

**SONAVISION**

World Class Underwater Technology

# Titan Scanning Sonar

## CLARITY WITHOUT COMPROMISE

The Titan is a long-range sonar capable of ranges up to 240m and is the only sonar of its size and range with the performance of a high-resolution sonar. The Titan is designed without compromise to quality of resolution.

Manufactured with a titanium pressure housing for use in water depths of 3000m, Titan is a 250kHz to 500kHz tuneable sonar. The transducer uses separate transmit and receive frequencies which produces a high-resolution image.

Titan uses a special wideband 1:3 Piezo Composite Transducer. Sonavision was the first commercial user of Composite PZT in scanning sonars and have over twenty years experience designing these. The benefits of using composite transducers are enhanced beam control and optimisation of transmit and receive. In addition, side-lobes are suppressed, reducing false returns. This is particularly advantageous in a long range sonar.

Titan is supplied with a titanium shelled 6 pin underwater connector, compatible with SV4000, SV3000 and SV6000 sonars.

Communication is by RS232 or RS485 and Titan can be used with PC, laptop or Minerva SCU with Sonavision Software. This is available for download from Sonavision's website and does not require a user licence or key.

Titan is also backward compatible with SV2050, SV2055 and SV2060 surface units.



- **Workclass ROV navigation**
- **Ploughs**
- **Crawlers**
- **Pipelaying vehicles**
- **Rig positioning**
- **Underwater civil engineering**
- **Long range debris monitoring/  
mapping**
- **Solid and rugged**
- **Dual transducer - Tx  
and Rx for low noise**
- **High acoustic  
performance and true  
acoustic zoom**
- **Can be PC driven on  
interface**
- **Supplied with non-  
licenced Sonavision  
software**
- **Automatic software  
controlled adjusting  
receiver for best  
range performance**

[www.sonavision.co.uk](http://www.sonavision.co.uk)





# Titan Scanning Sonar

## Technical Specifications

### SUBSEA UNIT

Height	226mm
Diameter	90mm
Weight (in air)	3kg
Weight (in water)	1.4kg
Temperature: operating	0°C to +40°C
storage	-20°C to +50°C
Construction	Titanium body, UPVC transducer
Depth rating	3,000m (standard)
Power consumption	15 Watts
Power requirements	+18 to 32VDC
Max umbilical length	1,500m (RG108 or similar twisted pair with a DC loop resistance of less than 220 Ohms)
Telemetry link	RS232 / RS422 / RS485
Mounting	Upright, inverted or profile
Scan modes	Forward / reverse / auto
Variable speed selection	
Automatic software controlled receiver	
Fully field serviceable	
Supplied with packing case	

### TRANSDUCER - 250-500kHz

Beamwidth:	Transmit	27° vert. x 2.1° horz. at 500kHz
	Receive	27° vert. x 3.0° horz. at 500kHz
MDS		74dB
Source level		210dB re 1µPa at 1m
Pulse length		100µsec (adjustable)
Bandwidth		10kHz (adjustable)

### OPTIONS AVAILABLE

Type	Frequency	Range
Single frequency	500 kHz	100m
Single frequency	200 kHz	300m

Due to continual product development, specifications are subject to change. Please contact Sonavision for latest specifications.