

M7CL

Digital Mixing Console



M7CL-32

M7CL-32 Rear Panel



**Peak Meter Bridge MBM7CL is option.*



M7CL-48

M7CL-48 Rear Panel



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Centralogic interface delivers digital live sound mixing with the comfort and efficiency of analog.

- Yamaha Centralogic™ interface with touch-screen allows total control from an easily accessible central area.
- The M7CL-48 provides a total of 56 inputs – 48 mono mic/line inputs and 4 stereo line inputs. The M7CL-32 has a total of 40 inputs – 32 mono mic/line inputs and 4 stereo line inputs.
- 27 buses in the form of 16 mix buses, an LCR bus, and eight matrixes that can be used with inputs as well as buses.
- Straightforward connection via analog input connectors for every input channel.
- 16 analog “omni” outputs as well as a 2TR digital output.
- Three Mini-YGDAI I/O card slots can accommodate up to 16 channels of digital or analog I/O each, for up to an addition 48 I/O channels.
- Eight DCA groups and eight mute groups.
- Virtual 8-unit rack for effects and graphic EQ.
- Advanced access management functions provide multi-level control over user access.
- Recallable right down to head amp gain, plus safe and focus functions.
- M7CL Editor software application supplied.

OPTIONS

MBM7CL

Meter Bridge



Although the M7CL has comprehensive metering facilities built in (simply touch the meter section on the display for full-screen total-system visual monitoring), 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.

LA1L

Gooseneck Lamp

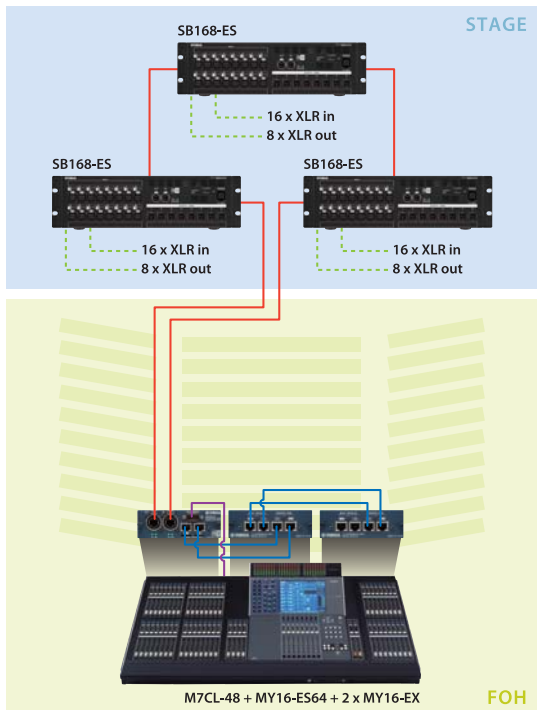


PSL360

Power Supply Link Cable



SYSTEM EXAMPLE



Medium Scale Live Sound System with M7CL-48

This example depicts a live sound system built around an M7CL-48 console. This system offers 48 inputs and 24 outputs on stage.

This system uses CAT5e cables and ES-100 ring topology in a redundant configuration to connect the stage boxes and the M7CL-48, allowing simple, hassle-free setup.

- CAT5e cable (EtherSound™)
- CAT5e cable
- ... Analog
- HA Remote

PW800W

Power Supply Unit



Rear Panel

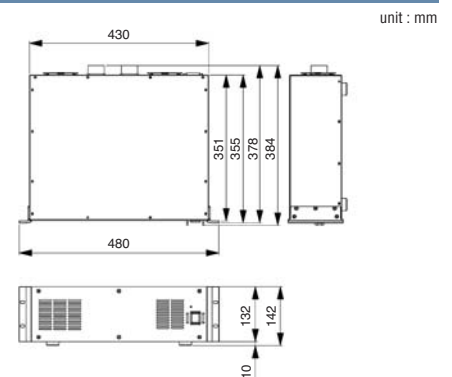


For many applications you can simply plug the M7CL directly into a convenient AC outlet and use the built-in power supply. But you should consider the external PW800W Power Supply Unit in situations where maximum regulation and reliability are required. When a PW800W unit is added the internal power supply and the PW800W provide redundant failsafe operation.

GENERAL SPECIFICATIONS (PW800W)

Power Consumption	1000W	
Dimensions (W x H x D)	480 x 142 x 384mm (18.7" x 5.5" x 14.98")	
Weight	10kg (22lbs)	
Included Accessories	Power cord, Cord clamp, Owner's Manual	
Temperature Range	Operating	10°C–35°C
	Storage	–20°C–60°C

DIMENSIONS (PW800W)



GENERAL SPECIFICATIONS

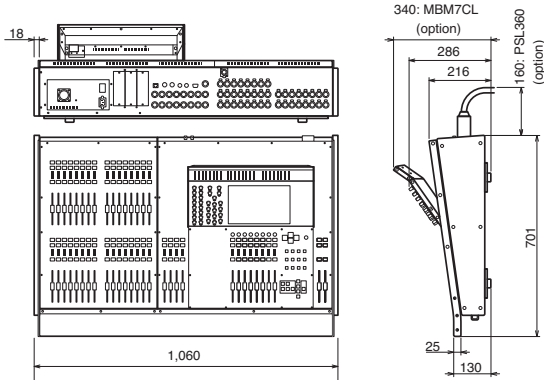
Internal processing	32bit (Accumulator=58bit)
Number of scene memories	300
Sampling frequency rate	Internal: 44.1kHz,48kHz External: 44.1kHz (-10%) to 48kHz (+6%)
Signal Delay	Less than 2.5ms (INPUT to OMNI OUT @48kHz)
Total harmonic distortion *1 CH INPUT to OMNI OUT Input Gain=Min.	Less than 0.05% 20Hz to 20kHz @+4dBu into 600Ω
Frequency response CH INPUT to OMNI OUT	20Hz - 20kHz, 0, +0.5,-1.5dB @+4dBu into 600Ω
Dynamic range (maximum level to noise level)	110dB, DA Converter (OMNI OUT) 108dB, AD+DA (OMNI OUT)
Hum & noise level *2	-128dB, Equivalent input noise (20-20kHz, Rs=150Ω, Input Gain=Max) -84dB, Residual noise
Crosstalk (@1kHz)	-80dB Adjacent input channels (INPUT1-48, ST IN 1-4 [L, R], (GAIN:min) to OMNI OUT 1-16)
Power requirements	110V-240V, 50/60Hz
Power consumption	M7CL-48: 300W, M7CL-32: 250W
Dimensions (W x H x D)	M7CL-48: 1274 x 286 x 701mm (50.2" x 11.2" x 27.5") M7CL-32: 1060 x 286 x 701mm (41.7" x 11.2" x 27.5")
Weight	M7CL-48: 50kg (110lbs) M7CL-32: 42kg (92lbs)

*1. Total harmonic distortion is measured with a 6dB/oct filter @80Hz

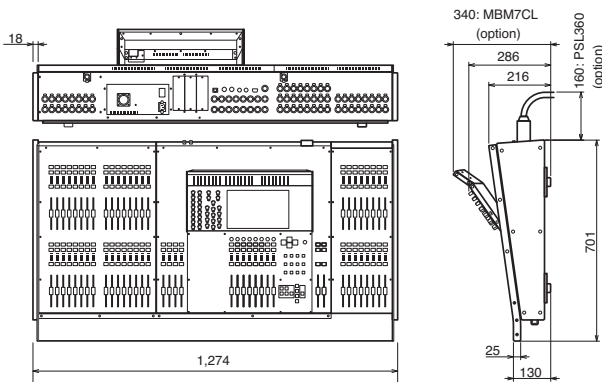
*2. Hum & noise are measured with 6dB/oct filter @12.7kHz; equivalent to a 20kHz filter with infinite dB/oct attenuation.

DIMENSIONS

unit : mm



M7CL-32



M7CL-48

ANALOG INPUT SPECIFICATIONS

Input terminal	GAIN	Actual load impedance	For use with nominal	Input level			Connector
				Sensitivity	Nominal	Max. before clip	
INPUT 1-n* ST IN 1-4[L,R]	-62dB	3kΩ	50-600Ω Mics & 600Ω Lines	-82dBu	-62dBu	-42dBu	XLR3-31 type *
	+10dB			-10dBu	+10dBu	+30dBu	
TALKBACK	-60dB	3kΩ	50-600Ω Mics & 600Ω Lines	-70dBu	-60dBu	-40dBu	XLR3-31 type *
	-16dB			-26dBu	-16dBu	+4dBu	

*M7CL-48: n=48, M7CL-32: n=32

ANALOG OUTPUT SPECIFICATIONS

Output terminals	Actual source impedance	For use with nominal	GAIN SW	Output terminals		Connectors
				Nominal	Max. before Clip	
OMNI OUT 1-16	75Ω	600Ω Lines	+24dB*	+4dBu	+24dBu	XLR-3-32 type *
			+18dB	-2dBu	+18dBu	
PHONES	15Ω	8Ω Phones	—	75mW	150mW	ST Phone jack **
		40Ω Phones	—	65mW	150mW	

*Default

0dB=0.775Vrms; 0dBV=1.00Vrms

DIGITAL OUTPUT SPECIFICATIONS

Terminal	Format	Data length	Level	Connector
2TR OUT DIGITAL	AES3	24bit	RS422	XLR3-32 type (Balanced)

CONTROL I/O SPECIFICATIONS

Terminal	Format	Level	Connector
ETHERNET	ETHERNET	—	RJ45
MIDI	IN	MIDI	DIN Connector 5P
	OUT	MIDI	DIN Connector 5P
WORD CLOCK	IN	—	TTL/75Ω
	OUT	—	TTL/75Ω
REMOTE	—	RS422	D-sub 9pin(male)
LAMP 1, 2 *	—	0V-12V	XLR-4-31 type *1
USB HOST	USB1.1	—	A type USB Connector

*1. 4pin=HOT,3pin=COLD,Lamp rating 5 W,Voltage control by software

*M7CL-48 only

