



Sound Metrics Corp.

Using sound to make sound measurements

Specifications US3000

DIDSON UniBody, Standard Frequencies, Depth Rated 3000 meters

Detection Mode

Operating Frequency	1.1 MHz
Beamwidth (two-way)	0.4° H by 14° V
Number of beams	48
Extended Range settings	
window start	0.83 m to 25.8 m in 0.83 m intervals
window length	5 m, 10 m, 20 m, 40 m
range bin size relative to window length:	10 mm, 20 mm, 40 mm, 80 mm
pulse length relative to window length:	18 μs, 36 μs, 72 μs, 144 μs

Identification Mode

Operating Frequency	1.8 MHz
Beamwidth (two-way)	0.3° H by 14° V
Number of beams	96
Extended Range settings	
start range	0.42m to 12.92 in 0.42m steps
window length	1.25 m, 2.5 m, 5 m, 10 m
range bin size relative to window length:	2.5 mm, 5 mm, 10 mm, 20 mm
pulse length relative to window length:	4.5 μs, 9 μs, 18 μs, 36 μs

Both Modes

Max frame rate (window length dependent)	4-21 frames/s
Field-of-view	29°
Remote Focus	1 m to max range
Power Consumption	30 Watts typical
Weight in Air	13.9 kg (30.5 lb.)
Weight in Water	6.1 kg neg. (13.4 lb.)
Dimensions	32.5 cm by 18.36 cm by 22.4cm
Depth rating	3000 m (10,000 feet)
Control	Ethernet
Display Up-link	Ethernet or NTSC Video
Maximum cable length (100/10BaseT)	61 m (200 feet)
Maximum cable length (Patton Extender)	1220 m (4000 feet) (with local power)
Maximum cable length (fiber optics)	kilometers
Topside Requirements:	Windows (95, 98, Me, NT, 2000, XP), Ethernet card, Video monitor (optional)



Sound Metrics Corp.

Using sound to make sound measurements

Specifications UL3000

DIDSON-LR UniBody, Long-Range Frequencies, Depth Rated 3000 meters

Detection Mode (LF)

Operating Frequency	0.700 MHz
Beamwidth (two-way)	0.8° H by 14° V
Number of beams	48

Extended Range settings

window start	0.83 m to 25.5 m in 0.83 m intervals
window length	10 m, 20 m, 40 m, 80 m
range bin size relative to window length:	19 mm, 39 mm, 78 mm, 156 mm
pulse length relative to window length:	23 μ s, 46 μ s, 92 μ s, 184 μ s

Identification Mode (HF)

Operating Frequency	1.2 MHz
Beamwidth (two-way)	0.5° H by 14° V
Number of beams	48
Extended Range settings	
window start	0.42 to 12.92 in 0.42 intervals
window length	2.5 m, 5 m, 10 m, 20 m
Range bin size relative to window length:	4.9 mm, 9.8 mm, 19.5 mm, 39 mm
Pulse Length relative to window length:	6.7 μ s, 13 μ s, 26 μ s, 54 μ s

Both Modes

Max frame rate (window length dependent)	2-10 frames/s
Field-of-view	29°
Remote Focus	1 m to max range
Power Consumption	30 Watts typical
Weight in Air	13.9 kg (30.5 lb.)
Weight in Water	6.1 kg neg. (13.4 lb.)
Dimensions	32.5 cm by 18.36 cm by 22.4cm
Depth rating	3000 m (10,000 feet)
Control	Ethernet
Display Up-link	Ethernet or NTSC Video
Maximum cable length (100/10BaseT)	61 m (200 feet)
Maximum cable length (Patton Extender)	1220 m (4000 feet) (with local power)
Maximum cable length (fiber optics)	kilometers
Topside Requirements:	Windows (95, 98, Me, NT, 2000, XP), Ethernet card, Video monitor (optional)