

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.

IMX644

GENERAL SPECIFICATIONS

Mixing capacity	Mixing channels	6 MONO + 4 STEREO
	Output busses	2 STEREO + 2 MONO
Input channel functions	MONO CH: 3-band PEQ, Feedback suppressor	
	STEREO CH: 2-band PEQ	
Output channel function	6-band PEQ	
I/O	Mic input count	6
	Phantom power	+48V DC; ON/OFF: Each channel
	Line input count	4 STEREO
	AD converters	24bit; 64 times over sampling
	Analog output ports	6 + 1 (REC OUT)
	DA converters	24bit; 128 times over sampling
	Digital I/Os	1 x Optical In/Out (with SRC; trade off with an analog in or analog out)
Internal processing	Priority ducking, Music override	
Sampling frequency	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	EIN	-120dBu
	Residual output noise	-82dBu
Crosstalk	Less than -70dB	
Heat diffusion	18.06kcal/h	
Power requirements	100-240V 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.)	

Output impedance of signal generator: 150Ω

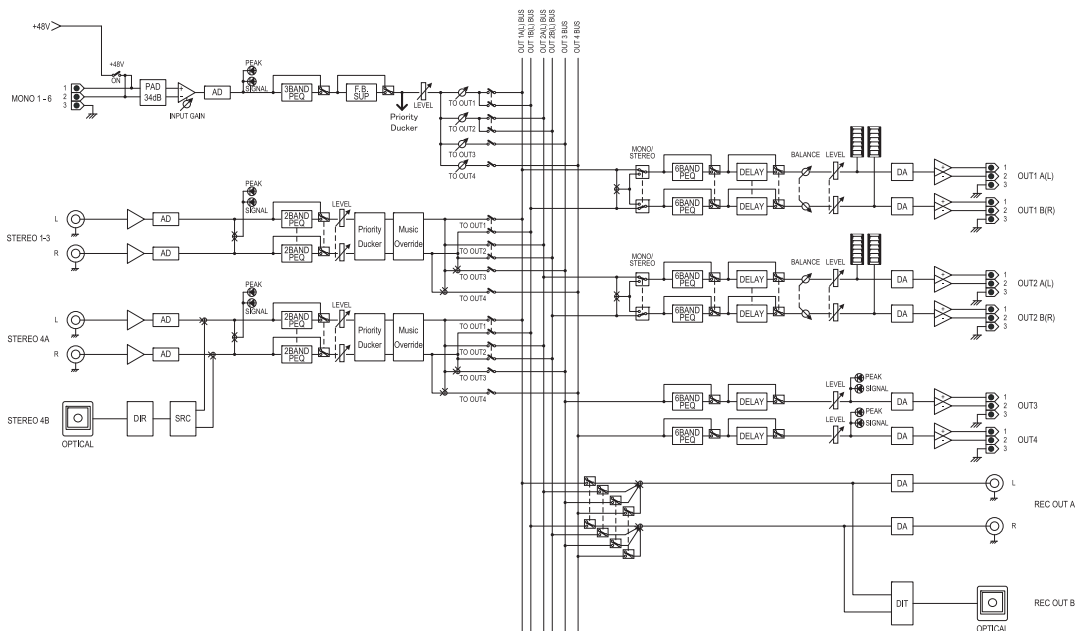
ANALOG INPUT SPECIFICATIONS

Terminal	Pad	Gain	Actual Load Impedance	For Use With Nominal	Input Level		Connector
					Nominal	Max. before Clip	
MONO INPUT [1-6]	OFF	MAX	4.2kΩ	50-600Ω Mics & 600Ω Lines	-54dBu	-40dBu	Euroblock*
		MIN			-30dBu	-16dBu	
	ON	MAX	20kΩ		-20dBu	-6dBu	
		MIN			+4dBu	+18dBu	
STEREO INPUT [1 L/R, 2 L/R, 3 L/R, 4A L/R]			20kΩ	600Ω Lines	-4dBV	+10dBV	RCA Pin jack**

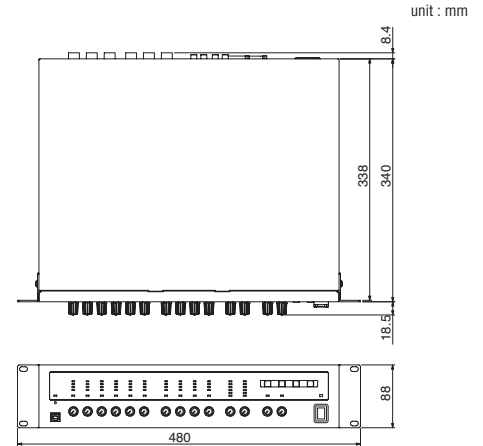
ANALOG OUTPUT SPECIFICATIONS

Terminal	Actual Source Impedance	For Use With Nominal	Output Level		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**

BLOCK DIAGRAM



DIMENSIONS



DIGITAL I/O SPECIFICATIONS

Terminal	Format	Data Length	Level	Connector
STEREO INPUT [4B]	JEITA CP-1212	24bit	-21 -- -15dBm	OPTICAL
REC OUT				
0dBm=1mW				

CONTROL I/O SPECIFICATIONS

Terminal	Format	Level	Connector
GPI	INPUT	Mechanical "make" contact	D-sub 25 pin (Female)
	OUTPUT	-	
	POWER MONITOR	-	
REMOTE	RS-232C	RS-232C	D-sub 9 pin (Male)
USB	USB 1.1 Function	-	Type B

INPUT: 8 ports, OUTPUT: 8 ports