

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 22cm x 24cm
Depth rating	100m <i>As Explorer</i> 300m (1000 ft)

Data Comm Link	HomePlug
Maximum cable length	150m (500 ft)

<i>Data Power Pack</i>	28.8V Li-ion battery, up to 4-hour operation
	64 Gb data storage, minimum 14-hour recording
<i>Underwater Head Mounted Display</i>	800 x 600 SVGA

Data Comm Link	HomePlug	100BaseT Ethernet
Maximum standard cable length	150m (500 ft)	3m (10 ft) <i>ROV Integration Whip</i>

Minimum PC Requirements:	Windows 10 or Higher
	100BaseT Wired Ethernet (USB Adapter OK)
Recommended PC Configuration:	DirectX 11 compatible graphics
	Multi-Core CPU
	16 GB RAM
	1 GB Video RAM

