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# WOHLER HRS-1S

Ultra Compact, Full Range, Mono Self-Powered Speaker System - 1 Stereo Input



January 19, 2004

## Features:

Incredibly Compact, Fits almost Anywhere, 1/2 rack wide (8.5"), 1U high

Premium Quality Subwoofer & Midrange Speaker

High Quality AMP Series Internal Amplifier

2 Balanced Analog Inputs with Loop-Through (1 Stereo)

95dB SPL at 2 feet (0.6m)

Premium Quality Drivers & Power Amplifiers

Extended Frequency Response and Low Distortion

Focused Sound, Reduces Adjacent Bay Crosstalk

Electronic Cancellation of Bass Frequencies provides Audible Indication of Phase/Polarity Problems

Thorough Magnetic Shielding for Placement next to Sensitive Equipment

Headphone Jack - Use Mutes Speakers

Quick and Simple Installation

The HRS-1S provides self-powered, full-fidelity audio monitoring of 2 analog channels in the smallest space possible. This unit contains two high performance transducers driven by two power amplifiers: one amplifier/driver combination handles midrange and high frequency information in, while the second handles summed low frequency information below the 500 Hz crossover point.

The unique design allows this unit to fit almost anywhere, and provides optimally focused sound for operators in an Ultra Near Field (1 to 3 ft.) working environment. This provides for a higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk.

Extended HF response reveals potential problems with audio whine or hiss and electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds. A headphone jack is provided on the front panel, usage automatically mutes the speakers. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

Built and rigorously tested in the USA, the HRS-1S is backed by a strong warranty and a "Satisfaction Guaranteed" return policy.

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**Wohler**

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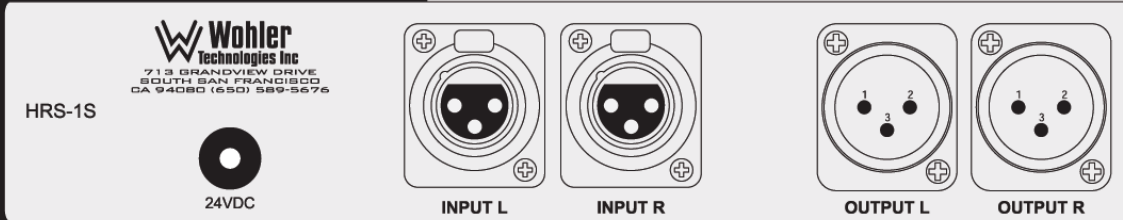
Alarm Systems

Video Monitoring

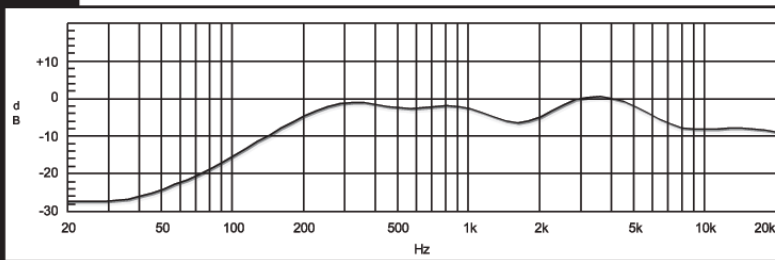
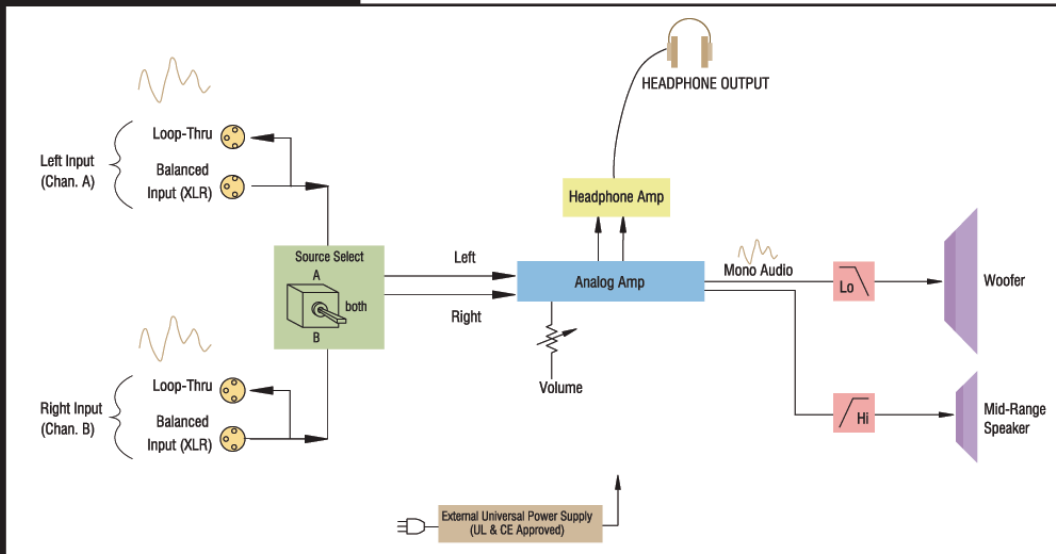
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## Rear Panel:



## System Diagram:



## Specifications:

Input	2 balanced analog - XLR inputs
Output	loop-through of balanced analog inputs - XLR
Analog input impedance	>40 kOhms balanced 10 kOhms unbalanced
Peak acoustic output @ 2 feet	95dB SPL
Frequency response (1/6 octave)	150Hz - 20kHz (±5dB) (-10dB @ 50Hz, 22kHz)
Power output	RMS each side (2 Ohms) - 5W, 7W peak RMS dual WOOFER (4 Ohms) - 11W, 16W peak
Electrical Distortion	0.15% at any level below limit threshold
Acoustic Distortion	0.8% or less worst case frequencies above 180Hz including cabinet resonance, typically < 2%
Hum and noise	better than -68dB below full output
Magnetic shielding	<0.5 gauss any adjacent surface
Power consumption (AVG. MAX.)	15W
Dimensions (HxWxD)	1.75 x 8.5 x 7.5" (44.5 x 216 x 191mm)
Weight (approx.)	2lbs (0.91kg)
Power supply	External 100 to 240VAC, 50/60Hz universal input, CE and UL approved

All specifications are subject to improvement

