

DS1092

Soundmasking Generator, Mixer and Amplifier

tech spec_sheet

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

FEATURES

- Soundmasking generator, mixer, and amplifier – *all in one compact housing*
- Internal analog Gaussian random soundmasking signal
- Switchable Pink/ White Noise source
- Built-in mixer allows layering of soundmasking with music and paging
- Variety of Line and Mic level inputs
- 70-Volt or 8-Ohm outputs
- Powerful 40-Watt Amplifier
- Low pass filter allows tuning of the soundmasking spectrum
- Rated for commercial or security usage
- Easy to use controls
- Designed for 100% duty cycle



GENERAL APPLICATION

Dynasound's DS1092 Soundmasking Generator/ Mixer/ Amplifier is designed for use in soundmasking applications that require the flexibility of many features, yet space and/or economy are a consideration. The unit features a simple and clearly labeled control panel for ease of use. It offers many of the most popular features usually found on larger centralized soundmasking systems, taking the place of various rack-type components. The DS1092 is effective when **DIAM and DCID requirements for SCIF** need to be met.

GENERAL DESCRIPTION AND OPERATION

The DS1092 is a rugged, field-proven unit that generates a Pink or White Noise signal that can be tuned using a low pass filter. This offers the flexibility to tune the soundmasking signal specific to the needs of any application. Because the soundmasking signal is of an analog, Gaussian random source, the unit can be used for electronic eavesdropping protection application, or to impede signal recovery methods.

The DS1092's integrated mixer allows the unit to layer background music, paging, or other source with the soundmasking signal. Microphone and Line level inputs (*XLR and Phono jacks*) facilitate the connection of various sources. For paging, either barrier-type input posts or the Mic level (*XLR*) input may be used. The Mic level input is compatible for use with both high and low impedance microphones. Any type of music source, such as leased music line, AM/FM tuner, CD player, or tape recorder, can be connected to the Line level input. Bass and Treble controls adjust the tone of the mixed sources.

The amplifier section can drive up to forty soundmasking speakers or security devices continuously at either 8-Ohm or 70-Volt load distribution. The DS1092 is powerful enough to drive commercial soundmasking applications in spaces up to 10,000 *sq.ft.* For eavesdropping protection, the unit can drive up to forty devices, each protecting a separate possible breach point. The DS1092 has a potent one-channel (*monaural*) amplifier with large heat sinks. A sophisticated two-channel system can be made by addition of another unit. The DS1092 requires only the addition of loudspeakers to be a complete sound system.

Because of its compact size and light weight, the unit is shelf mounted and portable. It does not require any additional mounting hardware and will operate in any room environment with adequate ventilation.

SPECIFICATIONS

Inputs

Microphone Input: XLR type (*High/ Low Impedance*)

Page Input: Barrier Post type (*Balanced*)

Music/ Line Input: RCA PHONO type (*Line Level*)

Outputs

Soundmasking Speaker Output: Barrier Post type with outputs for 70-Volt Distribution or 8-Ohm Impedance (*also stable at 4-Ohm and 16-Ohm loads*). Posts for 70-Volt, 8-Ohm, COMMON, and GND (*ground*).

Soundmasking Output: RCA PHONO type (*Line Level*), Signal is Post-Mixer (*Soundmasking, Low Pass Filter, Paging, Music, and Microphone levels will be represented in output*)

Controls

Front panel master VOLUME control

Front panel MASKING signal level control

Front panel LOW PASS filter control

Front panel BASS level control (*Paging, Music, and Microphone only*)

Front panel TREBLE level control (*Paging, Music, and Microphone only*)

Front panel PAGING input level control

Front panel MUSIC input level control

Front panel MICROPHONE input level control

Front panel ON indicator light

Front panel SIGNAL indicator light

Front panel PINK/WHITE noise switch

Rear panel switch to choose high or low level AUX input

Power

Input: 120 VAC, 135 Watts Fused

Output: Nominal 40 Watts, Rated

70-Volt or 8-Ohm impedance

Physical

Dimensions: 3-1/2" high, 9" wide, 11-1/2" deep

ORDERING INFORMATION

DS1092 Soundmasking Generator/ Mixer/ Amplifier

Shipping Weight: 10 lbs.