# Description

The M-633D is a stereo mixer equipped with 12 input channels (6 monaural inputs \((\star 1)\) and 3 stereo inputs) and 6 output channels (2 monaural outputs, 1 stereo output, and 1 stereo recording output). It has 2 monaural channel and 1 stereo channel bus lines, allowing each input signal to be assigned to each bus line independently.

It features digital signal processing functions such as Automatic Resonance Control function \((\star 2)\), Feedback Suppressor function \((\star 3)\), Automatic Clipguard function \((\star 4)\), and Automatic Mute function \((\star 5)\).

It performs advanced acoustic compensation by means of automatic processing without the use of an acoustic measuring instrument.

It can be mounted in an EIA component rack \((1 U\) size).

\(\star 1\) Selectable from microphone input, line input, and phantom power supply input independently for each input.

\(\star 2\) A function that automatically creates a sound field compensation filter \((\star 2)\) to improve sound clarity by measuring the inherent acoustic characteristics in architectural space.

\(\star 3\) AUTO MUTE is also called as Ducker.

# Specifications

<table>
<thead>
<tr>
<th>Power Source</th>
<th>120 V AC, 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>13 W</td>
</tr>
<tr>
<td>Frequency Response</td>
<td>20 Hz - 20 kHz</td>
</tr>
<tr>
<td>Sampling Frequency</td>
<td>48 kHz</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>90 dB or more ((1 H F-A) weighted)</td>
</tr>
<tr>
<td>Distortion</td>
<td>0.03 % or less, 1 kHz, (-10 , \text{dB}(\star 4)) input, 0 dB(\star 4) output ((20 , \text{Hz} - 20 , \text{kHz}) BP)</td>
</tr>
</tbody>
</table>

### Input

6 monaural input channels \((\text{MONO IN 1 - 6})\),
selectable independently from 3 types of inputs below for each channel

- **LINE**: \(-10 \, \text{dB}(\star 4), 2.4 \, \text{k}\Omega\)
- **MIC**: \(-46 \, \text{dB}(\star 4), 2.4 \, \text{k}\Omega\)
- **PHANTOM**: \(-46 \, \text{dB}(\star 4), 2.4 \, \text{k}\Omega\)

supplies phantom power of +24 V DC, 10 mA

electronically balanced

Removable terminal block \((3 \, \text{pins})\), phone jack

3 stereo inputs \((L, R)\) \((\text{STEREO IN 1 - 3})\)

- \(-10 \, \text{dB}(\star 4) / 10 \, \text{k}\Omega,\)
- **RCA** jack \((\text{STEREO IN 1 - 3})\), Stereo mini jack \((\text{ST IN 1})\)

### Output

2 monaural output channels \((\text{MONO OUT 1, 2})\)

- 0 dB(\star 4) \((\text{applicable load: 1 k}\Omega\) or more), electronically balanced, removable terminal block \((3 \, \text{pins})\)

1 stereo output \((L, R)\) channel \((\text{ST OUT L, R})\)

- 0 dB(\star 4) \((\text{applicable load: 1 k}\Omega\) or more), electronically balanced, removable terminal block \((3 \, \text{pins})\)

1 stereo recording output \((L, R)\) channel \((\text{REC OUT L, R})\)

- \(-10 \, \text{dB}(\star 4) \, \text{(applicable load: 1 k}\Omega\) or more), RCA jack

### Bus Line

- Monaural channel \(\times 2\), Stereo channel \(\times 1\)

### AD Converter

24 bits

### DA Converter

24 bits

### Signal Processing

- **Automatic Resonance Control Function**
  3 output channels \((\text{each monaural output channel, stereo output L, R})\), independent settings for each channel, automatic creation of EQ curves \((\text{for sound field compensation})\)
  ARC measurement start switch \(\times 1\), Function ON/OFF check indicator \(\times 1\)

- **Feedback Suppressor Function**
  6 channels \((\text{each monaural input channel})\), independent settings for each channel
  Function ON/OFF switch \(\times 6\), Function ON/OFF check indicator \(\times 6\)

- **Automatic Clipguard Function**
  6 channels \((\text{each monaural input channel})\), independent settings for each channel

- **Automatic Mute Function**
  Function ON/OFF switch \(\times 1\)

### Input Level Indicator

2-color LED indicator: Green \((\text{for appropriate level})\) / red \((\text{for peak level})\)

### Output Level Indicator

2-color LED indicator: Green \((\text{for appropriate level})\) / red \((\text{for peak level})\)
**SPECIFICATIONS**

**Finish**
Panel: Aluminum, black, hairline  
Case: Precoated steel sheet, black, 30 % gloss

**Dimensions**
420 (W) x 44 (H) x 341.3 (D) mm (16.54” x 1.73” x 13.44”)

**Weight**
4 kg (8.82 lb)

**Accessories**
Power cord 12 m (6.56 ft) ……1, Removable terminal plug (3 pins) ……10,  
Rubber foot ……4, Rack mounting bracket ……2, Machine screw (M3 x 8) ……6

**APPEARANCE**

Rear View
![Rear View Diagram]

Front View
![Front View Diagram]

Front View with a assign cover detached
![Front View with Cover Diagram]

Side View
![Side View Diagram]