



HS-16

Featuring the Award Winning Hyperspike™ Technology

The HS-16 Acoustic Hailing Device (AHD) is one of the lightest and most compact of the Hyperspike™ devices. The emitter head alone measures only 17.25" across (small enough to fit through a submarine hatch), the HS-16 outputs 148 dB!

The HS-16 is ideal for small craft and vehicles. Its light weight, 49 lbs (22 kg), AC-DC power system, and compact size makes integration into existing smaller land, water, and airborne vehicles straight forward and easy. With an average of 150 and a peak power consumption of 250 watts, the HS-16 easily adapts to any platform.

The HS-16 provides a Force Multiplier by enabling one small craft to reach out significantly further (up to 1000m) than a bull horn with a nominal range of 50m. This in turn offers increased presence with fewer crew and less fuel consumption.

The HS-16 spans the human voice spectrum very well from 300 Hz to 12 kHz. With its high STI intelligibility rating, 0.91 (out of 1.0) and narrow 20° beam, the HS-16 delivers very clear authoritative messages to the intended area. At 148 dB, its warning tone is effective, while its 95 dB backplane is safe for those who operate the HS-16 and all those who serve around it.

The HS-16 is the clear choice for medium range Acoustic Hailing Devices!

Quick Points

- Lightweight at 49 lbs
- Loud, peak acoustic power = 148 dB
- Narrow beam, 20° conical @ 1 kHz
- The HS-16 provides a Force Multiplier
- Safe to operator, 95 dB at 1 meter behind device @ 1 kHz
- Portable, AC or DC power
- Clear, intelligibility STI rating is 0.91 (out of 1.0)
- Only 250 watts of peak power consumption

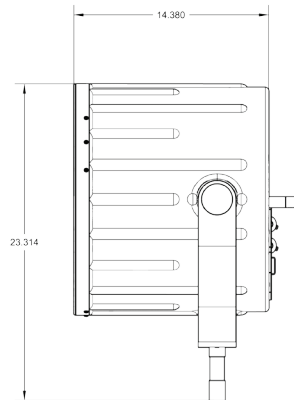
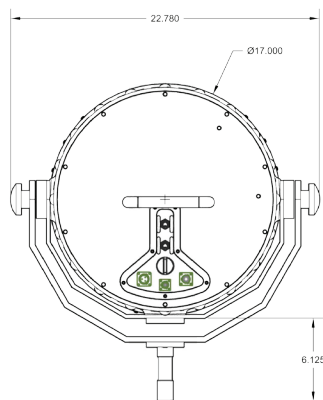


APPLICATIONS

HS-16

SPECIFICATIONS

Acoustic Specifications:	
Beam Width, Primary (coherent) Acoustic Field	+/- 10° (20° conical @ 2 kHz)
Frequency Range	275 Hz - 12 kHz
Max SPL	148 dB A-weighted 500 Hz-10 kHz bandwidth
	100 dB Typical SPL @ 500 meters*
Backplane Rear Lobe SPL**	95 dB @ 1 kHz
Usable Range*	Up to 1000 m
*Ambient Conditions Dependent **At Maximum Rated Output	
Power Requirements:	
Typical current draw in normal voice use	1.2 amps 110-120v
Typical current draw in max tone use	2.0 amps 110-120v
Unit power	100-250VAC/50-60Hz
Environmental:	
Random Vibration	MIL-STD-810F, Method 514.4
Shipboard Vibration	MIL-STD-167-1A
Shipboard Shock	MIL-S-910D, Class I
SRS Shock	MIL-STD-810F, Method 516.5 (Functional Shock)
High/Low Temperature Operation	MIL-STD-810F, Method 501.4 & 502.4
Rain	MIL-STD-810F, Method 506.4, Blowing Rain
Operating Humidity	MIL-STD-810F, Method 507.4
Salt Fog	MIL-STD-810F, Method 509.4
Safety:	
Standard	MIL-STD-1474D
Electromagnetic Compatibility:	
Standard	FCC Part 15 Class A Radiated and Conducted Emissions
Dimensions	
Emitter Head Dimensions	22.78" W x 23.31" H x 14.38" D (0.58 m x 0.59 m x 0.37 m)
Unit Weight	
Emitter head & electronics	49 lbs (22.2 kg)



4578 East Park 30 Drive Columbia City, Indiana 46725-8869 USA
 Tel: +1 260-248-3500 Fax: +1 260-248-3510
www.ultra-hyperspike.com