



EMX512SC

[EMX (Box type)]

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Integrated Solutions for Superior Live Sound

Top-quality effects and GEQ on all models, plus compression on the EMX512SC and EMX312SC. Choose 500, 300, or 200 watt stereo power output in a portable box-type mixer.

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General Specifications

Maximum Output Power @ 0.5 % THD at 1 kHz	500 W/4 Ω; 350 W/8 Ω
Frequency Response	-3, 0, 1 dB 20 Hz-20 kHz, ref to the nominal output level @ 1 kHz
Total Harmonic Distortion	Less than 0.5 % (THD+N) +14 dB @ 20 Hz, 1 kHz, 20 kHz, GAIN control: all nominal
Hum & Noise	Equivalent Input Noise, -115 dBu, Rs = 150 Ω CH 1-4 MIC/LINE: MIC
Crosstalk	-65 dB @ 1 kHz
Input Connectors	CH 1-4: XLR and Phone; CH 5/6, 7/8: XLR and Phone; CH 9/10, 11/12: XLR and Pin
CH EQ	HIGH, MID, LOW
Phantom Power	15 V
Graphic Equalizer	7 Band (125, 250, 500, 1 k, 2 k, 4 k, 8 kHz): Main (Stereo) and Monitor
Digital Effects	SPX Digital Multi Effector (24 bit AD/DA, 32 bit Internal Processing): 16 Programs
Power Amp Mode	Main L/R, Main (L+R)/Monitor
Foot Switch	On/Off
Dimensions (W x D x H)	442 x 274 x 286 mm (17-3/8" x 10-3/4" x 11-1/4")
Weight	10 kg (22 lbs.)
Power Requirements	120 V 60 Hz
Power Consumption	450 W

INPUT CHARACTERISTICS

Input Terminals		MIC/LINE	Actual Load Impedance	For Use With Nominal	Input level		
					Sensitivity *2	Position	Max. before clip
CH INPUT 1-4	XLR *3	MIC	2 kΩ	50-600 Ω Mics	-60 dBu (0.69 mV)	-35 dBu (13.8 mV)	-15 dBu (138 mV)
		LINE			-30 dBu (21.8 mV)	-5 dBu (436 mV)	+15 dBu (4.36 V)

	Phone *4	MIC	6 K Ω	600 Ω	-50 dBu (2.18 mV)	-25 dBu (43.6 mV)	-5 dBu (436 mV)
		LINE			-20 dBu (69.0 mV)	+5 dBu (1.38 V)	+25 dBu (13.8 V)
CH INPUT 5/6, 7/8	XLR *3	-	2 k Ω	50-600 Ω Mics	-60 dBu (0.69 mV)	-35 dBu (13.8 mV)	-15 dBu (138 mV)
	Phone *5	-	10 K Ω	600 Ω Lines	-20 dBu (69.0 mV)	+5 dBu (1.38 V)	+25 dBu (13.8 V)
CH INPUT 9/10, 11/12	XLR *3	-	2 k Ω	50-600 Ω Mics	-60 dBu (0.69 mV)	-35 dBu (13.8 mV)	-15 dBu (138 mV)
	RCA Pin	-	10 K Ω	600 Ω Lines	-20 dBu (69.0 mV)	+5 dBu (1.38 V)	+25 dBu (13.8 V)

*1 0 dBu is referenced to 0.775 Vrms.

*2 Sensitivity is the lowest level that will produce an output of +4 dB (1.23 V), or the nominal output level when the unit is set to maximum level. (All level controls are at maximum position.)

*3 XLR-3-31 type connectors are balanced. (1=GND, 2=HOT, 3=COLD)

*4 Phone Jacks are balanced. (Tip=HOT, Ring=COLD, Sleeve=GND)

*5 Phone Jacks are unbalanced.

OUTPUT CHARACTERISTICS

Output Terminals	Actual Source Impedance	For Use With Nominal		Output level		Connector
				Nominal	Max. before clip	
SPEAKER OUT	0.1 Ω	4 Ω Speakers	EMX512SC	125 W	500 W	[A1, B1] SPEAKON
[A1, A2, B1, B2]			EMX312SC	75 W	300 W	[A2, B2] Phone Jack *2
			EMX212S	50 W	200 W	
MAIN OUT [L, R]	600 Ω	10 k Ω Lines	-	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2
EFFECT OUT	600 Ω	10 k Ω Lines	-	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2
MONITOR OUT	600 Ω	10 k Ω Lines	-	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone Jack *2
REC OUT [L, R]	600 Ω	10 k Ω Lines	-	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

*1 0 dBu is referenced to 0.775 Vrms. 0 dBV is referenced to 1 Vrms.

*2 Phone Jacks are unbalanced.

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