

# SONOPTIX

Sound You Can See



## ECHO

The Sonoptix ECHO is a small, low-cost, FLS (Forward Looking Sonar) designed for long range underwater navigation and near-range underwater searching. Suitable for most coastal and inshore underwater vehicles and platforms, the ECHO allows for easy integration with a broad low-voltage input range and standard Ethernet connectivity. Operation of the ECHO is also very simple and straightforward only requiring a web browser to access the user interface to view and record the sonar image.

Specifications	ECHO
Depth Rating	350m
Dimensions	149.7 x 100.0 x 42.3 (mm)
Weight	0.75kg air / (TBD) water
Operating Frequency	400kHz (>30m) 700kHz (<30m)
Range Resolution	<8mm
Maximum Range	100m @ 400kHz 30m @ 700kHz
Minimum Range	<0.2m
Maximum Update Rate	25Hz
Horizontal View Angle	90° @ 400kHz 120° @ 700kHz
Vertical View Angle	20°
Number of Beams	256
Angular Resolution	1.5°/2.5°
Beam Separation	0.47°
Power Consumption	5W-25W
Supply Voltage	9V-28V
Communications	Ethernet
Connector/Cable	2m Whip (Unterminated) 8mm Diameter Polyurethane Jacket
Integrated Sensors	Compass
Temperature Range	0°C to +35°C
Construction Material	Titanium & Delrin
Country of Origin	Norway



