

# Yamaha EMX312SC Powered Mixer



## All-in-one for Easy Operation and Fast Setup

The EMX-series powered mixers integrate mixer, power amplifier, graphic EQ, and digital effects into a compact, portable unit. No need for complex setup and wiring – simply plug in and play! The entire system is optimized, so it's easy to get great sound just about anywhere.

## Superior Sound through Painsstaking Design and Parts Selection

Parts selection is crucial to achieving the best possible sound, and Yamaha spares no effort in selecting the best. The critical head amplifier circuit, for example, uses special low-noise chip resistors that are deposited on a thin film of nichrome for accurate, noise-free reproduction. Special care has also been taken in laying out the system's grounding as well as the circuitry in general to ensure that no unwanted noise or interference degrades the quality of the sound.

## Intuitive, Functional Controls and Connectivity

The mixer section offers a total of 12 inputs in a very versatile configuration: channels 1 through 4 are mono microphone or line inputs, channels 5/6 and 7/8 can function either as mono microphone/line inputs or stereo line inputs, and channels 9/10 and 11/12 are stereo line inputs. Connectors are also provided for connection to external power amplifiers and effect processors. Stereo channels 9/10 and 11/12 include phono jacks for direct connection of CD players or other music playback devices, to which the 3-band channel equalizers can be applied as required. There are also two 7-band graphic equalizers that can be used to match speaker and/or room

response for optimum sound.

#### Built-in SPX Effects

Yamaha's SPX effects are widely recognized as being some of the finest available for both recording and live sound. The EMX-series powered mixers feature an SPX effect processor built in, delivering extraordinary effect quality with 32-bit processing. 16 effect programs with adjustable parameters give you top-quality digital reverb, echo, delay, modulation, and distortion.

<b>Maximum Output Power @ 0.5 % THD at 1 kHz</b>	300 W/4 $\Omega$ ; 190 W/8 $\Omega$
<b>Frequency Response</b>	-3, 0, 1 dB 20 Hz-20 kHz, ref to the nominal output level @ 1 kHz
<b>Total Harmonic Distortion</b>	Less than 0.5 % (THD+N) +14 dB @ 20 Hz, 1 kHz, 20 kHz, GAIN control: all nominal
<b>Hum &amp; Noise</b>	Equivalent Input Noise, -115 dBu, $R_s = 150 \Omega$ CH 1-4 MIC/LINE: MIC
<b>Crosstalk</b>	-65 dB @ 1 kHz
<b>Input Connectors</b>	CH 1-4: XLR and Phone; CH 5/6, 7/8: XLR and Phone; CH 9/10, 11/12: XLR and Pin
<b>CH EQ</b>	HIGH, MID, LOW
<b>Phantom Power</b>	15 V
<b>Graphic Equalizer</b>	7 Band (125, 250, 500, 1 k, 2 k, 4 k, 8 kHz): Main (Stereo) and Monitor
<b>Digital Effects</b>	SPX Digital Multi Effector (24 bit AD/DA, 32 bit Internal Processing): 16 Programs
<b>Power Amp Mode</b>	Main L/R, Main (L+R)/Monitor
<b>Foot Switch</b>	On/Off
<b>Dimensions (W x D x H)</b>	442 x 274 x 286 mm (17-3/8" x 10-3/4" x 11-1/4")
<b>Weight</b>	10 kg (22 lbs.)
<b>Power Requirements</b>	120 V 60 Hz
<b>Power Consumption</b>	400 W

[Yamaha EMX312SC Powered Mixer Manual](#)