

# Stealth Acoustics

# AX3

## Three Way Totally Invisible In-Wall or In-Ceiling Loudspeaker Balanced Drive Midrange™

### **Recommended Applications:**

High-End Multi-Room Audio Systems  
Foreground Music  
Background Music  
Voice Paging  
Surround Sound  
Sound Reinforcement

### **Recommended Installations:**

Flush mounted in walls or ceilings constructed of wood or steel framing with 1/2" or thicker gypsum wallboard.

Minimum 3-3/8" depth required.

### **Performance:**

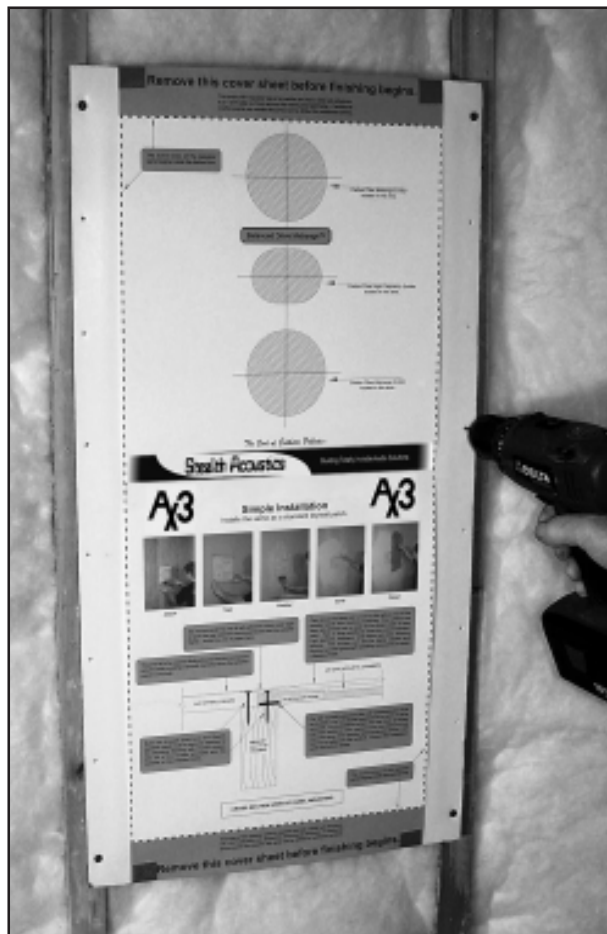
150 Watts RMS  
40Hz to 20kHz (see Figure 1.)

### **Protection:**

Three independent self-resetting circuits (low, midrange, and high-frequency).

### **On-Site Finish Options:**

Finish options include latex paint, flat finish, orange peel texture, and light plaster.  
Additional wall coverings include light wallpaper and light fabric.



### **Description:**

The Stealth Acoustics model AX3 is a three-way, full-range loudspeaker system that becomes completely invisible after installation. The loudspeaker has a rigid frame which attaches directly to standard structural framing without the need for special mounting brackets. The paintable active diaphragm face is a structurally modified three layer composite consisting of two layers of graphics grade paper with a foam core. The diaphragm is bonded to the frame of the speaker panel, creating an active area surrounded by a stable mounting area. Basic installation instructions are shown on a removable cover sheet that is to be removed before taping and finishing begins. The face of the panel has been pre-primed and is ready to receive finishing materials. The edges of the panel are tapered similar to the edges of gypsum wallboard, providing the room necessary for normal wallboard tape and joint compound to be used to feather the speaker seamlessly into the wall. The AX3 loudspeaker comes equipped to match 1/2" wallboard. Shim material is provided for thicker wallboard installations. On-site finishing options include latex paint, light wallpaper, fabrics and selected texture coats. There is no need for special vellums or other nonstandard wallboard finishing materials.

The Stealth AX3 incorporates an acoustically coupled high quality, high-power 8" cone woofer, two direct coupled midrange emitters and a single direct coupled high frequency emitter. The direct coupled devices incorporate a 25mm Neo-Magnet Motor bonded to carbon fiber transmission plates. When the AX3 is installed in standard insulated 2x4 framing and allowed to function in a full 8' stud bay, frequency response below 40 Hz can be achieved. The AX3 contains three independent protection circuits (high, mid, and low-frequency sections) that automatically reset upon reduction of excessive amplifier power.

Stealth Acoustics' invisibility offers a powerful advantage over other loudspeakers, as they can be placed wherever they sound best, free of visual concerns that may conflict with architectural features. Accompanying the full range panels, Stealth Acoustics offers the B1630, a completely invisible companion subwoofer solution for extended low frequency response. All Stealth Acoustic products are covered by a 5-year manufacturers warranty as well as an optional 15 year extended warranty. The AX3 also has 70 and 25 volt transformers available as factory installed options.

Stealth Acoustics

Totally Invisible Audio Solutions

## Architect and Engineering Specifications

The loudspeaker shall be a three-way, full-range device, producing frequencies from 40Hz to 20kHz. Total radiating surface shall be 480 square inches and high frequency dispersion shall be a nominal 170 degrees in both horizontal and vertical planes. The loudspeaker system shall have a sensitivity of 85dB, 1 watt, 1 meter, with a capacity of 150 watts RMS according to EIA standard RS-426-A. The loudspeaker shall have three independent self-resetting protection devices, one each for the high-frequency, midrange and the low-frequency drivers.

The loudspeaker shall fit into standard wood or steel stud construction with a minimum 3-1/2" depth wall cavity. The loudspeaker shall mount directly to the structural framing and have the capability of seamlessly adjoining 1/2 or 5/8" gypsum wallboard. For proper installation, minimum distance between framing members shall be 9-1/2". Front panel finishing methods shall be consistent with normal gypsum wallboard finishing techniques and may include, latex paint, light wallpaper, light fabric, flat finish, orange peel texture and light plaster.

The loudspeaker shall be the Stealth Acoustics model AX3 and shall carry a 5-year manufacturer's warranty.

### Specifications

#### Frequency Response

40Hz to 20kHz -4db (See Figure 1.)

#### Power Capacity

150 Watts RMS

#### Protection

3 Independent self-resetting devices.  
(LF, MF and HF)

#### Sensitivity

85db 1 W /1 Meter.

#### Driver Components

High Frequency: 25mm Neodymium Motor  
Mid Frequency: 25mm Neodymium Motor (2)  
Low-Frequency: 1-1/2" Voice Coil, 8" Woofer,  
Ceramic 20oz Magnet

#### Rated System Impedance

4 ohms

#### Polar Dispersion

170 degrees Vertical and Horizontal

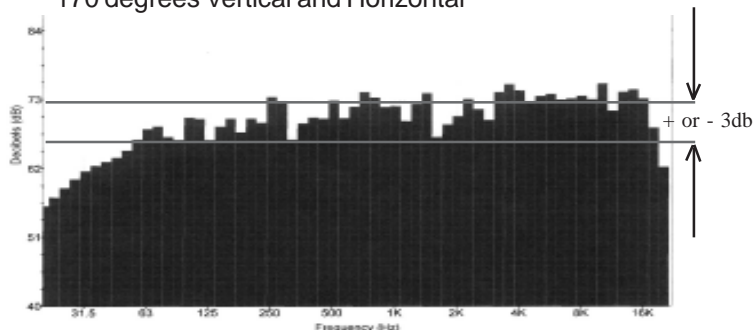


Figure 1 - On-Axis Frequency Response, in standard stud wall, with 4 coats of latex paint applied to the face of the speaker panel.



Rear View

#### Dimensions

15-7/8" (403mm) Wide

30" (762mm) High

3-1/4" (82.55mm) Deep, measured from back side of mounting flange to back of woofer magnet

#### Finish

Pre-primed, graphic arts grade paper

#### Product Weight

19 Lbs. (8.8 kg)

#### Shipping Weight

42 Lbs. (18 kg) - shipped in pairs

#### Included Accessories

1/8" shims for 5/8" drywall installations  
Mounting Screws

#### Optional Accessories

PS-30 Place Saver  
1630BX MDF Acoustic Back Box  
MBX-30 UL Listed Metal Back Box  
SK-1 Shim Kit  
Constant Voltage Transformers  
Extended Warranty - 15 year

## Stealth Acoustics

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