

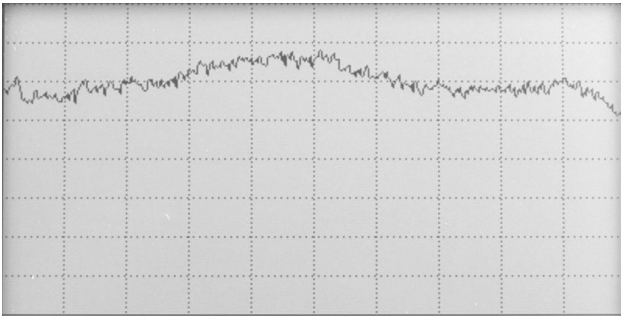
# Handheld Ultrasonic Spectrum Analyser HUSA1A

A highly sensitive instrument for the detection and analysis of airborne ultrasonic signals.

The HUSA1A combines a low-noise broadband ultrasonic transducer with a hand-held spectrum analyser.

As well as having high-sensitivity, thanks to the transducer's narrow beam pattern, signal sources can be easily and accurately located using this highly portable instrument.

The transducer used in the HUSA1A covers the frequency range of 10kHz to 110kHz with a typical response shown below.



**Typical Frequency Response  
(10kHz to 110kHz, 10dB/div)**

The HUSA1A is extremely sensitive and the overall system noise-floor at 50kHz is only 5dB SPL. This means the instrument can reliably detect signals as weak as 10dB SPL.

## Features

- ◆ High-sensitivity (5dB SPL Noise <sup>1</sup>)
- ◆ Broad Response 10kHz to 110kHz
- ◆ High Dynamic Range (80dB)
- ◆ Average and Peak-Hold Functions
- ◆ Narrow Beam for Accurate Location
- ◆ Backlit Graphic Display
- ◆ Compact Size
- ◆ Low Cost
- ◆ Powered by 2 x AA

## Applications

- ◆ Machine Noise Analysis
- ◆ Test and Measurement
- ◆ Specialist Ultrasonic Applications



## Specifications

Unless Otherwise Stated: Battery = 2 x Energizer E91 AA Alkaline, Backlight (BL) = Low, Temp = 20°C, Test Freq = 50kHz.

Parameter	Min	Typ	Max	Units
Detectable Frequency Range (Fixed Span)	10		110	kHz
Dynamic Range		80		dB
Noise Floor <sup>1,2</sup>		5		dB SPL
Battery Life, BL=Low		30		Hours
Battery Life, BL=Off		60		Hours

Note. Specifications are subject to change without notice.

1. Noise Floor calculated at Maximum Sensitivity of 50kHz

2. Minimum Signal Duration for Guaranteed Detection = 50ms.