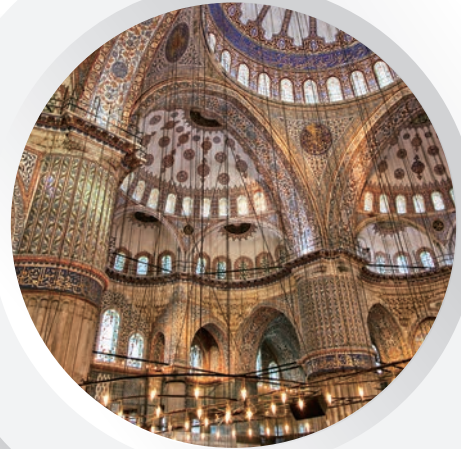




# M-164E-AE

Analog mixer with an effect DSP function



**Stereo effects processor with 16 presets for reverb, delay, chorus and other effects.**

**sound** without compromise

[www.toa.eu](http://www.toa.eu)

# M-164E-AE

## Analog mixer with an effect DSP function

The M-164E-AE is an affordable mixer for installation in mosque, conference room, restaurant or small hall, the 16-channel mixer features 6 mic inputs with XLR inputs and phantom power and highpass filter for great-sounding tracks and a unique design with built-in meter bridge.

With its 5 stereo line inputs the M-164E-AE offers a versatile variety of input channels. Its stereo effects processor comes with 16 programs of reverb, delay, chorus and other sound effects. In addition the mixer features 3-Band EQ on mic channels 1-6, 2-Band EQs on line channels 7-10 and main output, a RIAA phono preamp on channels 9-10 (RCA), Sub and Main output busses, separate stereo and mono outputs for main and aux as well as two aux sends.

### MIXER WITH EFFECT DSP FUNCTION

- variety of input/output connectors for many types of audio instruments
- built-in effect functions for simple mixing with reverb etc.

### USER FRIENDLY PANEL DESIGN

- Visible Level meter for each input channel for easy checking input signal
- A fader for each channel with comfortable operation feeling



### 16 INPUTS (6 MONOs + 5 Stereos)

- 6 microphone/line inputs with phantom power, by XLR and TRS phone jack connector
- 4 stereo inputs by RCA pin jack for any audio device like a CD player etc.
- 1 stereo input by 3.5mm mini jack for any portable audio device

### HIGH QUALITY MIXING

- High quality analog mixing design is implemented by such know-how

### APPLICATION EXAMPLES



Mosque with reverb effect



PA for restaurants



Conference & Lecture rooms



Video conference rooms



Rear Design



Panel Design

### FUNCTIONS

#### Input

- > 16 channels (6 MONO + 5 Stereo) with a fader and a meter-bridge for level monitoring
- > XLR input with phantom power supply and TRS balance input for MONO input Ch 1-6
- > TRS balance input for Ch 7/8, 13/14 (MONO input with only L-Ch connection)
- > RCA unbalance input for Ch 9/10, 11/12
- > 3.5mm mini-jack input for Ch 15/16
- > 3 Bands EQ, and HPF (High pass filter) for Ch 1-6
- > 2 Bands EQ, and HPF (High pass filter) for Ch 7-10
- > Assign switch for Stereo BUS and Sub BUS

#### Output

- > 4 Buses output (Stereo Bus + Sub Bus) with a fader
- > 2 AUX outputs (AUX1 selectable from Pre-fader and Post-fader for Ch 1-10)
- > Effect return from AUX 2 to Ch 13/14 or Ch 15/16, selectable
- > TRS balance output or RCA unbalance output for Stereo and Sub
- > 2 Bands EQ for Stereo BUS output

#### Monitor

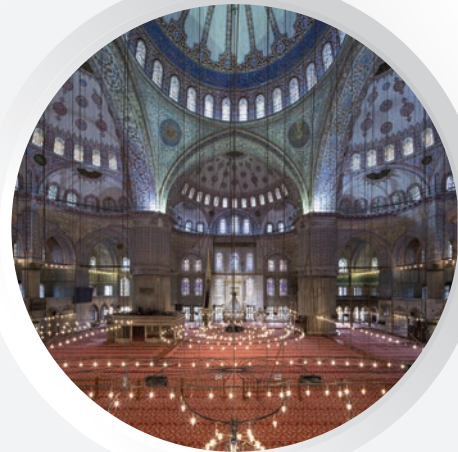
- > With a head-phones, Stereo BUS and Sub BUS can be monitored

#### Effects

- > 16 preset digital effector (Hall1-2, Room1-3, Plate1-3, Chorus, Flange, Delay 1-2, Chorus/Room1-3, Rotary Speaker)

#### Power

- > Cord holder for not losing a connection of a cable of AC adaptor



## SPECIFICATIONS

Power Source	AC 100 - 240V, 50 - 60Hz with AC Adaptor: 12V/ 2.5A
Power Consumption	25W
Frequency Response	20Hz - 20kHz (+1 /-3 dB, Trim at max, 150Ω load)
Hum & Noise	-60dBu or less (1 mic input, Trim at max.) / -52dBu (6 mics input, Trim at max.)
Distortion	<0,01% (20Hz - 20kHz, Trim at min.)
Inputs and Outputs	16 Inputs, 4 Output Buses, 2 Aux Sends, analog
Input	<p>6x Mic/Line Inputs:</p> <ul style="list-style-type: none"> <li>6x Mic Inputs: XLR 3 female, electronically balanced, 2.4kΩ, Input level: nominal -58 dBu (Trim at max.) / max. + 10 dBu (Trim at min.) or</li> <li>6x Line Inputs: 3-pole, electronically balanced, 22kΩ, Input level: nominal -38 dBu (Trim at max.)/ max. + 30 dBu (Trim at min.)</li> </ul> <p>5x Stereo Inputs:</p> <ul style="list-style-type: none"> <li>Input 7-8 &amp; 13-14: line jacks 6.3mm (TRS), electronically balanced, 10kΩ, Input level: nominal +4 dBu/ max. + 22 dBu</li> <li>Input 9-10: RCA pin jacks, unbalanced, 47kΩ (with Phono on), Input level: nominal -10 dBV (-54 dBV with Phono on)/ max. + 11 dBV</li> <li>Input 11-12: RCA pin jacks, unbalanced, 10kΩ (with Phono on), Input level: nominal -10 dBV/ max. + 11 dBV</li> <li>Input 15-16: 3-pole mini jack (tip: L), unbalanced, 10kΩ , Input level: nominal -10 dBV / max. + 11 dBV</li> </ul>
Output	<ul style="list-style-type: none"> <li>Stereo Outputs (L,R) balanced Line jacks 6.3mm, 100Ω, output level: nominal +4 dBu / max. + 24 dBu</li> <li>Stereo Outputs (Mono) pseudo balanced Line jacks 6.3mm, 100Ω, output level: nominal -2 dBu / max. + 20 dBu</li> <li>Stereo Outputs (L,R) unbalanced RCA jacks, 100Ω, output level: nominal -10 dBV / max. + 6 dBV</li> <li>Sub Outputs (L,R) pseudo balanced Line jacks 6.3mm, 150Ω, output level: nominal +4 dBu / max. + 20 dBu</li> <li>Sub Outputs (Mono) pseudo balanced Line jacks 6.3mm, 150Ω, output level: nominal -2 dBu / max. + 20 dBu</li> <li>Aux Send (1,2) jacks Line jacks 6.3mm, 150Ω, output level: nominal +4 dBu / max. + 20 dBu</li> <li>Phones (1,2) line jacks, max output 45mW + 45mW (1%THD, 32Ω load)</li> </ul>
Monitor	By head phone
DSP	3-band/2-band EQ, HPF, Effect Return
Effect	16 preset digital effects
Dimensions	390 (W) x 112 (H) x 344.5 (D) mm
Weight	3.4 kg
Accessories	AC Adaptor x 1, power cord x 2 (for UK 3-pole x 1, Europe 2-pole x 1)

0 dB= 1 V, 0 dBu = 0.775 V

**TOA Electronics Europe GmbH**  
www.toa.eu

Specifications are subject to change without notice.  
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