

ASPIRE IWS82

Aspire® Dual 8" In-Wall Subwoofer

- > Audiophile performance in-wall subwoofer
- > Dual 8" woven poly-glass composite drivers
- > Steel composition baskets
- > Eight-layer voice coils
- > "Zero-bezel" frameless steel grilles, paintable
- > Spring-loaded toggle clamp mounting system
- > 200 Watt program power handling
- > 25 to 150 Hz frequency range
- > 8 Ohms nominal impedance
- > Built-in 120 Hz, 2nd order low-pass filter
- > Fits in a 2X4 framed wall with 5/8" gypsum board^[1]

The Aspire® IWS82 is a passive in-wall subwoofer designed to produce deep, gratifying bass in any room without taking up valuable floor space. For demanding multiroom audio and home theater applications, the full low end delivered by the Aspire IWS82 adds impact to any in-wall or in-ceiling speaker system. High-end composition and paintable zero-bezel grilles provide a perfect complement to other Crestron® Aspire and Essence® speakers, offering easy installation and a discreet appearance anywhere extended low-frequency response is desired.

To achieve maximum performance in a minimal space, Crestron has employed dual high-performance 8" woofers featuring eight-layer voice coils and woven poly-glass composite cones. The use of two 8" woofers affords tighter sounding bass than one comparable 12" woofer, with the added benefit of fitting in a standard 2X4 framed wall with 5/8" gypsum board.^[1] Total power handling for the Aspire IWS82 is 200 Watts (program) at 8 Ohms, with a tailored frequency response of 40 Hz to 120 Hz (± 3 dB) and a usable range from 25 Hz to 150 Hz.

The Aspire IWS82 is a passive subwoofer designed to accommodate a variety of system configurations:

- **Single Room or Multiroom Stereo Audio, Passive Low-Pass Filters** – Any stereo speaker system using Crestron Aspire or Essence speakers can easily be augmented for increased bass output by simply connecting a pair of Aspire IWS82 subwoofers in parallel with the main left and right speakers. Built-in 120 Hz low-pass filters provide the essential crossover required to remove higher frequencies from the subwoofers. For multiroom audio systems, this solution eliminates the need for any extra wiring or amplification for the subwoofers.^[2]
- **Multiroom Stereo Audio, Bi-amplified, Passive Low-Pass Filter** – A Crestron **C2N-AMP-6X100** Audio System offers an affordable multiroom audio solution that can be configured to support one or more rooms equipped with Aspire IWS82 subwoofers. Each subwoofer can be driven by a dedicated 150 Watt bridged mono amp channel, while the crossover is handled by the subwoofer's built-in 120 Hz low-pass filter.



- **Multiroom Stereo Audio, High-Power Bi-amplified, Active Crossover & DSP** – A Crestron **Sonnex®** Multiroom Audio System offers the ultimate solution for handling multiple rooms with subwoofers. It can provide a dedicated subwoofer amp channel for each room, with up to 400 Watts available in bridged mono mode. Any room can be configured with a single mono subwoofer or a pair of stereo subwoofers. A choice of 2nd or 4th order active crossover filters, plus up to four bands of parametric EQ, provide meticulous control for tailoring each subwoofer to the room it's in.
- **Surround Sound, Bi-amplified, Active Crossover & DSP** – The Crestron **HD-XSPA** 7.1 Surround Sound AV Receiver includes built-in amplification to drive a single Aspire IWS82 subwoofer, and comprehensive signal processing to optimize the subwoofer's performance within the room.

ASPIRE IWS82 Aspire® Dual 8" In-Wall Subwoofer

SPECIFICATIONS

Features & Performance

Woofers: (2) 8 inch (203 mm) woven poly-glass composite w/rubber surround, 8-layer voice coils, steel baskets

Low-Pass Filter: 120 Hz, 2nd order

Impedance: 8 Ohms nominal

Frequency Response: 40 Hz to 120 Hz (± 3 dB)

Frequency Range: 25 to 150 Hz (-10 dB)

Power Handling: 200 Watts program

Sensitivity: 89 dB @ 1W/1m

Connections

Input: (2) spring terminals;

Maximum Wire Size: 10 AWG

Environmental

Temperature: 41° to 104°F (5° to 40°C)

Humidity: 10% to 90% RH (non-condensing)

For indoor use only

Construction

Baffle: ABS plastic, black

Grille: Steel with white textured finish, paintable, magnetically-held "zero-bezel" frameless design

Mounting: Flush wall mount using 8 integral spring-loaded toggle clamps, 1.35 in (34 mm) maximum surface thickness, 4.13 in (105 mm) minimum mounting depth, 19.2 in (488 mm) high x 9.8 in (249 mm) wide recommended cutout

Dimensions

Height: 19.87 in (505 mm)

Width: 10.45 in (266 mm)

Depth: 4.30 in (110 mm)

Weight

10.5 lb (4.8 kg)

MODELS & ACCESSORIES

Available Models

ASPIRE_IWS82-W-T-EACH: Aspire® Dual 8" In-Wall Subwoofer, White Textured, Single

Notes:

1. Minimum mounting depth is 4.13 inches (105 mm). Fits in a 2X4 framed wall with 5/8" gypsum board and 16" o.c. stud spacing.
2. Paralleling a single Aspire IWS82 with any single Aspire or Essence 2-way in-wall or in-ceiling speaker produces a load impedance of =6 Ohms.

Crestron warrants to the original end purchaser that this Crestron Speaker Product, when purchased directly from Crestron or an authorized Crestron Dealer, will be free from defects in material and workmanship for the life of the product except for speaker grills and outdoor rated speakers, which are warranted for five (5) years. Crestron will at its option and expense either repair the defect or replace the Speaker Product with a new or remanufactured Product or a reasonable equivalent. In cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, Crestron assumes no responsibility or liability for such modifications.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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