



## ARIS Explorer 1200 Specifications

### **Detection Mode**

Operating Frequency	0.7 MHz
Beamwidth (two-way)	0.8° H by 14° V
Source Level (average)	~206-212 dB re 1 $\mu$ Pa at 1 m (TBD)
Nominal Effective Range	80m

### **Identification Mode**

Operating Frequency	1.2 MHz
Beamwidth (two-way)	0.5° H by 14° V
Source Level (average)	~206-212 dB re 1 $\mu$ Pa at 1 m (TBD)
Nominal Effective Range	25m

### **Both Modes**

Number of beams	48
Beam Spacing	0.3° nominal
Horizontal Field-of-View	28°
Max frame rate (range dependent)	2.5-15 frames/s
Minimum Range Start	0.7m
Downrange Resolution	3mm to 10cm
Transmit Pulse Length	4 $\mu$ s to 100 $\mu$ 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	TBD, ~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 <sup>1</sup> :	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)
--	--

Recommended PC Configuration <sup>2</sup> :	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)
---	--

Recommended PC Upgrades <sup>3</sup> :	SSD C:\ Drive (Solid State Disk) 8 Gb RAM 1 Gb Video RAM
--	--

<sup>1</sup>For good performance using ARIScope software, and limited functionality for future image processing

<sup>2</sup>For great performance using ARIScope software, and good performance on future image processing

<sup>3</sup>For great performance using all present and planned ARIS software