

Eta100 L Ultra

上海昊量光电设备有限公司

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Acoustic

Transducer type	Membrane-free, optical hydrophone
Frequency range	50 kHz - 20 MHz
Dynamic range	20 mPa - 1 MPa (pressure amplitude)
Self-noise, BW 1 Hz @ 100 kHz	20 mPa
Self-noise, full bandwidth	90 Pa
Sensitivity	16 mV/kPa

General

Sensor output voltage	$\pm 15\text{V}$ (high impedance), $\pm 7.5\text{V}$ (50 Ω)
Sensor output voltage connector (signal conditioning unit)	BNC
Sensor output impedance	50 Ω
Size of sensor head	diameter: 6,5 mm; length: 31 mm
Weight of sensor head	12 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)	120 / 230Vac $\pm 5\%$, 50 / 60 Hz
Power consumption	< 50W

Environmental

Storage temperature	0°C to 60°C (30F to 140F)
Operating temperature: sensor head	5°C to 60°C (40F to 140F)
Operating temperature: control unit	15°C to 30°C (60F to 85F)
Environmental humidity	non condensing

Eta250 L Ultra

Acoustic

Transducer type	Membrane-free, optical hydrophone
Frequency range	10 Hz - 2,5 MHz
Dynamic range	1 mPa - 10 kPa (pressure amplitude)
Self-noise, BW 1 Hz @ 100 kHz	1 mPa
Self-noise, full bandwidth	1 Pa
Sensitivity	3,4 mV/Pa

General

Sensor output voltage	±15V (high impedance), ± 7.5V (50 Ω)
Sensor output voltage connector (signal conditioning unit)	BNC
Sensor output impedance	50 Ω
Size of sensor head	diameter: 6,5 mm; length: 34 mm
Weight of sensor head	12 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)	120 / 230Vac ±5%, 50 / 60 Hz
Power consumption	< 50W

Environmental

Storage temperature	0°C to 60°C (30F to 140F)
Operating temperature: sensor head	5°C to 60°C (40F to 140F)
Operating temperature: control unit	15°C to 30°C (60F to 85F)
Environmental humidity	non condensing