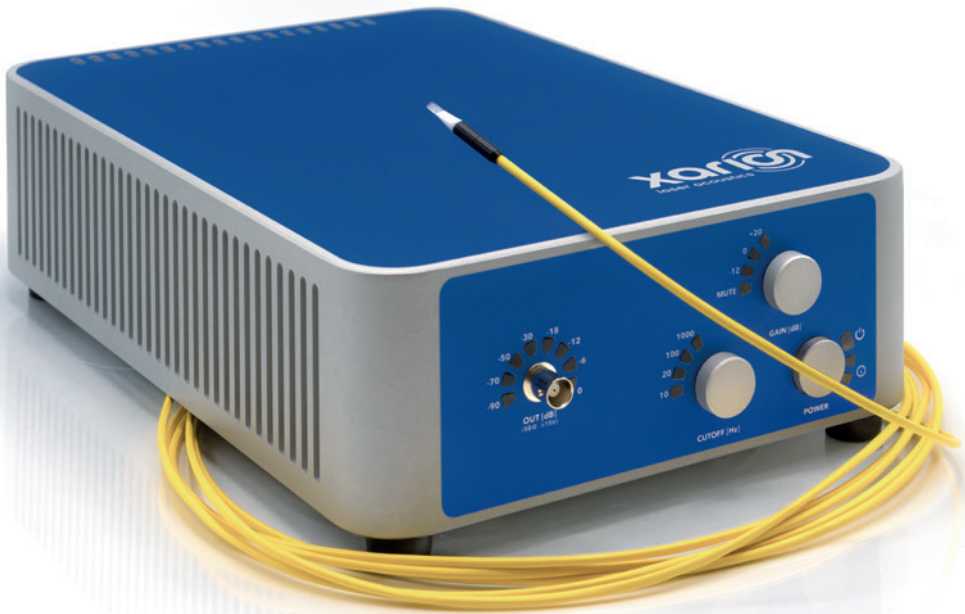


Eta 100 Ultra

optical microphone



moving sounds without moving parts

xarion
laser acoustics

Acoustic

Transducer type	Membrane-free, optical
Frequency range	10 Hz - 1 MHz
Dynamic range	100 dB
Self-noise	1.5 mPa (BW: 1 Hz, measured @ 1 kHz)
Self-noise, full bandwidth	1.5 Pa
Max. sound pressure for THD <3%	12 kPa
Max. sound pressure level for THD <3%	176 dB rel. 20 μ Pa
Damage threshold	>194 dB rel. 20 μ Pa
Sensitivity	0.35 mV/Pa @ 1 kHz (0 dB gain, 50 Ohm)
Polar pattern	Omnidirectional
Sound field optimization	Free field and pressure field
Calibration	Yes, standard calibrators (with adapter)

General

Sensor output	± 15 V (high impedance), ± 7.5 V (50 Ohm)
Sensor output voltage connector	BNC
Size of sensor head	diameter: 5 mm; length: 33 mm
Weight of sensor head	10 g
Fiber cable length	5 m (other upon request)
Size of control unit	220 mm x 330 mm; height: 95 mm
Weight of control unit	8 kg
Power supply (signal conditioning unit)	230 V \pm 10%; 50 / 60 Hz
Power consumption	< 50 W
Operating temperature: sensor head	5 °C to 60 °C (40 F to 140 F)