



## TSR-3000 3-D SONAR

Does your application require simultaneous, co-located side scan image and bathymetry sonar data?

Does your application require a sector scan sonar that can gather simultaneous, co-located image and profile data?

The TSR-3000 3-D Sonar is a high performance modular sonar system that can be configured to your requirements. In the TSR-3000 Sector Scan configuration with a rotator, the TSR-3000 can be used to collect simultaneous profile and image data. In the side scan configuration, the TSR-3000 can be used to collect simultaneous bathymetry and side scan image data.

Information provided by Think Sensor Research is believed to be accurate and reliable. However, no responsibility is assumed by Think Sensor Research for its use. Specifications subject to change without notice.

The TSR-3000 Sonar can output raw carrier wave sampled data from each receive channel for advanced beam-forming, bottom classification and sonar data filtering.

TSR-3000 SPECIFICATIONS (PRELIMINARY, SUBJECT TO CHANGE)	
FEATURE	SPECIFICATION
Transducer Dimensions	330 mm x 70 mm x 42 mm (300 kHz Transducer)
Rotator Dimensions	168 mm Length x 81 mm Diameter
Sonar Electronics Housing Dimensions	318 mm Length x 168 mm Diameter
Material	Aluminum housing
Weight	15 kg (in 3-D Sector Scan configuration)
Depth Rating	1500 m (Aluminum)
Power	12 VDC to 36 VDC reverse polarity protected, 10 Watts
Communication	USB over Cat 5e
Connector	8 pin Subconn Micro Series (others available upon request)
Frequency	300 kHz (450 kHz optional)
Transducer	1 channel transmit, 6 channel receive
Side Scan Sonar Horizontal Beamwidth	1.25 deg at 300 kHz
Imaging / Side Scan Range Resolution	5 cm at 300 kHz, 3.3 cm at 450 kHz
Bathymetric Resolution	Dependent on range, tilt angle and wave form, please contact Think Sensor Research Inc for more details
Bathymetric Accuracy	Dependent on range, tilt angle and wave form, please contact Think Sensor Research Inc for more details
Maximum Range	130 m (300 kHz)
Pulse Modulation	CW, Chirp
Pulse Length	1 ms maximum
Options	Motion Reference Unit, Rotator, Conductivity, Temperature, Depth Sensors

## About Think Sensor Research

We aim to revolutionize the way data is collected in marine and aerospace applications by providing state-of-the-art sensor products and highly individualized assistance and on-going support. We take a pragmatic approach to the design of our solutions with a decade of hands-on experience in marine and aerospace electronics and focus on our clients' on-going success with an innovation-driven culture. Think Sensor Research is a privately owned company based in West Vancouver, British Columbia, Canada.