

DS111 Series Mixers & Equalizers

The industry's largest supplier of design-build soundmasking solutions

tech spec_sheet



FEATURES

- Ideal for layering the soundmasking signal with music and paging sources
- Unique circuitry will not interfere with soundmasking signal or contour
- Inputs and dedicated fader for Two “High Level” (.7-Volt) signals, and one “Lo-Z” (Mic) signal
- Available in One or Two Channel Configuration
- Each channel has a six-band one-octave equalizer for tuning input sources
- Each channel has a colored coded LED display
- Muting for soundmasking and source signals
- Available as shelf mount or 2 RU (3-1/2” high) standard 19” NEMA rack mount
- Security Panels (*not shown*) secure over front controls to prevent tampering.
- High-contrast, easy to use controls
- All models are rated at 100% duty cycle

GENERAL APPLICATION

Dynasound’s DS111 Series of Soundmasking Mixer/ Equalizers are used to increase speech privacy in a variety of environments by layering and tuning the soundmasking mix to then be amplified externally and distributed throughout a soundmasking speaker array. The DS111 series features two distinct models; *The DS1111 is a single-channel model, and the DS1112 is a two-channel model.* Each channel allows for the layering of two Line Level inputs and one Lo-Z level input without interfering with the soundmasking signal. The unique circuitry of this unit permits the mixing and tuning of these auxiliary sources without effecting the shape or volume of a soundmasking source. This level of each auxiliary source can be individually adjusted by a dedicated fader control on the front panel of the unit. Each channel’s six-band, one-octave equalizer is used to tune the auxiliary source mix

These units are designed for continuous use in soundmasking applications (*100% duty*). Each channel is continuously monitored through a dedicated multi-function LED display, indicating “Power On”, output level, and “Overload.”

GENERAL DESCRIPTION AND OPERATION

Dynasound's DS111 series of soundmasking mixer / equalizer units receive a soundmasking signal from an external soundmasking conditioner/ generator and merging in additional sources plugged into barrier post terminals at the rear of the unit. The microphone signal is introduced through an A3M -type connector. The auxiliary signal mix is adjusted by slide controls located on the front panel, then is sent through a pre-equalization filter that minimizes frequencies that are dependent of ceiling tile attenuation for situations where there are ceiling grids. The auxiliary mix is then passed through a six-band one-octave active equalizer and subsequently blended with the soundmasking signal. This is the product that is fed to barrier post terminals on the unit's rear panel labeled output.

Dynasound's DS111 series of soundmasking mixer / equalizer units are available in two basic configurations: The DS1111 has a single mixing module, and the DS1112 has two discrete mixing modules. The appropriate model should be chosen for the respective application. Each model is available for rack mounting (*denoted by the "R" suffix when ordering*) or shelf mounting (*denoted by the "S" suffix when ordering*). Additional details on each model are as follows:

SPECIFICATIONS

DS1111R, DS1111S - Single-Channel Mixer / Equalizer

One discrete mixing module (*one per zone*).

Four Inputs: Two High "Line" Level (.7 Volts),
One Lo-Z "Mic" Level (250-Ohm impedance),
Soundmasking Signal Input (*No Effect*).

Six-band, one-octave active equalizer with ISO center frequencies
of 125Hz, 250Hz, 500Hz, 1kHz, 2kHz, 4kHz (+12 to -9 dB).

Power Requirements: 4 Watts.

DS1112R, DS1112S - Two-Channel Mixer / Equalizer

Two discrete mixing modules (*one per zone*).

Four Inputs: Two High "Line" Level (.7 Volts),
One Lo-Z "Mic" Level (250-Ohm impedance),
Soundmasking Signal Input (*No Effect*).

Each module has a six-band, one-octave active equalizer with ISO center frequencies
of 125Hz, 250Hz, 500Hz, 1kHz, 2kHz, 4kHz (+12 to -9 dB).

Power Requirements: 8 Watts.

Physical

Dimensions: 3-1/2" high, 10-3/4" deep, 18" wide (*shelf mounted*) or 19" wide (*rack mounted*).

Power: 120 Volt, 60 Hz, fused (*See power consumption above, listed by model*).

Finish: Metal, Black finish, unfinished metal side panels for shelve mount
or Black "L" metal bracket adapters for standard 19" rack mount

ORDERING INFORMATION

DS1111R, DS1111S – **One-Zone**
Soundmasking Equalizer / Mixer.
Shipping weight: 15 lbs.

DS1112R, DS1112S – **Two-Zone**
Soundmasking Equalizer / Mixer.
Shipping weight: 15 lbs.

Note:

R suffix denotes rack mount unit

S suffix denotes shelf mount unit