

DIGITAL STEREO MIXER

M-864D (CE/CE-AU/CE-GB)

The M-864D is a 4U rack mountable Digital stereo mixer having 22 input channels including 8 monaural input channels and 7 stereo input channels, 6 output channels including 4 monaural output channels and 1 stereo recording output channel, and 4 bus channels. It is equipped with digital signal processing functions such as Automatic resonance control function (ARC(*1)), Feedback suppressor function (FBS), Automatic stereo input mute function (AUTO MUTE or Ducker), and Equalizer. Advanced acoustic compensation can be automatically performed without using an acoustic measuring instrument. Furnished with various function setting buttons and 14 analog volume faders, the M-864D can be operated without need for use of a PC. However, it can also be operated by connecting the PC or optional Remote control panel. It can be mounted in an EIA component rack (4U size).

(*1) Automatic Resonance Control function automatically creates the filter curve to improve sound clarity by measuring the acoustic characteristics inherent in architectural space.

■SPECIFICATIONS (*2) 0 dB = 0.775 V

Version	CE/CE-GB	CE-AU	
Power Source	220-240 V AC, 50/60 Hz	220-240 V AC, 50 Hz	
Power Consumption	30 W	ZZO Z 10 V /10, 30 11Z	
Frequency Response	20 Hz - 20 kHz, ±1 dB		
Sampling Frequency			
Dynamic Range	48 kHz 100 dB or more		
Distortion			
Crosstalk	0.03 % or less, 1 kHz, +4 dB(*2) input/output, 20 Hz - 20 kHz BPF		
	-80 dB or less, 1 kHz Monaural input, 8 channels, removable terminal block (3P)		
Input	Phantom power (+24 V DC, 10 mA, ON/OFF switchable for each channel) Gain setting (settable for each channel) :PAD ON Gain min., +4 dB(*2) (max. +24 dB(*2)), 10 kΩ, electronically—balanced Gain max., -14 dB(*2) (max. +6 dB(*2)), 10 kΩ, electronically—balanced :PAD OFF Gain min., -10 dB(*2) (max. +10 dB(*2)), 7 kΩ, electronically—balanced Gain max., -56 dB(*2) (max36 dB(*2)), 7 kΩ, electronically—balanced Stereo Input (L, R), 7 channels (1-A, 1-B, 1-C, 2-A, 2-B, 2-C, front—mounted input) RCA jack (stereo mini jack provided on the front panel) : -10 dB(*2) (max. +10 dB(*2)), 10 kΩ Trim gain for each individual channel: -∞ to 0 dB (except front—mounted input) * 1-A (L), 1-B (L), and 1-C (L) are mixed after passing through each trim gain circuit (the same applies to R channel) * 2-A (L), 2-B (L), and 2-C (L) are mixed with front—mounted input after passing		
	through each trim gain circuit (the same applies to R channel)		
Output	Output, 4 channels, +4 dB(*2) (max. +24 dB(*2)), applicable load 600 Ω or more, electronically—balanced, removable terminal block (3P) REC OUT (L, R): -10 dB(*2) (max. +10 dB(*2)), applicable load 1 kΩ or more, RCA jack Gain is adjustable.		
AD Converter	24 bits		
DA Converter	24 bits		
Preset Memory	16		
Signal Processing Section			
Automatic Resonance	Automatic EQ curve creation by ARC, 4 channels (each output channel),		
Control (ARC) Function	settable independently on each channel, ARC measuring start switch X1, ON/OFF LED X1		
Feedback Suppressor	Feedback suppressor filter creation, 8 channels (each monaural input channel),		
Function ''	settable independently on each channel,		
	ON/OFF switch ×8, ON/OFF LED ×8		
Filter	8 channels (each monaural input channel), set high—pass filter: 20 Hz — 20 kHz	ttable independently on each channel,	
Tone Controller	BASS, Low—shelving filter: 20 — 500 Hz, ±15 MID, parametric equalizer: 20 Hz — 20 kHz, = Q: 0.267 — 69.249 TREABLE, high—shelving filter: 6 — 20 kHz, ±1 10 channels (each monaural input channel, ea settable independently on each channel	±15 dB) 5 dB	
Equalizer	Parametric equalizer: 20 Hz - 20 kHz, ±15 d 4 channels (each output		
Matrix	12×4		
Crosspoint Gain	$-\infty$ to 0 dB in 1 dB steps		
Automatic Mute Function	Stereo input section matrix, independent contr	rol	
Function	Input PAD (—16 dB) control, low cut (cutoff fanalog output attenuator (—6 dB, —12 dB, —1 front panel operation lock function, stereo sur function setting panel (3 rotary encoders)	8 dB, -24 dB, -36 dB, -42 dB) control,	



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Front Panel Section		
Input Level Indicator	3-point LED, 12 channels (each monaural input channel, stereo 1L, 1R, 2L, 2R)	
Output Level Indicator	8-point LED, 4 channels (each output channel)	
Auto Resonance Control	ARC measuring start switch X1, ON/OFF LED X1	
(ARC) Measurement		
Feedback Suppressor	ON/OFF switch ×8, ON/OFF LED ×8	
(FBS) Function		
Low Cut	ON/OFF switch ×8, ON/OFF LED ×8	
Stereo Summing	ON/OFF switch ×2, ON/OFF LED ×2	
Tone Control BASS, MID, TREBLE/Settable on the function setting panel, 10 channels		
	(each monaural input channel, stereo 1L, 1R, 2L, 2R)	
Monaural Input,	Gain setting, PAD ON/OFF, Phantom power ON/OFF	
Analog Setting	Settable on the function setting panel, 8 channels (each monaural input channel)	
Stereo Input,	Trim setting	
Analog Setting	Settable on the function setting panel, 6 channels (1-A, 1-B, 1-C), (2-A, 2-B, 2-C)	
REC OUT, Gain Setting	Gain setting	
oo i, odiii oottiiig	Settable on the function setting panel, 2 channels (REC OUT L, REC OUT R)	
Preset Memory Switching	Preset selection switch ×4, ON/OFF LED ×4	
Front Panel Operation Lock	Operation lock switch X1, ON/OFF LED X1	
Operation Status Indication	Operation status LED X3	
Function Setting Panel	Rotary encoder ×3, 10-point position indication LED ×3, Function mode LED ×3	
Analog Volume Fader	Input volume fader X10, Output volume fader X4,	
Allalog Volume Fadel	2 faders linkable with supplied gang bar	
Control Section	2 Tader 3 minable with Supplied gaing but	
Contact Input	8 channels, open voltage: 24 V DC, short-circuit current: 5 mA,	
Contact Input	removable terminal block (10P),	
Contact output	8 channels, no-voltage make contact, contact capacity: 24 V DC/100 mA,	
Contact output		
Remote Control Panel	removable terminal block (10P), 2 channels, Maximum number of units: 8 units per channel	
Remote Control Panel		
	24 V DC input ×2, termination ON/OFF switch ×1, removable terminal block (10P)	
	Maximum total cable length (star wiring): 800 m (total for 2 channels)	
	Maximum cable length (daisy chain wiring): 400 m per channel	
	Note: In daisy chain wiring, the number of units differs depending on the cable length.	
	Star wiring and daisy chain wiring cannot be used together.	
	Type of cable: Shielded CPEV cable (a pair of data cable and a pair of power supply	
	cable) or shielded Cat 5 twisted pair cable for LAN (CAT5—STP)	
Network	Network I/F: 1 channel of 10BASE-T/100BASE-TX (auto-negotiation)	
	RJ45 connector, connection via switching hub	
	Network protocol: TCP/IP	
	Connection cable: Shielded Cat. 5 or higher twisted pair cable for LAN	
	(Cat. 5—STP or better)	
	Maximum cable length: 100 m (between M-864D and switching hub)	
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)	
Operating Humidity	90 %RH (no condensation)	
Finish	Panel: Aluminum, hairline, black, Case: Surface—treated steel plate	
Dimensions	482.6 (W) × 177.1 (H) × 157.2 (D) mm (19" × 6.97" × 6.19")	
Weight	5.1 kg (11.24 lb)	
Accessories	Power supply cord (2 m (6.56 ft)) X1, removable terminal plug (3P) X12,	
	large type removable terminal plug (10P) X2, small type removable terminal plug (10P) X1,	
	fader gang bar ×4, protective cover ×1, rack mounting screw ×4,	
	CD-ROM (containing setup software) X1	
Option	Remote control panel: ZM-9011/9012/9013/9014	
Option	AC adapter: AD-246(*3) (When using the Remote Control Panel)	
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(*3) Consult your TOA dealer when using an equivalent adapter.

Personal Computer Requirements

Requirements	CPU: Pentium 4, 2 GHz or faster	
	Memory: 1.5 GB or more (2 GB recommended)	
	Display: 1024 × 768 resolution or higher	
	Free Hard Disk Space: 16 MB or more, however 600 MB or more is required for the 32-bit	
	version or 1.5 GB or more for the 64-bit version when	
	".NET Framework" is not yet installed	
	Optical Drive: CD-ROM drive, Network Adapter: 10BASE-T or faster connection	
OS	Windows 7 (32/64-bit edition)	
	Windows 10 Pro (32/64-bit edition)	
Required Component	.NET Framework 4 Client Profile	

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