



ARIS Defender 3000 Specifications

Detection Mode

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

Identification Mode

Operating Frequency	3.0 MHz
Beamwidth (two-way)	0.2° H by 15° V
Source Level (average)	< 195 dB re 1 μ Pa at 1 m
Nominal Effective Range	5m @ 15°C water temperature

Both Modes

Number of beams	128
Beam Spacing	0.25° nominal
Field-of-View	30° horizontal x 15° vertical
Max frame rate	4-12 frames/sec
Minimum Range Start	0.7m
Downrange Resolution	3mm to 19mm
Transmit Pulse Length	4 μ s to 24 μ s
Remote Focus	0.7m to infinity
Power Consumption	20 Watts typical
Weight in Air	11 kg (24 lb) <i>As Explorer</i> 5.38 kg (11.84 lb)
Weight in Water	Neutral 1.70 kg (3.74 lb)
Dimensions	43cm 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