

IMX644

Digital Installation Mixer



IMX644



Rear Panel

The ideal rack-mount easy-operation digital mixer for installations.

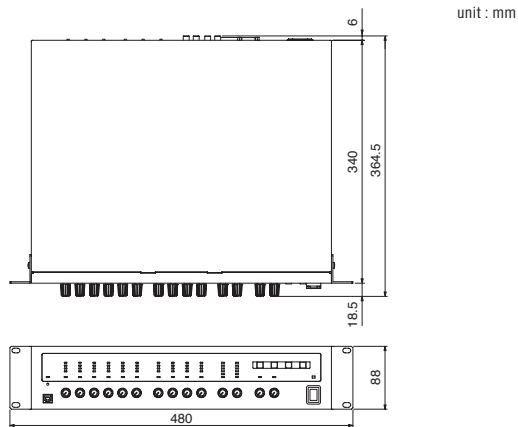
- An excellent choice for an extremely broad spectrum of pro audio installations and applications.
- Comprehensive I/O: 6 mono analog inputs, 4 stereo analog inputs, and 2 stereo analog outputs plus a dedicated stereo output for recording.
- Easy operation via front-panel input and output level controls as well as four buttons for memory recall.
- Internal memory can store up to 16 mixer setups, four of which can be recalled directly from the front panel.
- Feedback suppression on all 6 mono inputs, using both pre-settable filters and automatic detection systems for effective prevention of feedback under widely varying acoustic conditions.
- Optical digital inputs for direct connection to digital sources such as CD players and DVD players.
- Built-in sample rate conversion eliminates the need for word clock settings or synchronization.
- Auto-ducking automatically reduces the volume of background music or other program material when input is applied to a specified channel.
- Precise time-alignment delays can be added to individual outputs to achieve tight focus and maximum sonic clarity throughout the listening area.
- Dedicated "IMX644 Manager" software application allows detailed control of mix parameters other than input and output levels.
- In addition to an RS232C connector for compatibility with AMX, Crestron, and similar external control devices, the IMX644 has a GPI interface that allows memory recall from external devices.

GENERAL SPECIFICATIONS

Number of scene memories	16
Sampling frequency rate	Internal 48kHz
Signal Delay	Less than 2.5ms
Total harmonic distortion	Less than 0.1%
Frequency response	+0.5, -1.5dB 20Hz-20kHz@ nominal output level @1kHz
Hum & noise level* ^{1,2} (20Hz to 20kHz), Rs=150ohms, Input Gain=Max, Input Pad=0dB, Input Sensitivity=-60dB	-120dBu Equivalent Input Noise -82dBu Residual Output Noise
Crosstalk (@1kHz)	Less than -70dB
Phantom Power	+48V
Power requirements	AC100V-240V, 50/60Hz
Power consumption	21W
Dimensions (W x H x D)	480 x 88 x 366.9mm (18.9" x 3.46" x 14.44"), 2U
Weight	5.5kg (12.1 lbs.)

Total harmonic distortion is measured with a 22 kHz low-pass filter.
Equivalent input noise is measured with an IHF-A filter.
Residual output noise is measured with a DIN AUDIO filter.

DIMENSIONS



ANALOG INPUT SPECIFICATIONS

Input terminal	PAD	GAIN	Actual source impedance	For use with nominal	Input terminal		Connector
					Nominal	Max. before clip	
MONO INPUT [1-6]	OFF	MAX	4.2kΩ	50-600Ω Mics & 600Ω Lines	-54dBu	-40dBu	Euroblock*
	ON	MIN	20kΩ		-30dBu	-16dBu	
					-20dBu	-6dBu	
					+4dBu	+18dBu	
STEREO INPUT [1 L/R, 2 L/R, 3 L/R, 4A L/R]			20kΩ	600Ω Lines	-4dBV	+10dBV	RCA Pin Jack**

ANALOG OUTPUT SPECIFICATIONS

Output terminal	Actual source impedance	For use with nominal	Output terminals		Connector
			Nominal	Max. before clip	
OUTPUT [1 A/B, 2 A/B, 3, 4]	900Ω	10kΩ Lines	+4dBu	+18dBu	Euroblock*
REC OUT [L,R]	450Ω	10kΩ Lines	-4dBV	+10dBV	RCA Pin Jack**

DIGITAL INPUT SPECIFICATIONS

Terminal	Format	Data length	Level	Connector
STEREO INPUT [4B]	JEITA CP-1212	24bit	-24 ~ -14.5dBm	OPTICAL
REC OUT	JEITA CP-1212	24bit	-21 ~ -15dBm	

0dBm=1mW

CONTROL I/O SPECIFICATIONS

Terminal	Format	Level	Connector
GPI*	INPUT	Mechanical "make" contact	D-sub 25 pin (Female)
	OUTPUT	—	
	POWER MONITOR	—	
REMOTE	RS232C	RS232C	D-sub 9 pin (Male)
USB	USB 1.1 Function	—	Type B

* INPUT: 8 ports, OUTPUT: 8 ports

BLOCK DIAGRAM

