



ARIS Defender 1800

See What Others Can't

The Ultimate in Adaptability — Two Sonars in One!

The ARIS Defender 1800 makes it easy to capture quality video-like images with simple one-handed operation in the most turbid waters. This diver-held sonar is ideal for detecting and inspecting underwater structures and targets from up to 35 meters.

A mask-mounted color display updates up to 12 frames per second and makes real-time work simple and accurate. Battery life lasts up to four hours and powers fully autonomous operation; the optional Supervisory Kit allows simultaneous topside viewing and power input for continuous duty.

Remove the flotation shell and handle to convert the ARIS Defender 1800 into a 300m depth rated ARIS Explorer 1800, suitable for deployment on ROVs, AUVs, boats, or fixed structures - combining two sonars in one versatile product!



ARIS Defender 1800

APPLICATIONS

- Operations & Divers Monitoring
- Equipment & Tool Replacement
- Environmental Monitoring
- Port & Harbor Security
- Construction Monitoring
- Target Identification & Detection
- Underwater Inspection
- Hull & Berth Inspection
- Search & Recovery

IDENTIFICATION
FREQUENCY
1.8 MHz
15 m Range

DETECTION
FREQUENCY
1.1 MHz
35 m Range

DEPTH
RATING
100 m



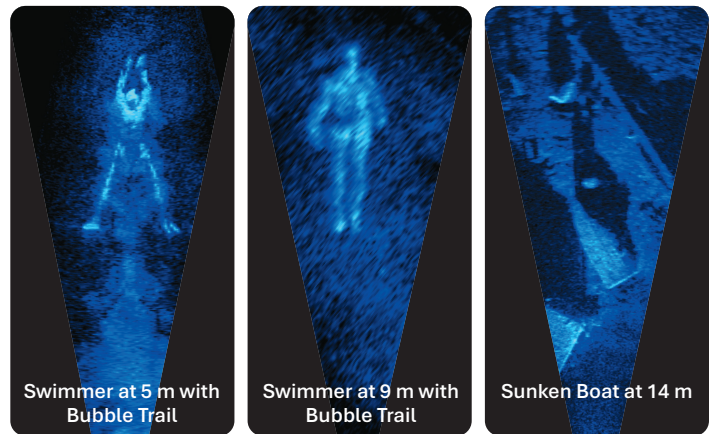
ARIS Defender 1800

TECHNICAL SPECIFICATIONS

Dimensions	47 x 22 x 24 cm
Weight in Air	12.36 kg
Weight in Water	Neutral
Number of Transducer Beams	96 Beams
Beam Width	0.3°
Field of View	30° x 15°
Frame Rate	Up to 12 Frames / Second
Range Resolution	Down to 3 mm
Power Consumption	20 W Typical
Cable Length	Up to 150 m
Data Power Packs:	
Battery	28.8 VDC Li-Ion
Endurance	Up to 4-Hour Operation
Storage	64 GB (14 Hours Min)



Remove the Floatation Shell from the ARIS Defender 1800 to convert it into a field-ready 300 m depth-rated ARIS Explorer 1800.



FEATURES

- Adaptable 2-in-1 Convertibility
- Compact & Lightweight Diver-Held Sonar
- High-Definition Imagery
- Capable of Close Range Imaging
- Dual Frequency Operation: 1.8 MHz & 1.1 MHz with Dynamic Focus
- Ethernet Interface
- Windows™ Based Software

Founded in 2002, Sound Metrics is the first company to introduce a high-frequency imaging sonar to the commercial market. The DIDSON brand of imaging sonars set a new standard for excellence in underwater vision in black and turbid waters.

The company later launched the next generation of DIDSON with the release of ARIS high-resolution and high definition imaging sonars. With the ARIS product range, Sound Metrics once again sets a new standard for imaging at extremely close ranges in all types of water.

Sound Metrics strives to offer the most advanced technology along with the best support and most innovative solutions for your applications.