**M7CL Specifications**

### General Specifications

**Samplin Frequency**
- Internal: 44.1 kHz, 48 kHz
- External: 44.1 kHz (48 kHz for M7CL-32/48)

**Input Impedance**
- 3 kΩ (Microphone/Stereo Phone Jack)
- 50-600 Ω (Mics & Lines)

**Output Level**
- +10 dBu (6.16 V)
- –2 dBu (616 mV)
- –6 dBu (6.16 mV)
- –12 dBu (616 µV)

**Nominal Output Level**
- +10 dBu (6.16 V)
- +30 dBu (24.5 µV)

**Max. Output Level**
- +24 dBu (12.28 V)

**Actual Source Impedance**
- 15 kΩ (Actual Load)
- 75 kΩ (Nominal)

**Actual Load**
- 65 mW
- 150 mW

**Sensitivity**
- –82 dBu (61.6 µV)
- –62 dBu (0.616 mV)
- –42 dBu (6.16 mV)

**Gain**
- –10 dBu (245 µV)
- –2 dBu (616 mV)
- +10 dBu (2.45 µV)
- +30 dBu (24.5 µV)

**Actual Load**
- –70 °C to +120 °C

**Relative Humidity**
- 20% to 80% RH

**Dimensions**
- M7CL-32: 1,060 (41 6/8) × 286 (11 2/8) × 701 (27 5/8) mm
- M7CL-48/48ES: 1,274 (50 2/8) × 286 (11 2/8) × 701 (27 5/8) mm

**Weight**
- M7CL-32: 42 kg (92.59 lbm)
- M7CL-48: 50 kg (110.23 lbm)
- M7CL-48ES: 46 kg (101.41 lbm)

**Power Requirements**
- M7CL-32: 250 W, 100V 50/60 Hz
- M7CL-48: 300 W, 100V 50/60 Hz
- M7CL-48ES: 150 W, 100V 50/60 Hz

**Temperature Range**
- –10 °C to +35 °C

**Operating Altitude**
- Less than 2,000 m

**Power Supply**
- PW800W, Power Supply Link Cable PSL360

### Analog Input Characteristics

**Actual Listed Impedance**
- 3 kΩ

**For Use With Mics & Lines**
- 50-600 Ω

**Gain SW**
- XLR-3-31 type

**For D-Sub Connector 9P (Male)**
- –82 dBu (61.6 µV)
- –62 dBu (0.616 mV)
- –42 dBu (6.16 mV)

**Connector**
- XLR-3-31 type (Balanced) *1

**Actual Source Impedance**
- 15 kΩ

**Sensitivity**
- –82 dBu (61.6 µV)
- –62 dBu (0.616 mV)
- –42 dBu (6.16 mV)

**Actual Load**
- 65 mW

**Headphones**
- 75 Ω

**Sensitivity**
- –10 dBu (245 µV)

**Nominal Output Level**
- +10 dBu (6.16 V)

**Max. Before Clip**
- +18 dBu (6.16 V)

**Connector**
- Stereo Phone Jack (TRS)

### Digital Input & Output Characteristics

**Line Input & Output**
- AES/EBU 2TR OUT DIGITAL *1

**Digital I/O**
- 864-ch (AES/EBU)

**Line In & Out**
- 48 kHz

**Connector**
- DIN Connector 5P

### Control I/O Characteristics

**Input**
- MDI

**Output**
- WORD CLOCK

**Connector**
- DIN Connector SP

**Connector**
- 9-pin D-sub Connector SP (IBM)

**Connector**
- J-Link Connector SP (IBM)

**Connector**
- XLR-3-31 type

**Connector**
- 24-pin D-sub Connector

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*Note: All specifications are subject to change without notice. All trademarks and registered trademarks are property of their respective owners.*

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YAMAHA CORPORATION  P.O. BOX1, Hamamatsu Japan  www.yamahaproaudio.com

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Printed in Japan
The M7CL digital mixing console featuring Yamaha’s groundbreaking Centralogic™ interface has become a standard for intuitive operation, flexible control, and superior sound quality in the highly competitive field of live sound reinforcement. Now here’s some great news for current and future M7CL users: firmware version 3.0 provides significant enhancements and is a free upgrade for current users, and the family has grown to include the M7CL-48ES with built-in plug-and-play networking to as many as three Yamaha SB168-ES stage boxes. So now you have a choice between the M7CL-32 and M7CL-48 with direct-to-console analog connectivity, or the M7CL-48ES with primary analog input and output via remote EtherSound connected stage box units that can be located as required for optimum convenience and minimum analog signal degradation.

The Yamaha M7CL series: still the most user-friendly digital mixing consoles available, now with improved functionality and a model that makes remote I/O easier than ever.
The Extended M7CL Family – Ready to Meet New Challenges

**M7CL-48ES**
Specifically designed for use with SB168-ES EtherSound stage boxes, the M7CL-48ES replaces the 48 internal head amps of the M7CL-48 with two EtherSound ports that provide plug-and-play connection to up to three SB168-ES units.

- Two EtherSound ports for easy auto-configured connection to as many as three SB168-ES stage boxes in daisy-chained or ring configuration. A third port is provided for permanent connection to a computer.
- 48 mono and stereo inputs (a total of 56 mixing channels), 16 mix busses, LCR bus, 8 matrix channels, and 8 DCAs.
- 8 assignable omni inputs and outputs, and 3 Mini-YGDAI card slots.
- Virtual effect and EQ rack: up to 4 simultaneous multi-effect processors; up to 8 simultaneous 31-band graphic EQs.
- Centarlogic™ interface: central, logical, and intuitive.
- Dual power modes: use the built in power supply, or add an external PW800W power supply unit (optional) for fail-safe dual-supply operation.

**M7CL-48**
48 high-performance head amps onboard allow analog microphone and line signals to be directly hooked up to the console. Ideal where analog infrastructure is already installed.

- 48 mono microphone/line inputs, 4 stereo inputs, and 3 Mini-YGDAI card slots (a total of 56 mixing channels).
- 16 mix busses, LCR bus, 8 matrix channels, and 8 DCAs assignable to 16 omni outputs.
- Virtual effect and EQ rack: up to 4 simultaneous multi-effect processors; up to 8 simultaneous 31-band graphic EQs.
- Centralogic™ interface: central, logical, and intuitive.
- Dual power modes: use the built in power supply, or add an external PW800W power supply unit (optional) for fail-safe dual-supply operation.

**M7CL-32**
All the features and performance of the M7CL-48, but with fewer input channels for optimum integration and economy in applications that don’t require more than 32 inputs.

- 32 mono microphone/line inputs, 4 stereo inputs, and 3 Mini-YGDAI card slots (a total of 40 mixing channels).
- 16 mix busses, LCR bus, 8 matrix channels, and 8 DCAs assignable to 16 omni outputs.
- Virtual effect and EQ rack: up to 4 simultaneous multi-effect processors; up to 8 simultaneous 31-band graphic EQs.
- Centralogic™ interface: central, logical, and intuitive.
- Dual power modes: use the built in power supply, or add an external PW800W power supply unit (optional) for fail-safe dual-supply operation.

*Photo shows console with optional MBM7CL meter bridge installed.*
Overview

The Overview display – the console’s default display – gives you a standard view of the 8 channels selected via the Centralogic™ navigation keys. These keys, arranged in an exact replica of the 8-channel channel groups on the console, let you instantly bring any group of 8 channels to the central controls with a single button-press. You can then touch any row of controls on the display screen to focus on them – pan, or bus send, for example – and adjust via the corresponding multi-function encoders immediately below the display. You should be able to perform a basic mix on the M7CL without even having to open the manual.

Selected Channel

To adjust pan for a channel, for example, simply press the channel’s [SEL] key and rotate the console’s physical PAN control. The same applies to preamp gain, dynamics, high-pass filter, EQ, and bus send control. Adjustments are clearly shown on the display as you make them, as is the status of all mix parameters for the currently selected channel. You can zoom in on any of the on-screen parameters for in-depth control by simply touching the parameter on the screen. When you’re focused on a parameter the multi-function encoders below the display screen adjust the corresponding parameters in the display.

Virtual Effect and GEQ Rack

MTCL consoles give you an outstanding range of high-resolution effects and graphic equalizers onboard.

Just touch the RACK button on the M7CL display, and the virtual effect and EQ rack pops right up for instant, easy access. A few quick touches on the screen and you can easily patch effects or graphic EQ into any channel and output. Another touch or two and you can get right inside the effects for detailed editing. The M7CL lets you see up to 8 signal processors simultaneously – normally that’s up to 4 effects and 4 graphic EQ units. But since the effect units can also function as graphic EQs, you can use more EQ units if you don’t need all 4 effects. Built-in effects range from reverb and echo to modulation and distortion, plus Yamaha’s superlative REV-X package for some of the most natural-sounding ambience effects available anywhere. The standard 31-band graphic EQ modules are directly adjustable via physical controllers, and Pan15GEQ modules allow GEQ to be applied to up to 16 channels at once! More effect and GEQ details are provided on the following page.

VCM Effects Deliver Analog Smoothness and Warmth

Version 3.0 brings a selection of previously optional VCM effects to the MTCL platform, providing truly musical performance and subtleties that simple digital simulations cannot even approach.

These compressor and EQ effects, now standard features of all Version 3 MTCL consoles, faithfully capture the unique sound and saturation of analog circuitry with VCM technology that actually models individual analog circuit components, right down to the last resistor and capacitor. All VCM effects are sonically fine-tuned by leading engineers, and feature carefully selected parameters that can be precisely controlled via a simple, refined interface.

Compressor 278
Recreate the fast response, frequency characteristics, and tube-amp saturation of the most in-demand analog compressors for studio use.

Compressor 260
Features faithful modeling of the solid-state VCA and RMS detection circuitry of the late 70’s for live sound reinforcement applications.

Equalizer 601
Delivers the unique characteristics of 70’s analog EQ circuitry, featuring comprehensive graphical editing capability.

OpenDeck
VCM technology recreates classic tape compression and saturation with extraordinary realism.

Centralogic™
Total Access for Absolute Control

Yamaha’s touch-panel based Centralogic™ interface simplifies digital operation to the point where it is actually as intuitive as analog... if not easier. All mix controls other than the individual motor faders provided for each channel can be accessed via just two displays: Overview or Selected Channel.
Sophisticated Sonic Control
The M7CL’s extraordinarily intuitive control interface receives a lot of attention, but the sound of these fine consoles is outstanding as well. After all, it is really all about the sound.

Versatile Channel Module Functions

HA Gain
Adjusts gain of the console’s class-leading input-channel head amplifiers over a 72 dB range. HA gain is recallable like almost all of the console’s other settings. Touch the HA section of the display to access the +/EV phantom-power and phase settings.

DYNAMICS 1 and DYNAMICS 2
DYNAMICS 1 adjusts gate threshold level for input channels, or compressor threshold level for mix, matrix, or stereo/mono channels. DYNAMICS 2 adjusts compressor threshold level for input channels. In either case the actual parameter controlled depends on the dynamics processor selected from the well-stocked dynamics library provided – gates, compressors, expanders, and even de-essers for advanced vocal processing. Although initially set up for gate + compressor processing, you can also use dual compressors.

EQ
This very versatile 4-band parametric EQ section affords extraordinary equalisation control and quality for all inputs and buses. Switchable Type I and Type II EQ algorithms let you choose the type of EQ response that best suits the application.

Relative Level Channel Link
There will undoubtedly be times when you want to link a pair of faders to handle stereo signals, or perhaps even link more channels for simultaneous operation. The M7CL lets you link as many channels together as you like, and even deselect parameters that you don’t want to be linked. You can even create links with offsets in level.

MIX / MATRIX
Send controls for the 16-mix buses and 8 matrices that can be used as auxiliary, monitor, effect send, or group controls depending on whether the AUX SEND or MATRIX pre-attenuator or post-fader/mute mode is selected. There’s also an INPUT TO MATRIX mode that lets you send the input channel signals directly to the matrix.

High Resolution Effects
Yamaha digital effects are highly regarded in the professional sound field for a very good reason: they are simply the best. Whether you need to add a touch of reverb or manipulate a sound for other-worldly effect, the M7CL offers any of the 31 bands on the graphic equalizer modules can be directly controlled via the Centralogic™ faders. Other convenient control features include the ability to instantly reset any band to nominal simply by pressing the appropriate [ON] key.

Direct EQ Control
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Efficient Interface and Control Functions

Centralogic™ Navigation & Physical Controls
The 8 Centralogic™ faders are of the same type as the primary channel faders. Simply press the appropriate Centralogic™ navigation key to bring control of any group of 8 input channel faders to the Centralogic™ controls and Overview display. The multifunction encoders at the top of each Centralogic™ control strip are used to control the parameters you “focalize” on by touching the appropriate area of the Overview display.

User Defined Keys
The 12 User Defined Keys can be assigned to perform a range of handy functions. You could assign one for tap-tempo input of delay times, others to jump to specific display screens, to control specified mute groups, or to activate talkback, for example. An innovative User Defined Key function is “Set by SOL”, with which the channel [SOL] keys perform a range of alternate functions if pressed while the assigned User Defined Key is held: reset to default for that channel, turn phantom power on or off, set the channel fader to nominal and more.

MIDI / OSC
Recall can be linked via a simple MIDI command.

Easy Channel Identification
Channel names and icons appear at the top and bottom of every channel in the Overview display, and by simply touching one you can select one of the preset names provided or enter your own via the convenient onscreen keyboard. There’s even an excellent selection of some you can choose from for easy visual identification of the source type.

DCA and Mute Groups
The levels of channels assigned to a DCA group are controlled from one of the console’s DCA faders in the Centralogic™ control area. Any number of channel faders can be assigned to any of the console’s 8 DCA faders. Multi-grouping is another feature that can be a great advantage in live sound applications. Any number of channels can be muted or unmuted via assigned User Defined Keys. Up to 8 mute groups can be specified.

Straightforward Connections & Patching
The M7CL-32 and M7CL-48 rear panels have individual balanced inputs for every channel of each of the console’s input channels. All outputs are patched to the 16 OMNI OUT connections. All you have to do is plug in your sources and output system and you’re ready to mix. If you need a different routing arrangement re-routing is easily accomplished via the M7CL’s straightforward digital patching interface.

Features for Optimum Monitoring

SENDs ON FADER
When working on a monitor mix, touch the Sends on Fader button on the display to instantly assign the selected mix bus sends to the faders so you can visually confirm send levels and adjust them with full-length fader precision. Sends on Fader works for the matrix sends as well.

Version 3 adds new Sends on Fader functionality: press a Mix Send knob in the Sends on Fader mode to select the corresponding mix bus for speedy access to mix send levels. If you currently use User Defined Keys to jump to Sends on Faders, this new feature will free up precious User Defined Keys for even faster operation.

MIDI IN
A MIDI IN connector is available for assignment of any function.

Monitor/Cue level control via Mono/Stereo Faders
You have a choice of controlling Monitor/Cue level using either the Mono or Stereo fader and the Monitor Level encoder. For many engineers the fader provides better visual level indication, for more precise, comfortable adjustment.

Bus Setup
Each of the M7CL’s mix buses can be quickly assigned for mono or stereo operation. The EQ send is also available, and this can be an advantage when using the mix buses to feed an in-ear monitor system, for example.

Streamlined Operation
A streamlined, efficient workflow is essential to delivering the best sound under any conditions. M7CL consoles give you the tools you need to make the most of any situation.

Outstanding Effects and Effect Control

Efficient Interface and Control Functions

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Digital Advantages

Digital technology is impressive, but is only meaningful if applied with focus and care. Yamaha delivers maximum digital value with features that really make a difference.

Digital technology is impressive, but is only meaningful if applied with focus and care.

Access and Data Management

Store and Recall Up to 300 Scenes

“Scene” is a complete snapshot of all the console’s settings, and the M7CL lets you store up to 300 complete scenes for instant recall whenever they’re needed. This makes it a snap to reset the entire console for band changes, for example. You could also store basic setups for different types of shows, then recall and tweak the settings as required.

Global Paste

Global Paste allows simultaneous editing of parameters on multiple scenes, eliminating the need to recall or edit individual scenes. If you need to make last minute changes to 10A or EQ settings in all scenes because a fill-in musician is bringing different instruments to a particular show, for example. Global Paste will have the job done in no time.

Recall Focus and Recall Safe Functions

Recall focus lets you specify the parameters to be recalled with each scene, while recall safe allows you to specify parameters that are not to be recalled with a scene. There are actually two kinds of recall safe; global recall safe specifies parameters that will not be changed when any scene is recalled, and scene-specific safe parameters that will not be changed when a specified scene is recalled. You could use global recall safe to prevent any scene recall operation from changing a critical overall EQ setting, or use safe parameter settings to prevent the vocal channel fader setting from being changed by recall of a specific scene.

Channel Library

The Channel Library is a memory bank that stores channel parameter settings such as dynamics and EQ. Store your most frequently used parameter settings for fast, efficient setup.

USB Memory for Convenient Data Management and Portability

Standard USB memory sticks can be plugged into the M7CL USB port for convenient storage and recall of a range of data: scenes, patches, user libraries, channel names, preferences — essentially all system data. In addition to providing a secure backup, this makes it easy to transfer data between the console and the M7CL Editor application running on your personal computer, or directly between M7CL consoles.

USB Key Access

User access can be controlled via USB memory keys with passwords. The administrator can assign specific functions to each unique key, so the user only has to log onto the console with the USB key containing the password to begin operation at the assigned level.

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Auto-configuration for Plug-and-Play Convenience

To set up a basic daisy-chain system all you need to do is connect the M7CL-48ES to the SB168-ES stage boxes via appropriate cables and turn on the power. The ES-Monitor software is not required. Everything is configured automatically, and you don’t even have to look or worry about the order of the ID numbers of the SB168-ES units used. Switch a few settings and setting up a ring network is just as easy.

Onboard EtherSound and 3rd Port

The M7CL-48ES adds EtherSound stage box connectivity for state-of-the-art system layout and signal routing capability, while retaining superior M7CL efficiency, functionality, and sound.

Onboard EtherSound and 3rd Port

Where the original M7CL-48 has 48 analog inputs, the M7CL-48ES has a total of three EtherSound ports; two for connection to as many as three Yamaha SB168-ES EtherSound stage boxes in either daisy-chain or ring configurations. The 3rd port allows permanent connection to a computer while the stage boxes are connected in ring mode.

Flexible System Expansion

Three Slots for Flexible System Expansion

The M7CL-48ES retains eight OMNI inputs and eight OMNI outputs that can be used for direct analog connection. This provides an ideal way to insert outboard processors and other equipment.

Data Compatibility with All M7CL Consoles

The M7CL-48ES is compatible with backup data created by the M7CL-32 and M7CL-48 consoles; no time and effort you’ve spent creating finely-tuned setups for the M7CL-32 or M7CL-48 won’t be wasted.

Analog Insert via OMNI I/O

Although the 48 analog inputs are replaced by EtherSound ports, the M7CL-48ES retains eight OMNI inputs and eight OMNI outputs that can be used for direct analog connection. This provides an ideal way to insert outboard processors and other equipment.

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M7CL-48ES Features

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USB Memory for Convenient Data Management and Portability

Standard USB memory sticks can be plugged into the M7CL USB port for convenient storage and recall of a range of data: scenes, patches, user libraries, channel names, preferences — essentially all system data. In addition to providing a secure backup, this makes it easy to transfer data between the console and the M7CL Editor application running on your personal computer, or directly between M7CL consoles.

USB Key Access

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Parallel Paste

Parallel Paste will have the job done in no time.

Global Paste

Global Paste allows simultaneous editing of parameters on multiple scenes, eliminating the need to recall or edit individual scenes. If you need to make last minute changes to 10A or EQ settings in all scenes because a fill-in musician is bringing different instruments to a particular show, for example. Global Paste will have the job done in no time.

Recall Focus and Recall Safe Functions

Recall focus lets you specify the parameters to be recalled with each scene, while recall safe allows you to specify parameters that are not to be recalled with a scene. There are actually two kinds of recall safe; global recall safe specifies parameters that will not be changed when any scene is recalled, and scene-specific safe parameters that will not be changed when a specified scene is recalled. You could use global recall safe to prevent any scene recall operation from changing a critical overall EQ setting, or use safe parameter settings to prevent the vocal channel fader setting from being changed by recall of a specific scene.

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USB Memory for Convenient Data Management and Portability

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USB Key Access

User access can be controlled via USB memory keys with passwords. The administrator can assign specific functions to each unique key, so the user only has to log onto the console with the USB key containing the password to begin operation at the assigned level.
M7CL V3 Editor

The M7CL V3 Editor application provides off-line programming access to all console parameters. Setups can be downloaded from the computer to the console either via direct Ethernet connection or a USB memory stick.

Overview

The Overview display offers a convenient view of the mix parameters for 16 channels or mix buses at a time. In Version 3 Sends on Fader functionality is also available via the editor’s Overview display.

Selected Channel

Similar to the Selected Channel display on the console, this display provides comprehensive access to all parameters for the selected channel. Multiple “Additional Views” for other channels can be opened simultaneously.

Group/Link

Channel linking can quickly and efficiently accomplished on the console itself, but if you need to create channel link or group setups offline, the M7CL V3 Editor makes the task easy.

Library

The M7CL V3 Editor allows convenient data library management, too.

Scene

You also have full access to scene functions with the M7CL V3 Editor, including the focus and recall safe functions that allow exceptional control over the parameters that will be included and excluded when a scene is recalled.

Mini-YGDAI Expansion Cards

M7CL consoles have 3 expansion slots on the rear panel that accept a wide range of optional Yamaha Mini-YGDAI cards that can be used to add analog and/or digital I/O or networking capability in a range of formats. You could add Mini-YGDAI cards to connect to an MTR for direct multitrack recording, or to connect an Aviom personal-monitoring system, for example. You can even use Mini-YGDAI cards to bus cascade the M7CL with other consoles for significantly expanded input/output capacity. The expansion cards described here are just part of a comprehensive, growing lineup. For complete, up-to-date information on the current Mini-YGDAI card lineup visit Yamaha’s pro audio website at: http://www.yamaproaudio.com/

Options

Optional expansion cards and other add-ons allow M7CL consoles to be customized for seamless integration with just about any system or application.

PSL360 Power Supply Link Cable

PW800W Power Supply Unit

For many applications you can simply plug the M7CL directly into a convenient AC outlet and use the built-in power supply. The external PW800W Power Supply Unit can be added when maximum regulation and reliability are required (the internal power supply and the PW800W provide redundant failsafe operation).

MBM7CL Meter Bridge

Although the M7CL has comprehensive metering facilities built in, the optional MBM7CL Meter Bridge fits right above the console’s display and provides high-visibility level monitoring while allowing the display to be used for other operations.

PWL360 Power Supply Link Cable

The PWL360 external power supply unit requires PSL360 power supply. The external PWL360 Power Supply Unit can be added when maximum regulation and reliability are required.

LA11 Gooseneck Lamp

The LA11 brightness parameter can be controlled from optional MBM7CL Meter Bridge fits right above the console’s display and memorized to the A/B banks.

PSL360 Power Supply Link Cable

PW800W Power Supply Unit

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16/o-Y1 by Aviom

Connect an Aviom personal monitoring system, for example. You can even use Mini-YGDAI cards to bus cascade the M7CL with other consoles for significantly expanded input/output capacity.

MY16-AE by Yamaha

Each MY16-AE card adds 16 channels of AES/EBU format digital input and output, allowing direct connection to a range of professional digital audio devices.

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Dante-MY16-AUD by Audinate

The Dante-MY16-AUD card instantly Dante-enables your M7CL. Each Dante-MY16-AUD card provides 16 bidirectional audio channels (16 channels at 48 kHz) and full Dante network audio redundancy over Gigabit Ethernet.

WSG-Y16 by Waves

A true breakthrough for live sound, the WSG-Y16 lets FOH and monitor engineers run multiple simultaneous instances of the same Native Waves plug-ins used in recording studios and mixing rooms the world over.

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Analog Wiring

Analog Stage Box

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Options

Optional expansion cards and other add-ons allow M7CL consoles to be customized for seamless integration with just about any system or application.

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