



# Sound Metrics Corp.

Using sound to make sound measurements

## Specifications SBS300

DIDSON Split Body 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
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 ms, 36 ms, 72 ms, 144 ms

### *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 ms, 9 ms, 18 ms, 36 ms

### *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   Water	
Head	5.0 kg (10.9 lbs)   xxx
Electronics (no housing)	1.1 kg (2.4 lbs)   xxx
Electronics and Housing	x   x
Dimensions	
Head	40.0 cm long x 17.1 cm wide x 9.3 cm high
Electronics (no housing)	22.9 cm long x 12.4 cm wide x 7.0 cm high
Electronics Housing	14 cm dia x 29.2 cm long
Cables between head and electronics	Two — Each 1.1 cm dia up to 2.4 m long 7.6 cm Turn radius
Depth rating	300 m (1000 feet)
Control	Ethernet
Display Up-link	Ethernet or NTSC Video
Maximum cable length (100/10BaseT)	90 m (300 feet)
Maximum cable length (Patton Extender)	1220 m (4000 feet) (with local power)
Maximum cable length (fiber optics)	kilometers
Topside Requirements:	Windows (XP, Vista) Ethernet card, Video monitor (optional)