



ARIS Explorer 1800 Specifications

Detection Mode

Operating Frequency	1.1 MHz
Beamwidth (two-way)	0.5° H by 14° V
Source Level (average)	~200-206 dB re 1 μ Pa at 1 m (<i>TBD</i>)
Nominal Effective Range	35m

Identification Mode

Operating Frequency	1.8 MHz
Beamwidth (two-way)	0.3° H by 14° V
Source Level (average)	~200-206 dB re 1 μ Pa at 1 m (<i>TBD</i>)
Nominal Effective Range	15m

Both Modes

Number of beams	96 or 48
Beam Spacing	0.3° nominal
Horizontal Field-of-View	28°
Max frame rate (96 beams)	3-15 frames/s (6-15 frames/sec w/48 beams)
Minimum Range Start	0.7m
Downrange Resolution	3mm to 10cm
Transmit Pulse Length	4 μ s to 100 μ s
Remote Focus	0.7m to max range
Power Consumption	15 Watts typical
Weight in Air	5.5 kg (12.1 lb)
Weight in Water	<i>TBD</i> , ~1.4kg (3 lb)
Dimensions	31cm x 17cm x 14cm
Depth rating	300m
Data Comm Link	100BaseT Ethernet
Maximum cable length (Ethernet)	90m (300 feet)

Minimum PC Requirements ¹ :	Windows 7 32-bit SP1 DirectX 10 compatible graphics 1.8 GHz dual-core CPU 2 Gb RAM 256 Mb Video RAM 20 Gb free disk space (for recording)
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Recommended PC Configuration ² :	Windows 7 64-bit Professional SP1 DirectX 11 compatible graphics 2.2 GHz quad-core CPU 4 Gb RAM 512 Gb Video RAM 200 Gb free disk space (for recording)
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Recommended PC Upgrades ³ :	SSD C:\ Drive (Solid State Disk) 8 Gb RAM 1 Gb Video RAM
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¹For good performance using ARIScope software, and limited functionality for future image processing

²For great performance using ARIScope software, and good performance on future image processing

³For great performance using all present and planned ARIS software