

# DS160 Series Multi-Zone Soundmasking Amplifiers

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

tech spec\_sheet



## FEATURES

- Available in Two- or Four-Dedicated Channel Configurations
- Configured with Thirty or Sixty Watt per zone
- Each amplifier module has a precision Seven-Position level control with 1.5 dB increments
- Low pass filter with variable cutoff frequency selection
- Available as shelf mount or 2 RU (3-1/2" high) standard 19" NEMA rack mount
- Each channel has a colored coded LED display
- Discrete "High-Level" input (standard .7 Volt)
- Dedicated internal electronics and amplifier output fuses protect zone module against power surges
- High-contrast, easy to use controls
- All models are rated at 100% duty cycle

## GENERAL APPLICATION

Dynasound's DS160 Series of Soundmasking Amplifiers are used to increase speech privacy in a variety of environments by amplifying the soundmasking mix throughout multiple soundmasking speakers within a specific zone. Based on configuration, the DS160 series of soundmasking amplifiers come with either two or four discrete amplifier modules (*DS1603, two channel model; DS1604, four-channel model*). Each amplifier module has a dedicated .7-Volt "High-Level" input circuitry with precision 1.5 decibel (dB) increment zone padding control. This level of precision adjustment is not possible on power output side of most amplifiers, making the fine-tuning of individual zones difficult. In addition, each zone has a coarse rotary level control on each amplifier output, inconspicuously located on the rear panel of the unit to deter tampering.

Each amplifier channel can adequately power medium to large sized zones with a 70-Volt distributed line load. These units are designed for continuous distribution of soundmasking (100% duty). Each amplifier channel is continuously monitored through dedicated multi-function LED displays, indicating "Power On", output level, and "Overload."

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## GENERAL DESCRIPTION AND OPERATION

Dynasound's DS160 series of Soundmasking Amplifiers are available in two basic configurations: The DS1603 has two 60-Watt amplifier modules, the DS1604 has four 30-Watt amplifier 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

### **DS1603R, DS1603S - Two Channel Soundmasking Amplifier**

Two discrete power amplifiers (*one per zone*).

Each has a dedicated Input Module: High Level (.7 Volts), 32 K-Ohm impedance.

Each amplifier conservatively rated @ 60 Watts RMS, Constant 70-Volt distributed line.

Power Requirements: 300 Watts.

### **DS1604R, DS1604S - Four Channel Soundmasking Amplifier**

Four discrete power amplifiers (*one per zone*).

Each has a dedicated Input Module: High Level (.7 Volts), 32 K-Ohm impedance.

Each amplifier conservatively rated @ 30 Watts RMS, Constant 70-Volt distributed line.

Power Requirements: 300 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 below, listed by model*).

*Finish:* Metal, Black finish face plate, Black finish metal side panels for shelf mount  
or Black finish metal bracket adapters for standard 19" rack mount

## ORDERING INFORMATION

DS1603R, DS1603S – **Two-Zone**

Soundmasking Amplifier, 60-Watts per channel.

Shipping weight: 26 lbs.

DS1604R, DS1604S – **Four-Zone**

Soundmasking Amplifier, 30-Watts per channel.

Shipping weight: 28 lbs.

Note:

R suffix denotes rack mount unit

S suffix denotes shelf mount unit