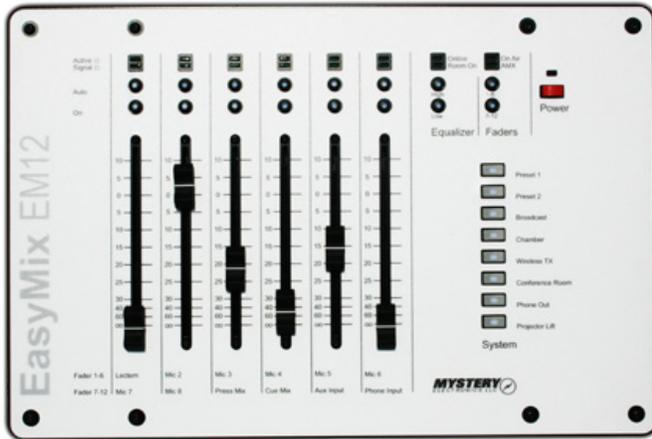# MYSTERY
ELECTRONICS, LLC

EasyMix® EM12 • DSP Control Surface

- **Motorized faders and backlit LED push button switches**

- **Faders, buttons and LED's can be customized to link to most DSP functions**

- **Desktop, rackmount, flush mount and (inlaid) style configurations available**

- **Optional console-style solid hardwood wrapper available**

- **Pre-configured DSP and labeling templates available at easymix.net**

- **Perfect for:**
  Houses of worship
  Board rooms
  Court rooms
  Meeting rooms
  Legislative chambers
  Training rooms
  Auditoriums
  Schools
  Stadiums
  Event centers

Import pre-configured templates into your DSP configuration / design software and have your EasyMix EM12 running in minutes or build your interface from scratch for a fully customized solution.

Equipped with six physical 100mm motorized fader channels, two programmable backlit push buttons and two status indicating LED's per channel located above each fader. Programmable bank selection push buttons and status LED's provide six additional (twelve overall) programmable virtual fader channels. Faders can also be programmed to function as high and low frequency EQ controls.

Each channel's push buttons are programmed to provide auto mixer on / off and channel on / off control. Channel LED's are programmed to indicate status of auto mixer highest gain and signal presence.

The fader buttons are pre-programmed to allow bank selection of faders 1 – 6 or 7 – 12. The EQ buttons are pre-programmed for high gain level and low gain level control of a DSP equalization filter.

Eight user defined backlit push button switches are available to control system selections or can be used to trigger presets.
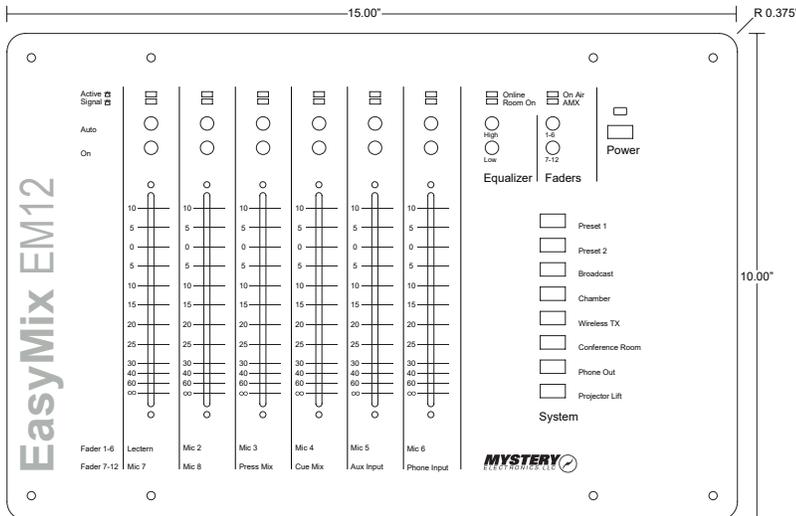
Power switch can be used to trigger an external power sequencer to allow single push button control of the system. The power LED can be driven by the logic output on the power sequencer to indicate system status.

Power connections can be field modified via internal jumper to allow the EM12 power to be controlled remotely. The power indicator LED can be modified to accept 5, 12 & 24 VDC.

The EM12's 14 gauge faceplate ships with stock text and graphics on a laminated polyester overlay. Custom graphics and text for your specific application are available at no additional cost.

All electronics are enclosed in a 16 gauge chassis, and the EM12 has been certified to comply with Part 15 of the FCC's rules and regulations.

Anywhere you need EASY mixing control!

Allows easy access to volume, EQ and many other system functions via Ethernet connection. Supports systems from the following manufacturers:

BIAMP SYSTEMS

BSS by HARMAN

QSC

RANE

Symetrix

Specifications for EasyMix EM12

DSP compatibility: Biamp Tesira®, BSS Soundweb London® (HiQnet Audio Architect required), Q-SYS®, Rane Halogen® and Symetrix SymNet® / Symetrix Jupiter®
Software required: none – built-in web server for access by browser
Faders: 100 mm motorized; field replaceable
USB: Firmware updates and future expansion; USB drive supplied
Power supply: included; input 120VAC @ 0.7 A – output 24VDC @ 1.1 A
Power switch: latching on / off via contact closure
Power status LED: selectable - 5, 12, or 24VDC via internal jumper
Connections: Ethernet RJ45, USB, power switch & status LED – 3.5mm pitch Phoenix® type connectors included
Faceplate dimensions: 15"w x 10"h x .075"d, .375" corner radius
Back enclosure depth: 2.1" nominal
Optional:
  Console style hardwood wrapper: 16.5"w x 11.5"h x 4.25"d
  Rackmount: 19"w x 10.5"h (6RU) x 2.5"d
  Desktop: 17.25"w x 11"h x 4.5"d

A&E specification

A&E Specification: EM12 DSP Control Surface
The DSP Control Surface shall provide remote control capabilities to supported digital signal processors over Ethernet. DSP Control Surface shall be equipped with six (6) each physical fader channels.

Each channel shall provide one (1) each 100 mm motorized fader, two (2) each programmable functions via backlit tactile push button switches, and two (2) each status indicating LED's. DSP Control Surface shall provide programmable control of up to twelve (12) each gain controls and additional field programmable functions for each device within the unit. Eight (8) each customizable tactile push buttons shall be able to be field programmed to control presets or logic functions depending on the options available for each digital signal processor. All tactile backlit push buttons shall be momentary, non-latching and shall provide integral LED status indication.

All program memory shall be non-volatile, no batteries required. DSP Control Surface setup shall be accessible using a built-in web server hosted at the device IP address.

The DSP Control Surface shall have the following rear mounted connectors: Ethernet RJ45, USB type A, power connector, power switch and power status LED.

The DSP Control Surface shall be constructed of satin black, powder coated steel. The DSP Control Surface faceplate shall be 14 ga., with polyester laminated printed designation overlay. All electronics shall be enclosed in 16 ga. chassis.

The DSP Control Surface shall be Mystery Electronics EasyMix series, model EM12 ___.

Select appropriate model variation for desktop, rackmount, or rout-in applications. Specify optional solid hardwood console style wrapper where required.

MYSTERY
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