YAMAHA

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.

The colors and finishes shown may vary from those on the actual products.

Overview Features Specifications Support

Features

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 Painstaking 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.

High-efficiency Power Amplifiers

To make the EMX-series powered mixers light and manageable, the power amplifiers used must be extremely efficient while providing superior sound quality. In fact, the EMX power amplifiers are remarkably efficient, delivering high power with relatively low power consumption and heat generation. At the same time they deliver outstanding audio quality with excellent transient response and low distortion. Power output from all models is quite impressive: 500W + 500W from the EMX512SC, 300W + 300W from the EMX312SC, and 220W + 220W from the EMX212S.

Lightweight, Practical Design

In the EMX series reduced weight does not mean reduced performance. The cabinet is formed of a special lightweight-but-rugged material, while a switching power supply delivers all the clean power the system needs. The power amp itself has also been refined for outstanding sound, extra high efficiency, and reliable performance. The cabinet design allows normal or angled placement for

improved visibility and access.

Uncompromising Reliability and Safety Standards

The EMX-series powered mixers not only meet worldwide safety and electronic emission standards, but they are also subject to more than sixty rigorous internal Yamaha tests that guarantee the highest possible level of reliability.

Forced Air Keeps the System Cool Even in Difficult Conditions

Airflow can be compromised when a powered mixer is rack mounted, and direct sunlight in outdoor applications can raise temperatures to dangerous levels. The EMX-series mixers feature a forced-air cooling system that has been custom-designed for each model to ensure reliable operation and high performance even under difficult conditions.

New Compressor Circuit on the EMX512SC and EMX312SC

Each mono input channel on the EMX512SC and EMX312SC features an advanced compressor circuit that lets you achieve the ideal degree of compression with a single knob. Setting up optimal compression for a source is usually a complicated process, but this unique compressor makes it easy to achieve "musical" compression for enhanced vocal or guitar sound.

Practical Utility Features

The Yamaha FCL (Feedback Channel Locating) system makes locating and eliminating feedback easier than ever. FCL indicators provided on each input channel indicate which channel feedback is occurring in, so you can identify it visually and adjust levels or EQ as required. Another handy features is a Standby switch that mutes channels 1 through 8 so that, for example, after rehearsal or between sets you can mute performer's inputs 1 through 8 without having to change fader settings, while stereo inputs 9 through 12 remain active for background music playback. There's even a footswitch connector that will accept an optional FC5 footswitch for effect on/off control.

Yamaha Speaker Processing

Yamaha Speaker Processing provides optimized matching with Yamaha Concert Club series, BR series or AX series speakers, for clean, solid reproduction that will deliver your music with maximum impact.

Power Amp Mode Selector

The power amp mode switch allows the internal power amplifiers to be configured in a variety of ways. A simple switch setting allows you to set up the ideal main and monitor output configuration for your application.

Optional Rack Mount Hardware

The EMX-series mixers can be conveniently rack mounted using the optional RK512 rack-mount kit.

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