

HNR Hydrophones

The HNR Series needle hydrophones are excellent sensors for laboratory use in high intensity ultrasonic field mapping, with pinpoint access and good spatial resolution. Due to their high sensitivity these hydrophones are commonly operated without amplification.

Features

- Small size
- High sensitivity
- Rugged
- Low cost

Technical Specifications

	HNR-0500	HNR-1000
Frequency range ($\pm 6\text{dB}$)	0.25 - 10 MHz	
* EOC Nominal Sensitivity [nV/Pa]	250	450
Acceptance angle (-6dB at 5 MHz)	30°	15°
Capacitance	200 pF	
Max. Operating Temperature	50°C	

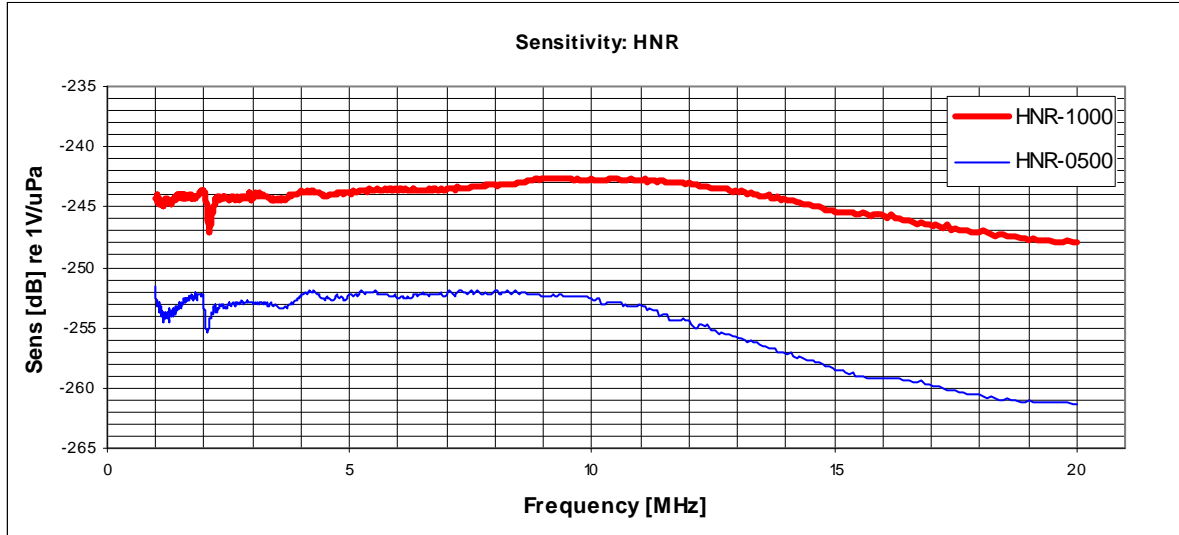
* EOC ("end of cable") is the open-circuit output sensitivity of the hydrophone. Calibration with an amplifier can be determined from the gain and input impedance of the amplifier.

Provided with traceable calibration 1-20 MHz at 50 KHz intervals. For other calibrations available visit our web site.



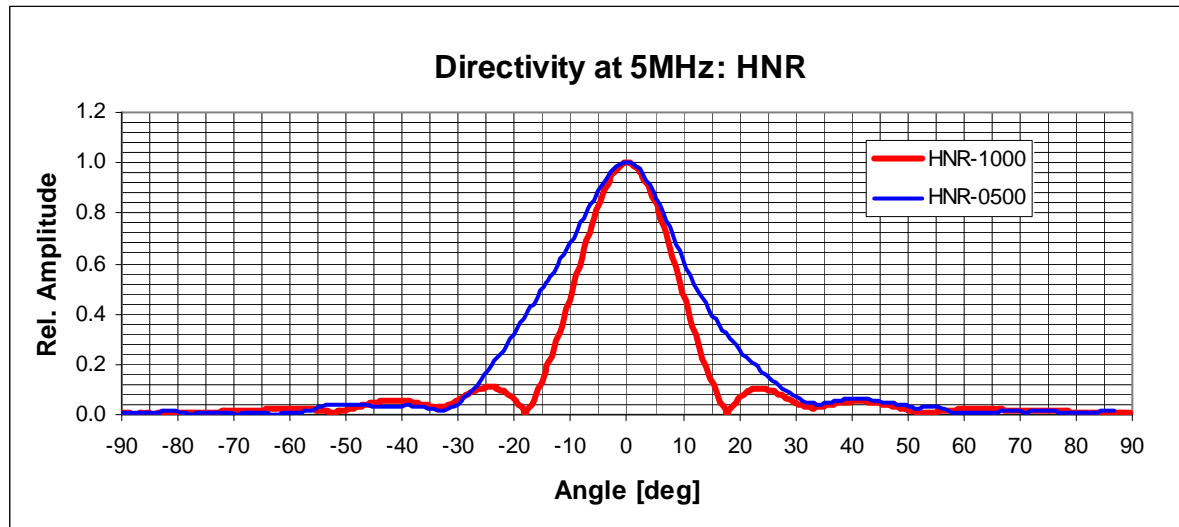
HNR Hydrophone

Typical Sensitivity Plot



Note that intrinsic to this design is a resonance (notch) at 2 MHz typical of this design, whose amplitude may vary.

Typical Directivity Plot



Mechanical Specifications

