

# Eta100 L Ultra

## Acoustic

Transducer type	Membrane-free, optical hydrophone
Frequency range	50 kHz - 10 MHz
Dynamic range	20 mPa - 1 MPa (pressure amplitude)
Self-noise	20 mPa (BW: 1 Hz, measured @ 100 kHz)
Self-noise, full bandwidth	90 Pa
Sensitivity	12 mV/kPa (0 dB gain, 50 Ω)

## General

Maximum output voltage	±15V (high impedance), ± 7.5V (50 Ω)
Output impedance	50 Ω
Output connector	BNC
Size of sensor head	diameter: 6.5 mm; length: 35.4 mm
Weight of sensor head	ca. 12 g
Length of fiber-optic cable	5 m (other upon request)
Size of signal conditioning unit	220 mm x 334 mm; height: 93 mm
Weight of signal conditioning unit	8 kg
Power supply	120/230V ± 5 %; 50/60 Hz
Power consumption	< 50 W

## Environmental

Storage temperature	-20°C to 80°C (0°F to 175°F)
Operating temperature of sensor head	5°C to 100°C (40°F to 210°F)
Operating temperature of signal conditioning unit	0°C to 50°C (30°F to 120°F)
Environmental humidity	non-condensing