

# ARC Hunter

Towed Side Scan Sonar

Marine Sonic Technology



## Sea Scan® ARC Hunter

150kHz – 1800kHz | Ultra-long Range | 300m Towed Depth

The ARC Hunter Product Line of Heavy-Duty Towed Systems is designed to address the demanding requirements of survey operations. Hunter's low frequency Adaptive CHIRP Technology enables industry leading range performance, while maintaining Marine Sonic's high-resolution image quality. The adaptive CHIRP technology provides the highest imaging quality possible from a sidescan sonar and supports ranges up to 60% greater than non-CHIRP systems. Developed around this technology, the Hunter system achieves low frequency ranges at 500m per side under real-world conditions.



The heavy and highly-stable Hunter tow body supports various towing configurations and is available in a rugged stainless-steel, or aluminum configuration. Every Hunter System includes a portable watertight topside processor, ruggedized laptop and a customer defined tow cable length up to 500m. Customer-specific lightweight Kevlar or armored tow cables as well as heavy and light duty winch options provide additional flexibility for different applications and simplified cable management on variable sized platforms. Should your mission require specialized sonar equipment, Marine Sonic offers customized tow body and sonar designs, platform integration services and operator training.

Hunter Towed Systems come standard with a single 150kHz or dual 300kHz / 900kHz frequency module. Dual frequency configuration options from 300kHz – 1800kHz are available. The extensive range of the low frequency in conjunction with the ultra-high resolution of the high frequency module transform Hunter into the ideal all-rounder for target location and identification using the same sonar equipment. Like all Marine Sonic Technology products, the ARC Hunter comes with the user-friendly and self-explanatory Sea Scan Survey acquisition and review software.

### Applications

- Salvage, Treasure, & Diving Surveys
- Archaeological & Biological Surveys
- Terrain Mapping & Obstruction Surveys
- Search & Recovery
- Civil Infrastructure Inspection
- Offshore Infrastructure Inspection

### Key Features

- Single & Dual Frequency Configurations
- Altimeter / Depth / Orientation Sensor
- Stainless Steel or Aluminum, Construction
- Various Hydraulic & Electric Winch Options
- 30m - 500m Tow Cable Options
- Lightweight Kevlar & Armored Tow Cable Options



**MARINE SONIC TECHNOLOGY**  
A brand of TKMS ATLAS North America

# Sea Scan® ARC Hunter

Full Flexibility | Low Lifecycle Costs | Great Customer Service

## Towfish Specifications

<b>Construction</b>	Aluminum or Stainless
<b>Dimensions</b>	11.4cm (ø) x 203.2cm (L) 4.5in (ø) x 80in (L)
<b>Weight*</b>	Aluminum: 54.5kg / 120lbs Stainless: 99.8kg / 220lbs
<b>Depth Rating</b>	300m / 984ft

\* Weights are adjustable based on desired operations

## Tow Cable Specifications

<b>Construction</b>	Twisted Pair with Kevlar Strength Member
<b>Length Options</b>	30m to 500m / 98ft to 1640ft
<b>Bend Radius</b>	10cm / 4in

## Topside Communications Unit Specifications

<b>Construction</b>	IP68 Watertight Enclosure
<b>Dimensions</b>	24cm x 16.5cm x 9cm 9.5in x 6.5in x 3.5in
<b>Connections</b>	Ethernet / Towfish / Power
<b>Power</b>	12VDC - 30VDC, 100Vac - 200Vac with Adapter

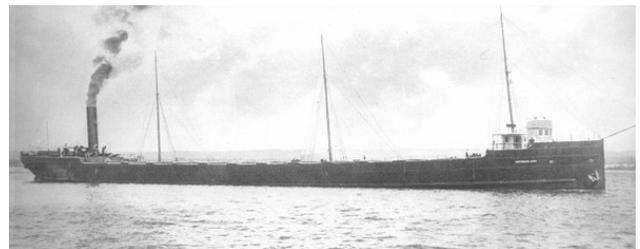
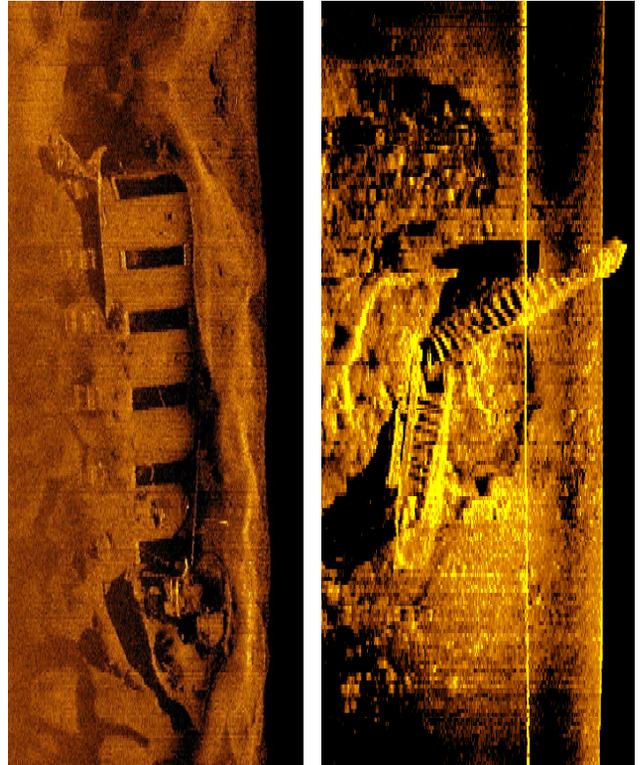
## Acoustic Specifications

<b>Across Track Resolution</b>	0.5 cm to 2 cm
<b>Horizontal Beam Angle</b>	0.34° (two-way)
<b>Vertical Beam Angle</b>	24° (two-way)
<b>Transmit Pulse Technology</b>	Marine Sonic Technology Adaptive™ CHIRP
<b>Transmit Pulse Bandwidth</b>	35kHz to 150kHz
<b>Transmit Pulse Length</b>	256µs
<b>Data Collection Speed</b>	5.3 Knots Max.

## Frequency Specifications

Frequency	Max Range (per side)	Along Track Resolution
150kHz	500m / 1640ft	30.4cm
300kHz	250m / 820ft	30.4cm
600kHz	140m / 460ft	15.2cm
900kHz	80m / 262ft	10.2cm
1200kHz	45m / 148ft	7.6cm
1800kHz	25m / 82ft	5.1cm

The image below is of the SS Superior City at a range of 30m (left) using the 900kHz module, and a range of 137m (right) taken with the Arc Hunter 150kHz module. The SS Superior City sank in 1920 and rest upright in 82m (270ft) of water in Whitefish Bay Lake Superior.



We Pride ourselves on our Customer Support.

- Free 24hr Tech Support
- Free Factory Training
- Free Software Upgrades
- 3-year limited warranty

TKMS ATLAS North America LLC  
120 Newsome Drive, Suite H  
P.O. Box 1309  
Yorktown, VA 23692 | United States

Phone: +1.757.463.0670  
sales@us-tkmsgroup.com  
www.marinesonic.com



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