



ARIS Defender 1800 Specifications

Detection Mode

Operating Frequency	1.1 MHz
Beamwidth (two-way)	0.5° H by 14° V
Source Level (average)	204 dB re 1 μ Pa at 1 m
Nominal Effective Range	35m @ 15°C water temperature

Identification Mode

Operating Frequency	1.8 MHz
Beamwidth (two-way)	0.3° H by 14° V
Source Level (average)	195 dB re 1 μ Pa at 1 m
Nominal Effective Range	15m @ 15°C water temperature

Both Modes

Number of beams	96
Beam Spacing	0.3° nominal
Field-of-View	28° horizontal x 14° vertical
Max frame rate	3.5-12 frames/sec
Minimum Range Start	0.7m
Downrange Resolution	3mm to 23mm
Transmit Pulse Length	4 μ s to 40 μ s
Remote Focus	0.7m to infinity
Power Consumption	20 Watts typical
Weight in Air	12.36 kg (27.25 lb) <i>As Explorer</i> 6.11 kg (13.44 lb)
Weight in Water	Neutral 1.89 kg (4.16 lb)
Dimensions	47cm x 24cm x 22cm
Depth rating	100m
Data Comm Link	HomePlug
Maximum cable length	150m (500 ft)

Data Power Pack

28.8V Li-ion battery, up to 4-hour operation
64 Gb data storage, minimum 14-hour recording

Underwater Head Mounted Display

800 x 600 SVGA

Minimum PC Requirements:

Windows 7 SP1 or Higher
100BaseT Wired Ethernet (USB Adapter OK)

Recommended PC Configuration:

DirectX 11 compatible graphics
Multi-Core CPU
8 Gb RAM
512 Mb Video RAM
64 Gb Available Hard Disk Space