



DIGITAL MIXING CONSOLE

DM7 SERIES

GO ABOVE AND BEYOND

More than 30 years since the release of Yamaha's first digital mixer, the DMP7, the landscape of professional audio has seen a steady progression in technological advancements and innovations that have impacted mixing and recording styles significantly. DM7 series mixing consoles represent a sizable step forward in this evolution of form, functionality, and flexibility with their intuitive UI, compact design, and comprehensive suite of powerful features that allow them to outperform other mixers in their class in an impressive range of audio environments. From broadcasting, streaming, and music production, to live hybrid events and concert performances, the advanced capabilities of the DM7 series set a new standard in operability and workflow while simultaneously staying true to Yamaha's sonic tradition of "natural sound". As the times continue to change, your DM7 will keep you ahead of the curve with a user experience that's a cut above anything in its class, and sonic performance well beyond the expectations of audiences and engineers alike.



LIVE SOUND



PAC/THEATER



HOW



STADIUM/ARENA



CORPORATE EVENT



STREAMING



BROADCAST



PRODUCTION



Throughout Yamaha's long history of developing state-of-the-art digital mixers, there is one concept that we have consistently adhered to—the ideal starting point for sound creation is a totally natural, or “transparent” sound. This concept of natural sound is exemplified by the DM7 series high-end input section, producing a high-fidelity, uncolored sound that serves as the engineer's canvas to color, shape, and recreate, using the DM7 series built-in plug-ins, EQ, and dynamics. All in all, the DM7 series has evolved in every aspect to help engineers create their ideal sound.



OFF TO A SOLID START



It all starts with your sound, and if the input section of your mixer is compromised or lacking in any way, your mix isn't likely to meet your, or your audience's expectations. To meet our own very strict standard of sound quality, the inputs of Yamaha consoles and I/Os are meticulously designed and constructed. We take every aspect of the initial input stage into consideration in order to achieve our signature “transparent sound”, from the individual components, power supply, and grounding, to the circuit layout, and mechanical structure of the inputs. In addition, the DM7 series supports sample rates up to 96kHz for superior, high-resolution sound quality.

POWERFUL CHANNEL STRIP

The DM7 series Channel Strip is equipped with numerous advanced functions for convenient, intuitive sound creation. In addition to the Channel EQ inherited from the RIVAGE PM, the newly added FET Limiter and Diode Bridge Compressor offer expanded dynamics control, while the new “History” function combines with the existing comps and gates for easier and more precise dynamics adjustment than ever. The “Mix Balance” parameter is yet another new function that allows you to easily mix the original sound with a compressed sound and apply parallel compression. In addition, the order of EQ and Dynamics 2 can now be changed to suit your creative preferences, further expanding the range of sound creation.

The DM7 series also features the Dan Dugan automatic mixer with up to 64 channels in the channel strip as a standard feature. In cooperation with Dan Dugan Sound Design, a US company renowned for its proprietary algorithm-based automatic microphone mixer, the automatic mixer function can be conveniently accessed from the channel strip without the need for EQ RACK resources.

The input meters now also include a histogram display to help adjust HA levels.



EXTENSIVE PLUG-INS AND NEW EFFECTS

The DM7 series is equipped with an extensive suite of plug-ins to accommodate a wide range of applications, including VCM models of the renowned Portico 5033 equalizer and Portico 5043 compressor/limiter— both developed through close cooperation with Rupert Neve Designs. Also included are Yamaha's original plug-ins, such as the DaNSe dynamic noise suppressor, and the Dynamic EQ, which are well known among audio engineers. The FX RACK features high-quality multi-effects processors with forty-three types of high-grade effects including the newly equipped REV HD and REV R3 to inspire a broader depth of creative sound reproduction.



Yamaha digital mixers are known for offering a high level of operability that professional users demand, staying up to date with the constantly evolving state of the art. The M7CL offers analog-like operability; the CL series, a more refined operation with a brushed-up version of Centralogic; and the DM7 series puts an emphasis on intuitive operation and high efficiency via multiple displays and an advanced Selected Channel View.



OPERABILITY

ADVANCED GUI FOR INTUITIVE CONTROL



The DM7 series advanced graphical user interface is an audio engineer's delight, offering the ultimate in touch operation convenience that gives users instant intuitive access to the console's impressive depth of functionality. The Selected Channel View, which provides a list of operational information on the channel strip, retains the best aspects of previous GUI's but with an updated operation format that requires fewer steps and less time than ever before.

The same familiar touch screen operation that you use in your daily life is now available on your mixer.

ADVANCED SELECTED CHANNEL VIEW AND VISIBLE OVERVIEW

The DM7 series inherited the Selected Channel View and Overview from the RIVAGE PM series, but also features an updated, more intuitive operation, suitable for the increasing demands of the current state of the art. The Selected Channel View provides a list of important information for each individual channel, giving you quick access to the parameters you want to adjust. It

also incorporates the advantages of touch panel operation to reduce the number of steps required to carry out tasks. Overview, which enables analog console-like operation, is also still available. It lists information on multiple channels, allowing quick access to the parameters of the channel you're using.



CONFIGURE THE IDEAL DM7 SYSTEM TO SUIT YOUR WORKFLOW



The DM7 series ranges from the full-featured DM7-EX, which combines a large 2-bay DM7 with a DM7 control panel equipped with a physical controller, to the rack-mountable DM7 Compact, which is powerful and flexible despite its compact size. With four DM7 systems in total, bundled software, controllable devices, and more, this versatile lineup makes it easier than ever to find the perfect fit for your mixing style, environment, and workflow.

UTILITY SCREEN FOR STREAMLINED PERFORMANCE



The DM7 series multiple touch screens provide fast, intuitive operability that will make your mixing experience easier and more enjoyable. The large 12-inch screen provides convenient operation that will allow you to focus more energy on sound creation, and includes the Selected Channel View which ensures all the relevant mixing information you need is close at hand. The newly added 7-inch Utility screen allows you to monitor essentials such as Scene List, User Defined Keys, and Meter at all times for quick and efficient operation.

YOUR SETTINGS IN YOUR LANGUAGE

The DM7 series features a multi-language option for individual channel names enabling more comfortable and intuitive operation. Displaying the names of artists and instruments in native languages will also help operators with limited audio production or sound reinforcement experience to operate the system.



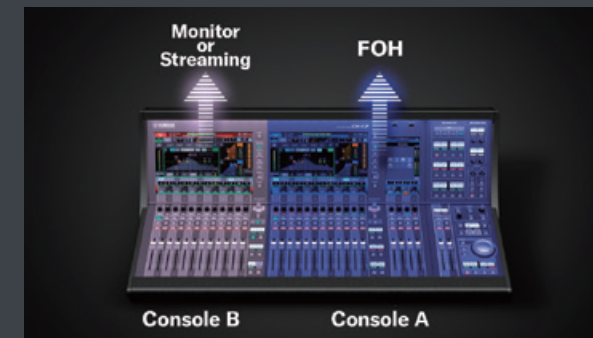
* Multi-language channel names can be inputted via the Editor or StageMix.

Engineers are required to deftly respond to the various demands of each artist and client on a daily basis to deliver the best sound possible to their audiences. Yamaha has enabled the DM7 series with cutting-edge technologies that allow engineers to focus on being creative in a limited time frame and establish a fast and efficient workflow without compromise.



FUNCTIONALITY

SPLIT MODE TURNS ONE CONSOLE INTO TWO MIXERS



Split Mode allows you to use one mixer as if it were two. Even if you only have one DM7 series console due to space limitations, you can mix FOH and Monitor, or FOH and Streaming, etc. just as you would with two separate consoles.

VERSATILE USB CONNECTION



The DM7 series USB Type-C connector provides 18 in/out audio interface functions for recording, streaming, playback, connection to conferencing systems, and more. It also enables additional functionality with MIDI Control, and DAW Remote features to expand your sound creation toolbox and streamline your workflow.

“ASSIST” LETS YOU FOCUS YOUR CREATIVITY



Yamaha digital mixers have always evolved along with emerging technologies, and perhaps even more importantly, we have adapted a lot of their functionality and operability in response to feedback and input from the people that use our mixers on a daily basis. The DM7 series newly added “Assist”, is an efficient new feature that takes care of important, but more procedural tasks, allowing operators to hone their creative workflow. Assist is a function that “suggests” HA adjustment, naming, and balanced fader levels—all audio engineering essentials—to help engineers focus on more creative work and communication, thereby reducing setup and preparation time. HA Assist suggests a suitable HA level according to the input signal level, Naming Assist uses input signal information to suggest an icon/channel name for each channel, and Fader Assist suggests fader balance for the assigned channel. These suggestions will continue to evolve based on your feedback and recommendations.

DAW REMOTE FOR EFFICIENT AUDIO PRODUCTION



The DM7 series is the perfect mixer for music production and audio recording using a DAW. The DAW Remote function allows operations such as volume control, playback, stop, and more, to be performed using physical controllers such as the unit’s faders and keys, providing smooth operation for audio production and recording applications. DAW Remote Mode can be accessed by simply pressing fader bank DCA and selecting DAW Remote.

DANTE INTERFACE FOR HIGH CHANNEL COUNT AND FLEXIBLE CONNECTIVITY



The DM7 series offers 144ch in/out via Dante, a combination of software, hardware and networking protocols which has become an industry standard, adopted and integrated into audio equipment from professional audio manufacturers. Dante allows for the transmission of hundreds of audio channels over a single Ethernet cable, allowing you to build a powerful system with a flexible and expandable network without having to worry about the number of channels in any field. Of course, HA Remote and device control are also supported, and the Device Mount function allows for easy patching and control with Dante enabled equipment.

REDUNDANT POWER SUPPLIES FOR SERIOUS RELIABILITY



Power failure is a major risk when operating any professional audio device so we’ve equipped the DM7 series with dual power supply units to reduce the risk of power loss resulting in downtime during a show. If a problem occurs with one power source, operation will continue unaffected as long as the second power source is active.

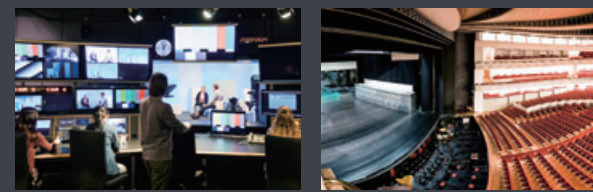


Choosing and configuring an ideal system setup depends on the operator, the venue, and the type and magnitude of an event. The DM7 series allows users to tailor their system to their preferences and to streamline their workflow with compatible devices and dedicated software.

EXPANDABILITY

BROADCAST PACKAGE AND THEATRE PACKAGE FOR ENHANCED, SPECIALIZED CONTROL

Valuable, specialized features can be accessed by adding the Broadcast Package/Theatre Package. The Broadcast Package includes 5.1 surround support, Mix Minus, Loudness Meter, and other functions required for broadcast applications and used conveniently in broadcast mixes. The Theatre Package provides features that can be used effectively in musicals and other theatrical applications, including Actor Library, DCA Scene Grid, AFC Image Control, and other functions which can enhance mixing in theatrical applications significantly.



PY SLOT FOR EXPANSION CARDS

The DM7 series is equipped with an up to 64 in/out PY slot that allows users to customize the console's functionality and connectivity. The PY64-MD, which supports 64-in 64-out audio input/output via MADI, the PY8-AE with 8-in 8-out AES/EBU D-sub 25-pin connector, and the PY-MIDI-GPI, which has a DIN 5-pin and D-sub 15-pin connectors to expand MID/GPI control terminals, all providing flexible support for a variety of systems.



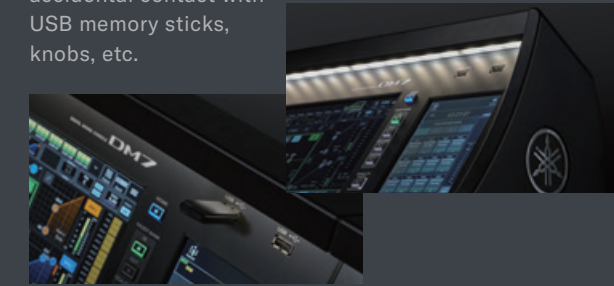
COMPATIBLE SOFTWARE FOR CONVENIENT CONTROL

In recent years, it has become common for digital mixing consoles to enable wireless mixing, monitor mixing, offline advance preparation, and remote control using a variety of applications. The DM7 series offers dedicated applications DM7 Editor and DM7 StageMix, as well as the Yamaha applications MonitorMix, ProVisionaire Control, and ProVisionaire Touch. The DM7 series is also equipped with an OSC (Open Sound Control) Server function, allowing control of the DM7 series from OSC-compatible devices.



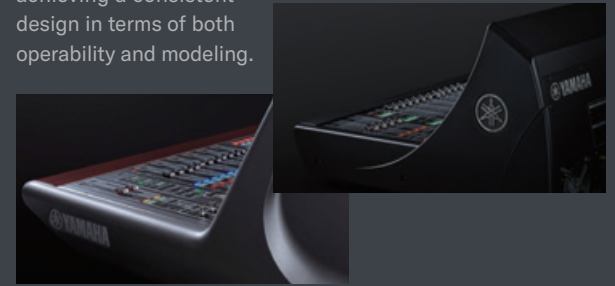
FUNCTIONAL AND ATTRACTIVE LAYOUT

Strip lights illuminate fader surfaces to give engineers an advantage in darkened live venues. However, conventional mixing consoles have lacked a sense of uniformity with the strip lights often protruding unattractively. With the DM7 series, we designed the side pad connecting the strip light and fader surfaces with a smooth curve, creating a sense of unity. The shape of the side pad prevents light leakage from the strip light while serving as a guard to prevent accidental contact with USB memory sticks, knobs, etc.



CONSISTENT USER EXPERIENCE

Mixing engineers must set up, and create the best sound possible within a tight timeframe, but because the environment and equipment used varies from venue to venue, a console that is difficult to operate can increase workload. The DM7 series layout of buttons and knobs, functions, and graphics all adopt interface standards from other Yamaha series mixers for a familiar feel. The DM7 series also inherits the smooth lines of the RIVAGE PM, CL, and QL consoles achieving a consistent design in terms of both operability and modeling.



COMPACT AND LIGHTWEIGHT CONSTRUCTION FOR EASY SETUP AND TRANSPORT

Ease of transport and a fast setup are among the most important features for mixing consoles in most environments and applications. With the DM7 series, the angle of the display, the pitch of the faders and buttons, and the position of the strip lights have all been carefully designed to maintain the high operability and visibility of the display in a compact chassis. The DM7 Compact can also be rack-mounted by removing the side pads, making the most of limited space at live sites.



Audio Engineers are far more than just concert staff doing "background work". They may not be on stage, but they are an integral part of a live performance and require a high level of expertise, broad experience, and a sophisticated musicality that supports the artists' musical expression. Yamaha has been manufacturing musical instruments for over 130 years, and it is always a consideration during the design process to not only make a great sounding, eminently playable instrument, but also to focus on the form and aesthetic and how it will complement the artist playing it. In the DM7 series, we designed the consoles to be easy to operate so that mixing engineers can use them confidently and creatively even in challenging situations, while at the same time making them look sleek and attractive when they are being operated by the engineering artist helping them.

DESIGN

Systems

LIVE SOUND (+STREAMING)

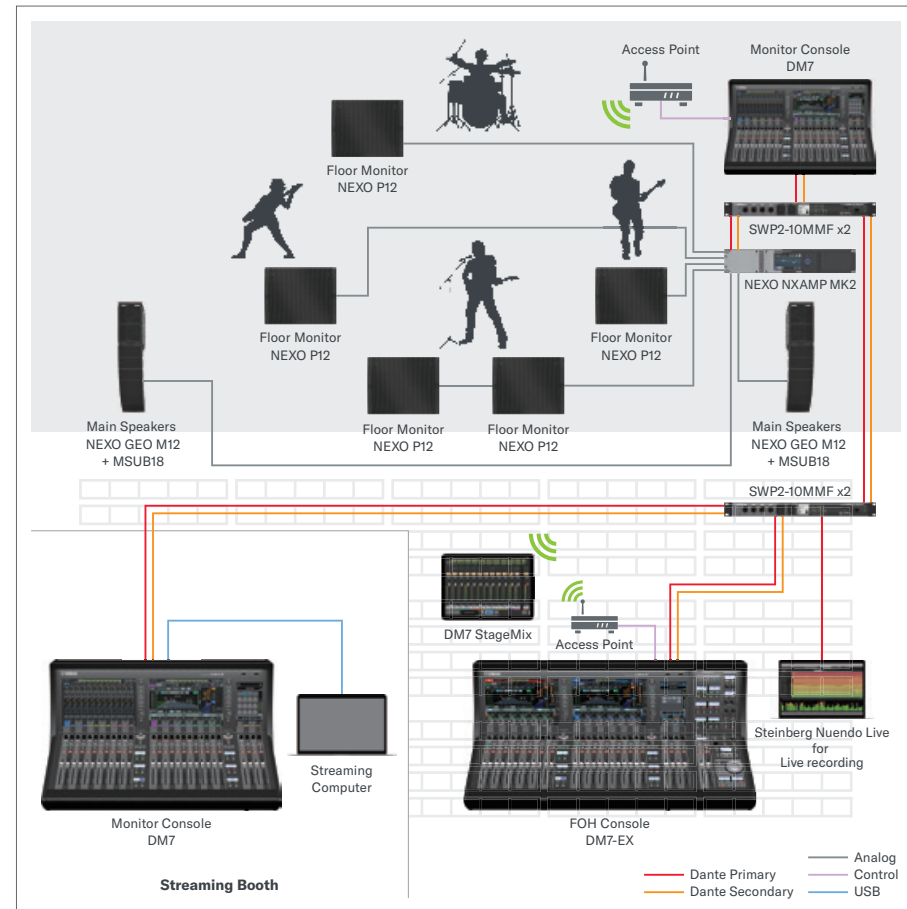
Create simple custom live sound systems with Dante

The DM7 series keeps system design simple with Dante—even live sound systems with multiple consoles.

Each piece of equipment is connected with thin, lightweight Ethernet cables.

The Port to Port function is used to turn the local inputs of the DM7 for the monitors into a stage box for connecting other mixers via Dante to cut down on equipment.

The gain compensation function makes it possible to adjust the levels from each console. Also, installing the bundled Steinberg Nuendo Live software on computers connected via Dante facilitates live recordings.



HOUSE OF WORSHIP

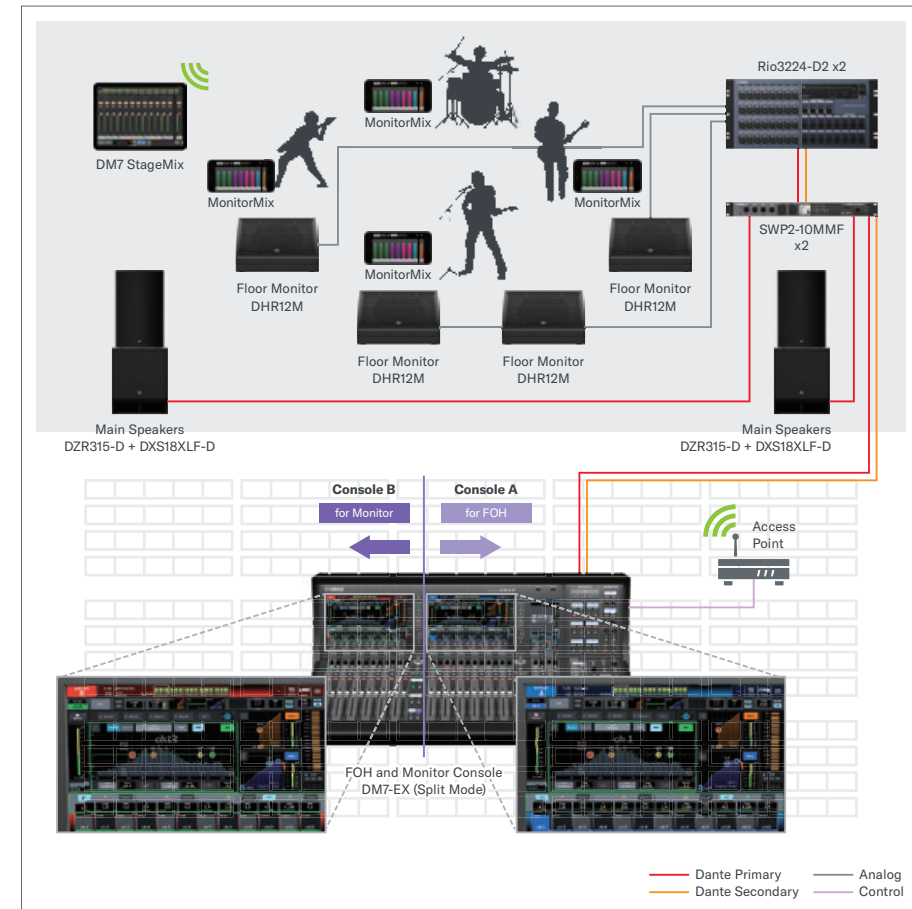
Split mode enables FOH and monitor mixing

The functions of the DM7 paired with the sound systems of smaller churches make announcing efficient and easy with minimal equipment.

A DM7 installed in the FOH booth can be used in split mode to turn it into a combination FOH-monitor mixer and put together a range of Scenes individually. MonitorMix can be used to give artists the power to adjust their own monitors to their liking.

The HA, Naming, and Fader Assist functions offer help and save time when less-experienced volunteers are at the controls.

Control and monitoring of I/O and DZR speakers can be performed directly on the mixer, centralizing system management.



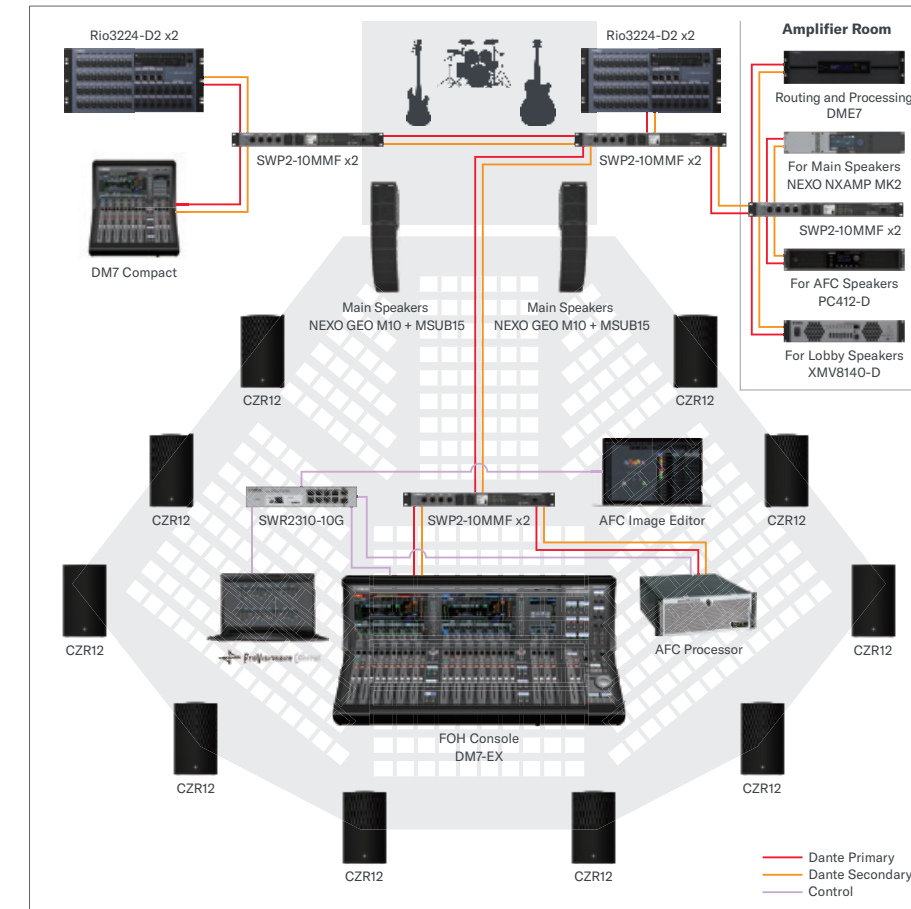
THEATER

DM7 readily accommodates large systems

The DM7 series features a Theatre Package, a controller with physical controls, and two differently sized consoles that give engineers and venues the ability to create their ideal systems.

In the system shown here, the engineer uses AFC Image, utilizing the DM7-EX panner for smooth control of the hall's immersive sound.

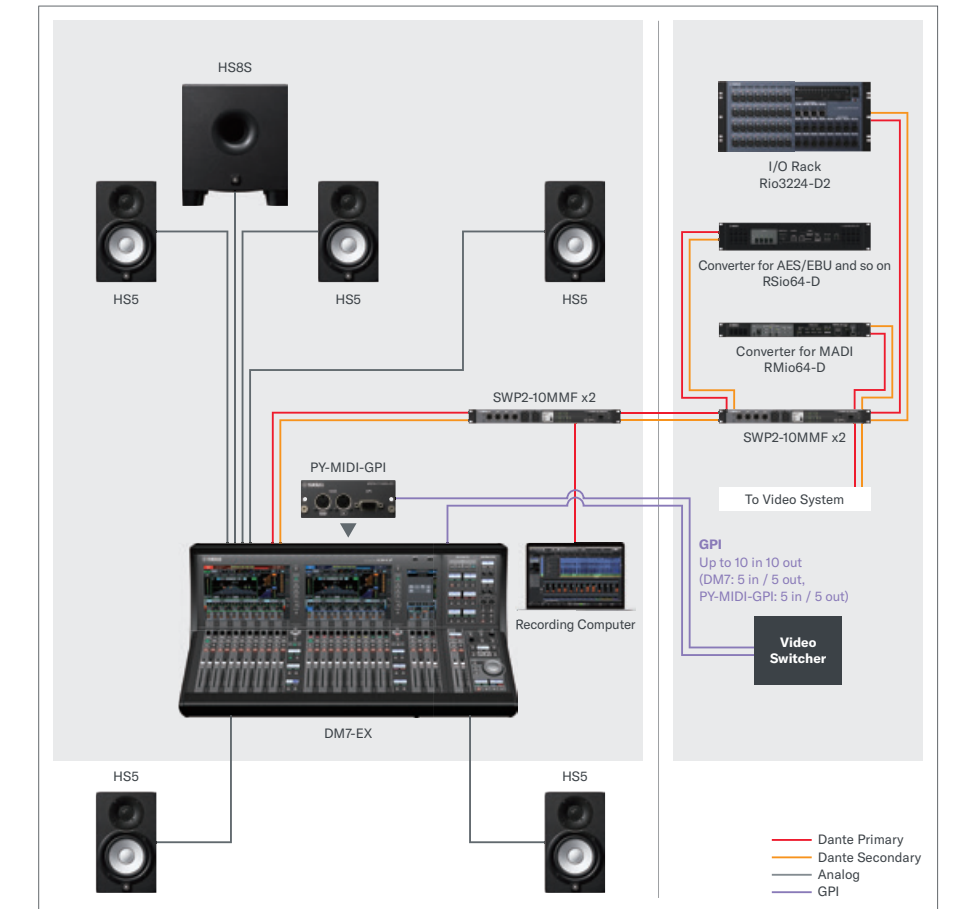
All equipment is connected via Dante, and ProVisionaire Control can be used for control.



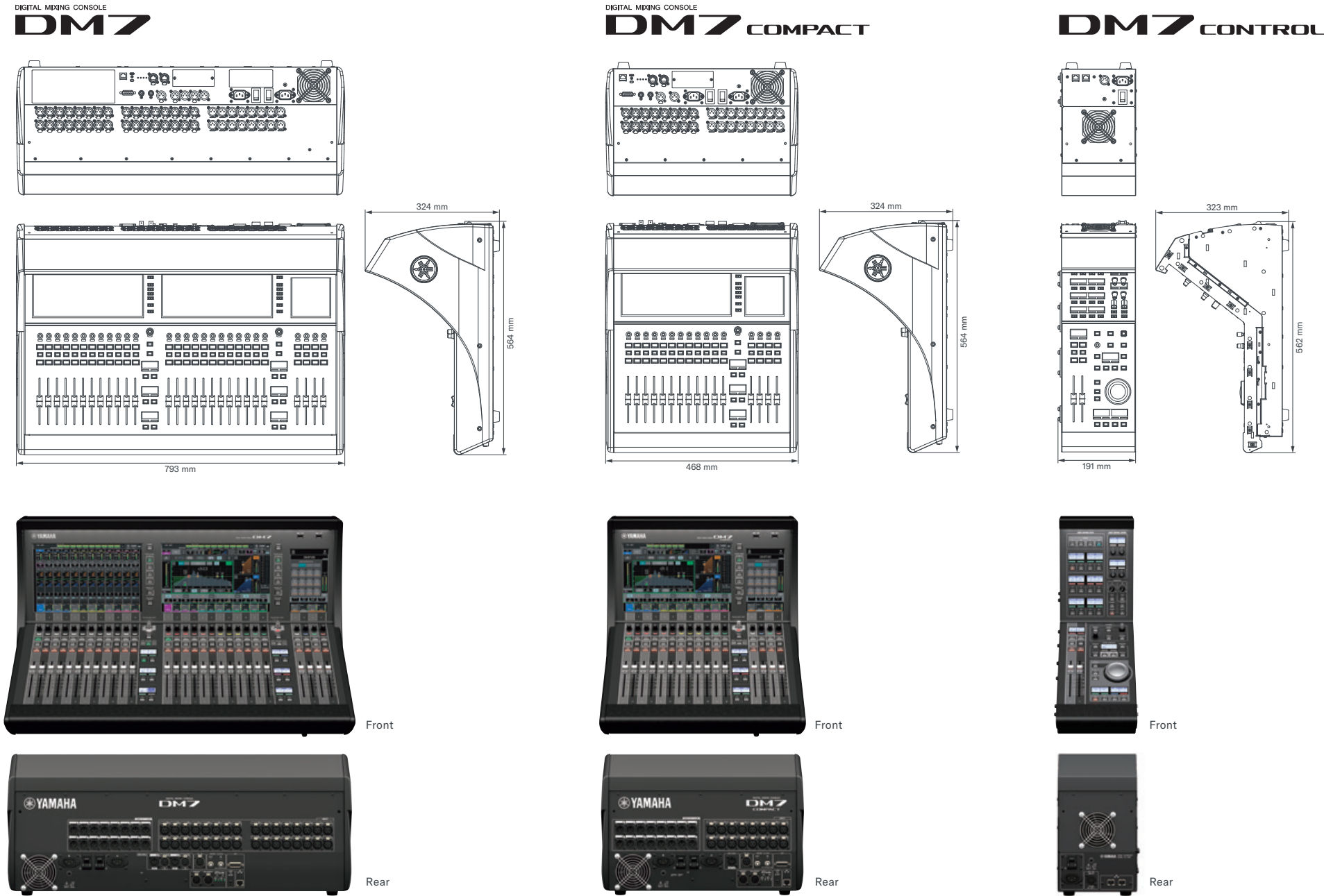
BROADCAST (OB VAN)

Improved workflow with a full lineup of broadcast functions that belie the compact size of the DM7-EX.

The wide range of controls and Broadcast Package of the provide audio mixing systems with a variety of functions, including 5.1 Surround mixing, monitor control, and an Audio Follow Video function that ties audio to video by following tally signals via GPI. Enjoy flexible connectivity through conversion to different formats enabled by a Dante backbone network.



Dimensions



Related Software / Application



DM7 Editor

The DM7 Editor is a standalone application for computers running Windows or Mac operating systems, for both extended online operation and offline setup and editing.



DM7 StageMix



DM7 StageMix is an iPad application that enables remote control of the DM7 series through a simple and intuitive graphical interface. The engineer can control the mix parameters from the performer's position on the stage.



MonitorMix



The MonitorMix application for iOS and Android devices puts control of each performer's monitor mix into the palm of their own hand.



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.



ProVisionaire Control/Touch

The ProVisionaire Control/Touch are software that allows you to create control panels tailored to your installation and operation methods to remotely control and monitor your equipment.

Bundled Software



VST Rack Elements

The VST Rack Elements software is plug-in host software that uses VST plug-ins, letting you create the exact effect rack you want.

Related Product



Rio3224-D2

Rio3224-D2/ Rio1608-D2

The second generation of R series Dante-enabled I/O Racks (AD/DA) offers significant advances in sound, reliability, and visual status confirmation. They can be used with the DM7 series, as well as the RIVAGE PM digital mixing system and the CL and QL series digital mixing consoles.



Rio1608-D2



SWP2-10SMF

SWP2 series

The SWP2 series network switch with 10G uplink ports allows a Dante optimized setup and VLAN presets to be recalled by flipping DIP switches.

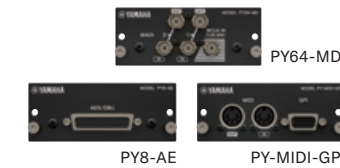


SWP2-10MMF



RK1

Rack mount kit for DM7 Compact.



PY64-MD

PY8-AE

PY-MIDI-GPI

PY64-MD/PY8-AE/PY-MIDI-GPI

The PY card is an optional interface card for the DM7 series, allowing easy communication via MADI, AES/EBU and extending control connections in MIDI/GPI.



Nuendo Live

Nuendo Live is a solution designed especially for live-recording engineers, production houses and rental companies which puts an emphasis on reliability, user-friendly operation and superior sound quality.

General Specifications

		DM7	DM7 Compact
Mixing Capacity		120 Inputs, 48 Mix + 12 Matrix + 2 Stereo	72 Inputs, 48 Mix + 12 Matrix + 2 Stereo
Sampling Frequency		48 kHz / 96 kHz	
Signal Delay		Less than 1.5 ms, INPUT to OMNI OUT @Fs=96 kHz	
Screen		12.1" multi-touch screen × 2, 7" multi-touch screen × 1	12.1" multi-touch screen × 1, 7" multi-touch screen × 1
Fader		100 mm touch-sensitive motorized fader × 28	100 mm touch-sensitive motorized fader × 16
Power Requirements		100-240 V, 50/60 Hz	
Power Consumption		240 W	
Dimensions (W x H x D)		793 mm × 324 mm × 564 mm (31.3" x 12.8" x 22.2") including the rubber feet	468 mm × 324 mm × 564 mm (18.5" x 12.8" x 22.2") including the rubber feet
Weight		23.5kg (51.8 lbs)	16.5kg (36.4 lbs)
NC Value *1	Fan Speed LOW	NC=20	
	Fan Speed HIGH	NC=30	
Operating Temperature Range		Min: 0°C, Max: 40°C	
Storage Temperature Range		Min: -20°C, Max: 60°C	
Accessories		Owner's Manual, AC power cord ×2, Dust cover, Cable hook, Nuendo Live and VST Rack Elements Download Information leaflet	
Optional Items		PY cards, DM7 Control (CTL-DM7)	PY cards, DM7 Control (CTL-DM7), Rack Mount Kit RK1

*1. Measured 30 cm horizontally away and vertically up from the unit (front pad).