



# Sound Metrics Corp.

Using sound to make sound measurements

## Specifications US300

DIDSON UniBody Standard Frequencies Depth rated 300 meters

### Detection Mode

Operating Frequency	1.1 MHz
Beamwidth (two-way)	0.4° H by 14° V
Number of beams	48
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
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	7.5 kg (16.5 lb.)
Weight in Sea Water	0.7 kg neg. (1.5 lb.)
Dimensions	31.0 cm by 20.6 cm by 17.1 cm
Depth rating	300 m (1000 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)