

# M7CL

## Digital Mixing Console



### M7CL-32

M7CL-32 Rear Panel



*\*Peak Meter Bridge MBM7CL is option.*



### M7CL-48

M7CL-48 Rear Panel



*\*Peak Meter Bridge MBM7CL is option.*



## GENERAL SPECIFICATIONS

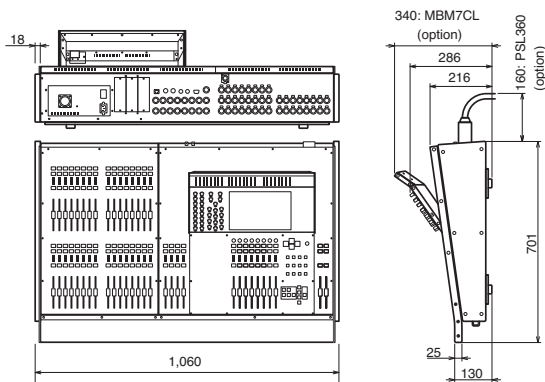
<b>Internal processing</b>	32bit (Accumulator=58bit)
<b>Number of scene memories</b>	300
<b>Sampling frequency rate</b>	Internal: 44.1kHz,48kHz External: 44.1kHz (-10%) to 48kHz (+6%)
<b>Signal Delay</b>	Less than 2.5ms (INPUT to OMNI OUT @48kHz)
<b>Total harmonic distortion *1</b> CH INPUT to OMNI OUT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

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

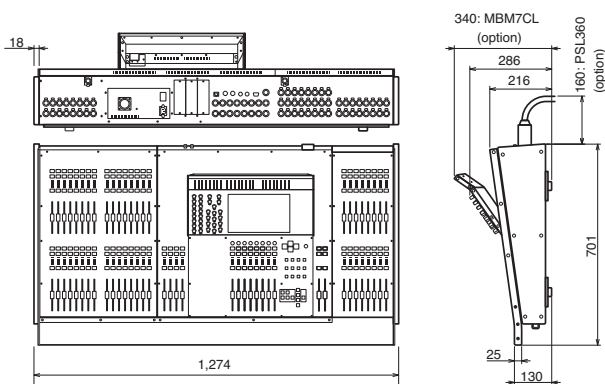
\*2. Hum & noise are measured with 6dB/oct filter @12.7kHz; equivalent to a 20kHz filter with infinite dB/oct attenuation.

## 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

