ch / Sine Wave 2ch / Pink Noise / B									
ort Yes Yes	Yes	Yes	Yes							
nsole Yes Yes	Yes	Yes	Yes							
roring Yes Yes	No	Yes	Yes							
e Reader/Display Yes Yes	Yes	Yes	Yes							
e Chase (Event List) Yes Yes	Yes	Yes	Yes							
I Yes Yes	Yes	Yes	Yes							
Yes Yes	Yes	Yes	Yes							
Port Delay Yes (0ms ~ 1000ms) Yes (0ms ~ 1000ms)	Yes (0ms ~ 1000ms)	Yes (0ms ~ 1000ms)	Yes (0ms ~ 1000ms)							
rix to Input Yes Yes	Yes	Yes	Yes							
Yes Yes	Yes	Yes	Yes							
Mode Yes Yes	Yes	Yes	Yes							
15 inch Touch Panel x 2 15 inch Touch Panel x 1	15 inch Touch Panel x 2	15 inch Touch Panel x 3	15 inch Touch Panel x 1							
gic Section Yes Yes	Yes	Yes	Yes							
12 + 12 + 12 + 2 12 + 12 + 2	12 + 12 + 12 + 2	12 + 12 + 12 + 2	12 + 12 + 12 + 2							
I Channel Encoders All Parameters All Parameters	All Parameters	Dynamics, GAIN, HPF, EQ, PAN, Function Knob	Dynamics, GAIN, HPF, EQ, PAN, Function Knob							
Encoder Yes Yes	Yes	Yes	Yes							
Name / Color Display Yes Yes Yes	Yes	Yes	Yes							
Fader Banks Yes (6 x 5 on each bay) Yes (6 x 5 on each bay)	Yes (6 x 5 on each bay)	Yes (6 x 5 on each bay)	Yes (6 x 5 on each bay)							
ined Keys 12 (x 4 banks) 12 (x 4 banks)	12 (x 4 banks)	12 (x 4 banks)	12 (x 4 banks)							
ined Knobs 4 (x 4 banks) 4 (x 4 banks)	4 (x 4 banks)	3 (4 x 4 banks can be assigned)	1 (4 x 4 banks can be assigned)							
nd Turn Knob Yes (2) Yes (1)	Yes (2)	Yes (3)	Yes (1)							
Level Knob Yes (2: A and B) Yes (2: A and B)	Yes (2: A and B)	Yes (2: A and B)	Yes (2: A and B)							
Arm Rest Yes Yes	Yes	Yes	Yes							
	RIVAGE PM Editor	· · · · · · · · · · · · · · · · · · ·								
X	RIVAGE PM StageMix									
Mix	Yes (V4.0 or later)									
File Converter	Yes									
Dust cover, Dust cover, Gooseneck Lamp LA1L x 4 Gooseneck Lamp LA1L x 3	Dust cover, Gooseneck Lamp LA1L x 4	Dust cover, Nuendo Live	Dust cover, Nuendo Live							

SYSTEM COMPONENTS AND CONFIGURATION

Dante System

System Example 1

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. The DSP-RX/DSP-RX-EX DSP Engine or CSD-R7 control surface 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. 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.

TWINLANe System

System Example 2







In a RIVAGE PM system, each DSP Engine 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.

The CS-R3 Control Surface originally designed for use with the RIVAGE PM3 can also be connected to other RIVAGE PM system to serve as a sidecar for fader expansion and/or multi-operator control.



YAMAHA CORPORATION P.O.BOX1, Hamamatsu Japan

http://www.yamahaproaudio.com/

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