



HSS 450

Direct Audio Sound System

product information

Just imagine ... The broadcast of your audio message directly to your intended audience and only where it's intended to go ... That's the HSS 450, the pioneering sound-generation technology, a revolutionary new concept in sound reproduction.

For a long time, RSF collaborate with the HSS American firm to develop the direct audio sound system to improve its use in museum applications.

The directionality of the HSS system is unsurpassed, with the added benefit of long projection distances and retention of intelligibility.



Avoid noise pollution

Able to focus the sound diffusion only where you want it. Directivity of 3°.

Outstanding flexibility

The new HSS450 is small and lightweight. It can be used directly or not : directional to the target listeners or reflected off an object. Unlike other technologies, it's a fully self-contained digital processing, amplification and emitter device. There's no bulky housing, cabinet, vibration or back wave emissions to consider.

Simple to use and operate

The HSS450 can be directly connected to any audio source. No power amplifier is necessary.

Long projection distance

The audio level decrease slowly with the distance. It's particular to the HSS technology. The sound diffusion is audible and intelligible about ten meters long !

Surprise effect !

Placed in a passage, a surprised effect or an attraction effect is guaranteed !

Awarded technology

Award of the "Label de l'innovation muséographique" at the SITEM (Salon International des Techniques Muséographiques) in Paris in 2003.

RSF - EXTREME Products

Reliability... EXTREME

- Designed for 365/7/24 time operation.
- Fully solid state with no moving parts.

Service... EXTREME

- 2 or 3-years swap warranty within 24 hours.

References... EXTREME

Our customers range from the smallest regional museums to the largest attraction parks. Some of our important references: Disneyland Paris (FR), 'Futuroscope de Poitiers' (FR), the City of Sciences of Paris (FR), British Museum of London (the U.K.), Stonehenge (the U.K.)...



Technical specifications

Audio

Frequency response500Hz - 16 KHz
Max. input tension for max. output1.0V p-p each channel at 1KHz

Buttons

EqualizerSwitch 3 positions

Connectors

Audio input2 RCA/Cinch

Indicators

Signal/saturation presence indicator

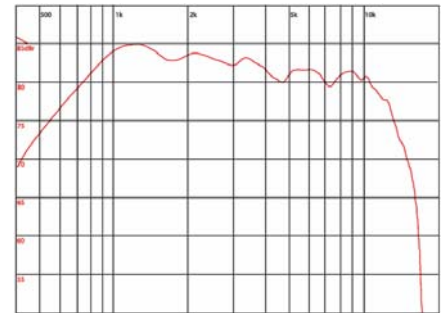
AlimentationExternal tension transformer 48VDC

Maximal consumption100 W max

EnclosureBlack ABS plastic

Dimensions (enclosure)311,1 x 88,1 x 151,4 mm (LxPxH)

Weight1,0 kg



Technologie HSS® (HyperSonic Sound)

A revolutionary new concept in sound reproduction—a paradigm shift in technology application. HyperSonic Sound technology projects a column of modulated ultrasonic frequencies into the air. These ultrasonic frequencies are inaudible by themselves. However, the interaction of the air and modulated ultrasonic frequencies creates audible sounds that can be heard along a column. This audible acoustical sound wave is caused when the air down-converts the ultrasonic frequencies to the lower frequency spectrum that humans can hear. Since the audible sound is produced inside the column of ultrasonic frequencies (which is highly directional), an important by-product of this is that the audible sound can be tightly focused in any direction within the listening environment. This provides outstanding flexibility in placing the sound exactly where you want it and substantially eliminating sound in all other areas. By eliminating the bulky magnets and moving coil found in a conventional speaker, the HSS system has other advantages. The system is small and lightweight; its thin lines make it easy to mount. Positioning is precise, with no bulky housing, cabinet, vibration, or back wave emissions to consider. The directionality of the HSS system is unsurpassed, with the added benefit of long projection distances and retention of intelligibility. Getting sound right where it is wanted eliminates having to use high sound pressure levels to get sound to “carry” to distant points.

Since the HSS directed audio system delivers sound precisely, less volume is necessary to project sound where it is needed. An audio signal is sent to an electronic signal processor circuit where equalization, dynamic range control, distortion control, and precise modulation are performed to produce a composite ultrasonic wave form. The patent pending ModAmp™ technology is used to produce the compact and lightweight Modulation/Amplifier portions of HSS. This amplified ultrasonic signal is sent to the emitter that produces a column of ultrasonic sound that is subsequently converted to highly directional audible sound within the air column. Since ultrasound is highly directional, the audio sound placement is precise. Directional sound is pointed to the target listener(s) or reflected off an object to create a Virtual Speaker that is some distance from the HSS unit.

Accessories and options

HD-15Mural support with kneecap