

Sound-Focusing Speaker



			FICATIO	

Impedance (Nominal) ¹         8 Ω stereo I 4 Ω mono           Sensitivity dB @ 2.83 V / 1 M         75 dB           Sensitivity dB @ 1 W / 1 M²         75 dB           Frequency Response (±3 dB)³         170 Hz - 22 kHz (300 Hz with high-pass filter)           Max. Program Power ⁴         30 W           Max. Power SPL @ 1 M °         87 dB           Coverage Angle (±6 dB @ 2 kHz)         65°           Coverage Angle (±6 dB @ 10 kHz)         55°           Coverage Angle (Avg. 2-10 kHz)         45°           Directivity Factor (0)         23.4 (averaged 100 Hz - 10 kHz)   27.5 (2 kHz)           Directivity Index (DI)         12.4 dB (averaged 100 Hz - 10 kHz)   14.4 dB (2 kHz)           Tap Selector         Optional J-box transformer with four-position rotary switch           Transducers         Twin 25.4 mm (1") full-range aluminum concave           Low Frequency Voice Coil         75 Hz or 350 Hz switchable           Network Type: High Pass         6 dB per octave, 1st order           Dome Material         High-impact polystyrene           Inputs         Four-conductor 16-gauge hardwire leads, CAT V cable included for optional accessories           Height         332.7 mm   13.1"           Dome Diameter         781.1 mm   30.75"           Weight         2.5 kg   5.5 lbs           Included Accessories<	System Type	2 x 25 mm stereo or mono high-directivity (8 $\Omega$ stereo   4 $\Omega$ mono). Optional transformer for distributed systems (25, 70.7, 100 V).		
Frequency Response (±3 dB) <sup>3</sup> 170 Hz - 22 kHz (300 Hz with high-pass filter)  Frequency Response (±10 dB) <sup>3</sup> 130 Hz - 22 kHz (300 Hz with high-pass filter)  Max. Program Power <sup>4</sup> 30 W  Max. Continuous Power RMS <sup>5</sup> 15 W  Max. Power SPL @ 1 M <sup>6</sup> 87 dB  Coverage Angle (±6 dB @ 2 kHz) 55°  Coverage Angle (Avg. 2-10 kHz) 45°  Directivity Factor (0) 23.4 (averaged 100 Hz - 10 kHz)   27.5 (2 kHz)  Directivity Index (DI) 12.4 dB (averaged 100 Hz - 10 kHz)   14.4 dB (2 kHz)  Tap Selector Optional J-box transformer with four-position rotary switch  Transducers Twin 25.4 mm (1") full-range aluminum concave  Low Frequency Voice Coil 20.5 mm   0.81"  High Pass Filter 75 Hz or 350 Hz switchable  Network Type: High Pass 6 dB per octave, 1st order  Clear PETG dome  Grille and Enclosure Material High-impact polystyrene  Inputs Four-conductor 16-gauge hardwire leads, CAT V cable included for optional accessories  Height 332.7 mm   13.1"  Dome Diameter 781.1 mm   30.75"  Weight 2.5 kg   5.5 lbs  Included Accessories Hanging hardware, mounting bushing, and 15-foot hardwire lead Motion sensor (FP-Motion), LED light (FP-Light), 10 or 20 W transformers with junction boxes for 25, 70.7, and 100 V applications (AC-JB10-XFMR, AC-JB20-XFMR), external amplification unit with power supply (SA202-RDT), wall bracket (AC-WB4), and rigid mount adapters (AC-FP6-RMA).	Impedance (Nominal) 1	8 $\Omega$ stereo   4 $\Omega$ mono		
Frequency Response (±3 dB)³ 170 Hz - 22 kHz (300 Hz with high-pass filter)  Frequency Response (±10 dB)³ 130 Hz - 22 kHz (300 Hz with high-pass filter)  Max. Program Power⁴ 30 W  Max. Continuous Power RMS⁵ 15 W  Max. Power SPL@1 M° 87 dB  Coverage Angle (±6 dB@2 kHz) 65°  Coverage Angle (±6 dB@0 10 kHz) 55°  Coverage Angle (Avg. 2-10 kHz) 45°  Directivity Factor (0) 23.4 (averaged 100 Hz - 10 kHz)   27.5 (2 kHz)  Directivity Index (DI) 12.4 dB (averaged 100 Hz - 10 kHz)   14.4 dB (2 kHz)  Tap Selector Optional J-box transformer with four-position rotary switch  Transducers Twin 25.4 mm (1") full-range aluminum concave  Low Frequency Voice Coil 20.5 mm   0.81"  High Pass Filter 75 Hz or 350 Hz switchable  Network Type: High Pass 6 dB per octave, 1st order  Clear PETG dome  Grille and Enclosure Material High-impact polystyrene  Inputs Four-conductor 16-gauge hardwire leads, CAT V cable included for optional accessories  Height 332.7 mm   13.1"  Dome Diameter 781.1 mm   30.75"  Weight 2.5 kg   5.5 lbs  Included Accessories Hanging hardware, mounting bushing, and 15-foot hardwire lead Motion sensor (FP-Motion), LED light (FP-Light), 10 or 20 W transformers with junction boxes for 25, 70.7, and 100 V applications (AC-JB10-XFMR, AC-JB20-XFMR), external amplification unit with power supply (SA202-RDT), wall bracket (AC-WB4), and rigid mount adapters (AC-FP6-RMA).	Sensitivity dB @ 2.83 V / 1 M	75 dB		
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Dome Diameter  781.1 mm   30.75"  Weight  2.5 kg   5.5 lbs  Included Accessories  Hanging hardware, mounting bushing, and 15-foot hardwire lead  Motion sensor (FP-Motion), LED light (FP-Light), 10 or 20 W transformers with junction boxes for 25, 70.7, and 100 V applications  (AC-JB10-XFMR, AC-JB20-XFMR), external amplification unit with power supply (SA202-RDT), wall bracket (AC-WB4), and rigid mount adapters (AC-FP6-RMA).	Inputs			
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<b>Certifications</b> CE, RoHS	Optional Accessories	formers with junction boxes for 25, 70.7, and 100 V applications (AC-JB10-XFMR, AC-JB20-XFMR), external amplification unit with power supply (SA202-RDT), wall bracket (AC-WB4), and rigid mount		
	Certifications	CE, RoHS		

## **Description**

The FP6030-II delivers targeted audio in a unique package by incorporating two full-range, high-performance, 1" concave, aluminum dome, high-excursion drivers with patented 30.75" Dual-Parabolic<sup>TM</sup> sound domes. All models can be wired in either 8  $\Omega$  stereo or 4  $\Omega$  mono with an optional 25, 70.7, or 100 V transformer available.

#### **Features**

- Patented Dual-Parabolic<sup>™</sup> dispersion control technology provides a targeted audio footprint with true stereo separation
- Twin 25.4 mm (1") concave aluminum highexcursion drivers in individually sealed compartments for stereo or mono music and messaging
- Patented ZeroReflection<sup>™</sup> enclosure technology for accurate sound reproduction
- Narrow 45° coverage angle for sharp focus (2-10 kHz, independently verified)
- 781.1 mm (30.75") custom-molded PETG clear polymer dome for minimal visual impact
- User-selectable 350 Hz high pass filter
- Single-point balanced mounting for easy and clean-looking installs
- Ships with clear dome, custom colors available
- Included accessories: hanging bracket, mounting bushing and a 15-foot hanging cable which includes four 16-gauge inputs and a CAT V cable
- Optional modules include motion sensor (FP-Motion) and LED light (FP-Light)
- Optional electronic accessories include 10 and 20
  W transformers with junction box for 25, 70.7,
  100 V applications (AX-JB10-XFMR, AC-JB20-XFMR) and an external amplification unit with
  power supply (SA202-RDT) for use with any FP
  module
- Additional optional accessories include: wall bracket, and rigid mount adapter
- Ships as individual unit, bulk shipping available

 $<sup>^{\</sup>rm 1}$  Impedance listed per IEC 60268-5 with a minimum less than 80% the nominal impedance

 $<sup>^{\</sup>rm 2}$  1 W/1 M sensitivity determined using nominal impedance

<sup>&</sup>lt;sup>3</sup> Frequency response measured in half or full space as dictated by speaker mounting configuration

<sup>&</sup>lt;sup>4</sup> Max program power is 3 dB above max continuous power

<sup>&</sup>lt;sup>5</sup> Continuous power rating, EIA-426-B test

<sup>&</sup>lt;sup>6</sup> Max output based on max continuous power



Sound-Focusing Speaker

## Optional Transformer Taps (Using AC-JB10-XFMR)

70.7 V	Output	100 V	Output	25 V	Output
10 W	85 dB	10 W	85 dB	1.25 W	76 dB
5 W	82 dB	5 W	82 dB	0.63 W	73 dB
2.5 W	79 dB	2.5 W	79 dB	0.32 W	70 dB
1.25 W	76 dB			0.16 W	67 dB

### **FP-Specific Modular Options**

SoundTube-engineered modular options enhance and expand FP series performance characteristics and applications. Modules include motion sensor (FP-Motion), LED light (FP-Light). A 15 V, 5-amp or 15 V, 3-amp power supply (AC-PS-1550 or AC-PS1530) is required for optional modules. A single AC-PS-1550 or AC-PS1530 will power one or any combination of modules.

#### **FP-Motion**

The motion sensor (FP-Motion) module has instant on and time-delayed off triggers. The time delay is installer-adjustable and ranges from 1 - 12 seconds. The FP-Motion includes a stereo signal path relay that completes the audio circuit to deliver sound when motion is detected. To trigger external devices, the motion sensor includes a 12 V output signal and contact closure.

## **FP-Light**

The light option (FP-Light) delivers a natural warm LED light, which can be used in conjunction with the motion sensor and amp, but not the ScentAir. Light intensity is governed either globally (externally) or locally via an onboard brightness control centered on the motherboard. To activate the light with motion, the FP-Motion module may be used. FP-Light module specs listed below.

Color: Warm WhiteColor Temperature: 3100 KMax Brightness: 75 Lumens

Beam Pattern: 120°Power Draw: 2 W

### **Applications**

High-definition music and messaging with tight coverage, full-range stereo sound (130 Hz - 22 kHz,  $\pm 10$  dB) and true audio containment (45° averaged, 2-10 kHz) make the FP6030-II the ideal choice for focused audio applications including kiosks, P.O.P. displays, trade shows, digital signage or anywhere contained high-fidelity stereo or mono sound is required but visual impact must be minimized.

By incorporating patented Dual-Parabolic dome technology, the FP series provides a targeted hot-spot with definitive stereo separation. With sound waves projected into the dome, SoundTube's proprietary technology reflects sound waves from the mid and upper registers of the frequency spectrum directly beneath the dome.

SoundTube Entertainment and the MSE Audio Group constantly develop new technologies which enhance audio product performance. SoundTube Entertainment innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dome, enclosure and dispersion technologies. The MSE Audio Group actively defends its patents in order to protect SoundTube resellers and end-users.

#### **Technical Data and Specification Tools**

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data is available from SoundTube Entertainment or at www.soundtube.com.

Technical data and downloads include:

- EASE™ data 3-D polar plots.
- EASE<sup>™</sup> Address 2-D modeling for distributed systems
- AutoDesk® Revit® software
- Tech Sheets technical information and architectural specs for system engineers
- SoundTubeSPEC<sup>™</sup> Proprietary speaker placement software

## **Independent Data Acquisition and Verification**

All data for SoundTube speakers is independently collected from and verified by NWAA Labs (www.nwaalabs.com) using their proprietary MACH testing system. All data is collected and analyzed according to ASTM, ISO and AES standards using EASERA, TEF and MLSSA. Full balloon data including both phase and magnitude is compiled into a variety of formats including EASE 4.x. GLL and CLF.

### **Architectural Specifications**

The loudspeaker shall consist of two 25.4 mm (1") transducers with a voice coil diameter of 20.5 mm (0.81"). Sound waves from the transducers shall be reflected from a 781.1 mm (30.75") Dual-Parabolic sound dome.

Performance specifications of a typical unit shall be as follows: Usable frequency response shall extend from 130 Hz - 22 kHz ( $\pm 10$  dB). Measured sensitivity (2.84 V input, 1 M) shall be at least 75 dB stereo. The loudspeaker shall ship with a CAT V cable and four 16-gauge hardwire leads and be available in 8  $\Omega$  impedance mode (4  $\Omega$  if bridged/mono), or with an optional 25, 70.7, 100 V transformer and accompanying junction box. For the transformer accessory, the transformer unit and four-position tap switch will be supplied in a junction box.

The dome shall be constructed of custom-molded PETG. The driver shall have a high-impact polystyrene enclosure. The transducers shall have a concave aluminum diaphragm with high-impact polystyrene transducer protectors. The overall unit dimensions shall be no more than 781.1 mm (30.75") in diameter by 332.7 mm (13.1") in height and weigh no more than 4.1 kg (9 lbs).



Sound-Focusing Speaker

Installation for the speaker shall be by single-point hanging with the cable affixed to a mounting bushing and hanging bracket.

Optional modules include motion sensor (FP-Motion) and LED light (FP-Light). All optional FP modules require one AC-PS-1550 or AC-PS-1530 power supply to power one or any combination of modules.

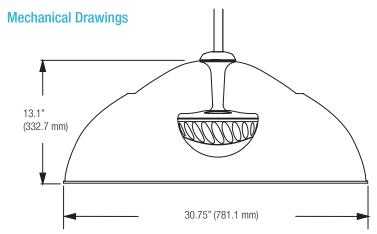
Optional electronics accessories include 10 and 20 W transformers with junction box for 25, 70.7, and 100 V applications (AC-JB10-XFMR, AC-JB20-XFMR) and an external amplification unit with power supply (SA202-RDT). Also available are wall brackets (AC-WB4) and rigid mount adapters (AC-FP6-RMA).

The system shall be the SoundTube FP6030-II for both low and high impedance applications.

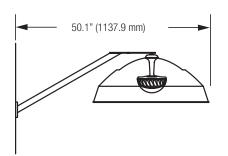
### SoundTube®

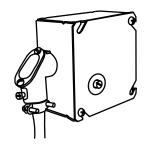
13720 W. 109th St. Lenexa, KS 66215 Phone: 913.663.5600 Fax: 913.663.3200 Toll Free: 855.663.5600 www.mseaudio.com

All SoundTube speakers come with a 5-year limited warranty and 3-year warranty on all electronics.

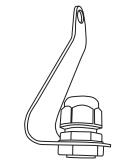


Optional Accessories









Included Accessories

AC-WB4

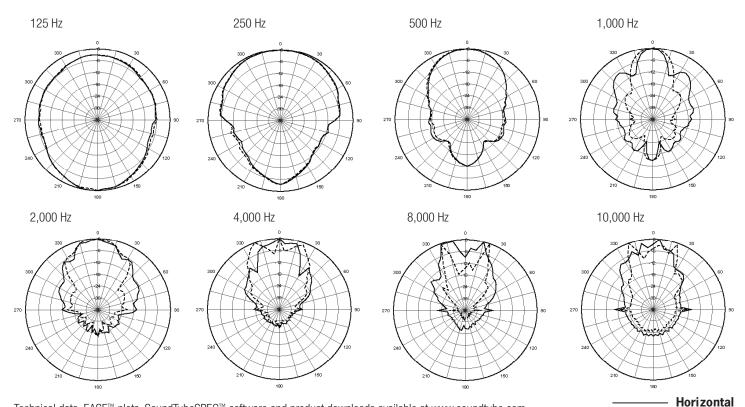
AC-JB10-XFMR & AC-JB20-XFMR (10 and 20 W transformers in junction boxes

AC-FP6-RMA

Cable hanging bracket and mounting bushing

**Vertical** 

**Plots** 

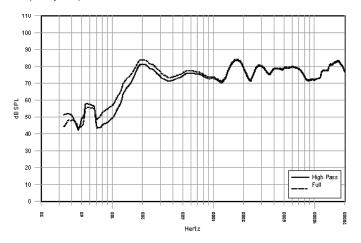




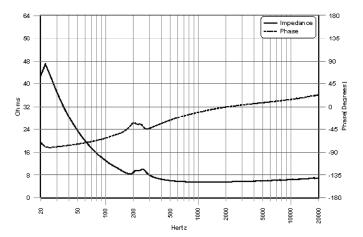
Sound-Focusing Speaker

## **Graphs**

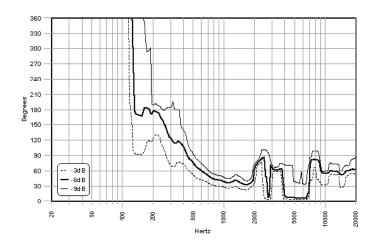
## Frequency Response



## Phase/Impedance Response



### Vertical Beamwidth



## Directivity Index (DI)

