

### HyperSound® - At A Glance

HyperSound® is an innovation in audio that generates an ultrasonic beam of sound. Similar to how a flashlight controls a ray of light, HyperSound® beams sound so only those in the targeted listening area can hear it. Slim speaker design makes integration into applications easy. Innovative audio technology makes it a uniquely effective solution for adding audio to even acoustically challenging environments.

HyperSound's narrow sound beam limits audio to a specific location, creating a precise audio zone. Clear, engaging audio enhances customer experiences by making marketing messages more immersive, informative, memorable, and attention-grabbing.



### Advantages & Benefits

- Specifically designed for applications within retail, trade show, kiosk and digital signage environments
- Small speaker size and slim design make integration into digital applications easy
- The ability to target each ear separately produces an immersive 3D listening experience
- Highly directional, precise sound beam creates audio zones and eliminates sound bleed

### Specifications

- Speaker dimensions: 12 1/2" x 6 3/8" x 2 1/8"
- Amplifier dimensions: 6 1/4" x 6 3/4" x 1 7/8"
- Speaker Colors: White & Black
- Power Supply: Input 100V-240V 50/60 Hz / Output 30V DC @1.5A
- Weight: 7 1/2" Pounds (Complete 2 Speaker System)
- Operating temperature: 10°C to 40°C (50°F to 104°F)
- Storage temperature: -20°C to 50°C (-4°F to 122°F)
- Operating humidity range: 0 to 95% (non-condensing)
- Storage humidity range: 0 to 95% (non-condensing)
- Max audio SPL output: (per emitter) 100dB @ 1.5kHz/2 meters
- Impedance: 10k Ohms
- Max input for max output: 160mVrms per channel
- Ultrasonic speaker type: HyperSound proprietary, patented and patent pending monolithic film transducer
- Frequency response: 300Hz to 18kHz



- Carrier frequency: Proprietary in the range of 40kHz
- Amplifier type: Customized Class D digital
- Amplifier power output: 15 Watts

### In The Box

- 1 (mono system) or 2 HyperSound Speakers (White or Black)
- Set of 7' Red & Black Speaker Cables With Banana Connectors
- 30 Volt DC External Regulated Power Supply
- 6 Foot 3.5mm Jack To Male RCA Audio Cable
- 6 Foot Male RCA To Male RCA Audio Cable

# 5. PRODUCT ILLUSTRATIONS

**6x10 Emitter**  
Full Assembly

SIZE	DWG. NO.	REV
<b>B</b>	13-0001-00-00	<b>A</b>

  

**Amplifier**  
Full Housing

SIZE	DWG. NO.	REV
<b>B</b>	13-0101-00-00	<b>A</b>

# 6. PRODUCT SPECIFICATIONS

## MODEL HSS-3000

### Electrical:

AC power cord length:  
1.5 meters (5 feet)  
Speaker cord length  
(14AWG):  
2 meters (6.5 feet)  
Universal power supply:  
Input: 100V-240V-50/60  
Hz  
Output: 30V DC @ 1.5  
amps

### Mechanical:

Speaker dimensions:  
12.5 x 6.375 x 2.125  
inches  
Amplifier box:  
6.25 x 6.75 x 1.875 inches  
Unit Weight:  
7.4 pounds (3.4 kg)  
(per complete system)

### Colors:

Black - Standard  
White - Standard

### Environmental:

Operating temperature:  
10°C to 40°C (50° to  
104°F)  
Storage temperature:  
-20°C to 50°C (-4°to  
122°F)  
Operating humidity range:  
0 to 95% (non-  
condensing)  
Storage humidity range:  
0 to 95% (non-  
condensing)

### System:

Max audio SPL output:  
(single speaker) 89dB  
@ 1.5 kHz/2 meters

### Audio:

Impedance: 10k Ohms  
Input connectors: 1  
RCA style connector  
(per channel)  
Speaker cable  
connectors:  
2 banana style  
connectors (per  
speaker)  
Powered subwoofer  
output:  
1 RCA style

### System configuration:

Stereo 2 channel or  
mono  
Max input for max  
output: 160 mVrms per  
channel  
Frequency response:  
300 Hz to 18kHz

### Ultrasonic and DSP

#### Processing:

Carrier frequency:  
Proprietary in range of  
40 kHz  
Modulation method:  
Proprietary and patent  
pending processing

#### Ultrasonic Speaker

##### Type:

HyperSound proprietary,  
patented and patent  
pending monolithic film  
transducer

#### Power Amplification:

Amplifier type:  
Customized Class D  
digital Amplifier power  
output: 15 watts

Specifications are subject  
to change without notice.