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**M7CL Digital Mixing Console**

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**M7CL Digital Mixing Console**  
for a mid-range live  
application. Available for 32  
channels and 48 channels



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**General Specifications**

Sampling Frequency	Internal: 44.1kHz, 48kHz External: 44.1kHz (-10%) to 48kHz (+6%0)
Signal Delay	Less than 2.5ms INPUT to Stereo A, B (@ Sampling frequency = 48kHz)
Fader	100mm motorized x 62 (46)
Touch Screen LCD	800 x 600 dot TFT LCD
Total Harmonic Distortion*	INPUT to STEREO A

Input Gain=Minimum, PAD=ON Master fader at nominal level and one input fader at nominal level	Less than 0.05% 20Hz to 20kHz @+4dBu into 600Ω
Frequency Response Input Gain=Max, PAD=Off Master fader at nominal level and one input fader at nominal level	INPUT to STEREO A 0.5, -1.5dB 20Hz to 20kHz @+4dBu into 600Ω
Dynamic Range Input Gain=Minimum, PAD=ON Master fader at nominal level and one input fader at nominal level	110dB typ. DA Converter (STEREO A) 108dB typ. AD+DA (to STEREO A)
Hum & Noise** Input Gain=Max, PAD=Off Master fader at nominal level and one input fader at nominal level	-128dBu typ. Equivalent Input Noise -86dBu residual output noise (STEREO A) STEREO Master off
Maximum Voltage Gain	86dB INPUT1-48 to Each Output
Crosstalk (@1kHz)	-80dB adjacent input channels (INPUT1-48, ST IN 1-4[L, R], OMNI OUT 1-16)
Phantom Power	48V
Dimensions (W x H x D mm)	M7CL-32: 1,060 x 286 x 701 (Included MBM7CL: 340) M7CL-48: 1,274 x 286 x 701 (Included MBM7CL: 340)
Net Weight	M7CL-32: 42kg M7CL-48: 50kg
Power Requirements	AC100-240V 50Hz/60Hz
Power Consumption	M7CL-32: 250W M7CL-48: 300W
Operation free-air Temperature Range	+10°C to +35°C
Storage Temperature Range	-20°C to +60°C
* Total Harmonic Distortion is measured with a 18dB/octave filter @80kHz	
** Hum & Noise is measured with 6dB/octave filter @ 12.7kHz; Equivalent to a 20kHz filter with infinite dB/octave attenuation.	

### Analog Input Characteristics

Input Terminals	GAIN	Actual Load Impedance	For Use With Nominal	Input Level			Connector
				Sensitivity *1	Nominal	Max. before Clip	
INPUT 1-32 <M7CL-32>	-62dB	3kΩ	50-600Ω Mics & 600Ω Lines	-82dBu (61.6μV)	-62dBu (0.616mV)	-42dBu (6.16mV)	XLR-3-31 type (Balanced) *2
INPUT 1-48 <M7CL-48>	+10dB			-10dBu (245mV)	+10dBu (2.45V)	+30dBu (24.5V)	
ST IN 1-4 [L, R]	-62dB	3kΩ	50-600Ω Mics & 600Ω Lines	-82DbU (61.6μV)	-62dBu (0.616mV)	-42dBu (6.16mV)	XLR-3-31 type (Balanced) *2
	+10dB			-10dBu (245mV)	+10dBu (2.45V)	+30dBu (24.5V)	
TALKBACK	-60dB	3kΩ	50-600Ω Mics &	-70dBu (0.245mV)	-60dBu (0.775mV)	-40dBu (7.75mV)	XLR-3-31 type

-16dB	600Ω Lines	-26dBu (38.8mV)	-16dBu (0.123V)	+4dBu (1.23V)	(Balanced) *2
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\*1. Sensitivity is the lowest level that will produce an output of +4dBu (1.23V) or the nominal output level when the unit is set to maximum gain. (All faders and level controls are maximum position.)

\*2. XLR-3-31 type connectors are balanced. (1 = GND, 2 = HOT, 3 = COLD)

\*3. In these specifications, 0dBu = 0.775 Vrms.

\*4. All input AD converters are 24bit linear, 128times oversampling.

\*5. +48V DC (phantom power) is supplied to INPUT (1-4R), ST IN 1L-4R, TALKBACK XLR type connectors via each individual software controlled switches.

### Analog Output Characteristics

Output Terminals	Actual Source Imp.	For Use With Nominal	GAIN SW *5	Output Level		Connector
				Nominal	Max. Before Clip	
OMNI OUT 1-16	75Ω	600Ω Lines	+24dB (default)	+4dBu (1.23 V)	+24dBu (12.28 V)	XLR-3-32 Type (Balanced) *1
			+18dB	-2dBu (616mV)	+18dBu (6.16V)	
PHONES	15Ω	8Ω Phones	—	75mW *6	150mW	Stereo Phone Jack (TRS) (Unbalanced) *2
		40Ω Phones	—	65mW *6	150mW	

\*1. XLR-3-32 type connectors are balanced. (1 = GND, 2 = HOT, 3 = COLD)

\*2. PHONES stereo phone jack is unbalanced. (Tip = LEFT, ring = RIGHT, Sleeve = GND)

\*3. In these specifications, 0dBu = 0.775 V rms.

\*4. All output DA converters are 24bit, 128times (@48kHz) oversampling.

\*5. There are switches inside the body to preset the maximum output level.

\*6. The position of the level control is 10dB lowered from Max.

### Digital Output Characteristics

Terminal	Format	Data Length	Level	Connector
2TR OUT DIGITAL	AES/EBU *1 Professional Use	24bit *2	RS422	XLR-3-32 Type (Balanced) *3

\*1. Channel status of 2TR OUT DIGITAL

\*2. Dither: word length 16/20/24 bit

\*3. XLR-3-32 type connectors are balanced. (1 = GND, 2 = HOT, 3 = COLD)

### Control Input/Output Characteristics

Terminal	Format	Level	Connector
MIDI	IN	MIDI	DIN Connector 5P
	OUT	MIDI	DIN Connector 5P
WORD CLOCK	IN	—	TTL/75Ω Terminated
	OUT	—	TTL/75Ω
REMOTE	—	RS422	D Sub Connector 9P (Male)
Ethernet	Ethernet	100Base-T	RJ-45
LAMP 1, [2]	—	0V-12V	XLR-4-31 type *1
USB	USB 1.1 Host *5	USB* 6	A type USB Connector (Female)

DC POWER INPUT	-	-	JL05 Connector
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\*1. 4pin = HOT, 3pin = COLD, lamp rated powered 5W Voltage can be adjust by a software.  
All specifications are subject to change without notice.

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