

ISP360

HIGH PERFORMANCE PROFILING SONAR

**IMPACT
SUBSEA**
INNOVATIVE SENSORS



FEATURES & BENEFITS

- > **80 METER RANGE**
Long range profiling.
- > **4,000M DEPTH RATING**
Ideal for shallow and deep water.
- > **PITCH & ROLL***
Provides Pitch and Roll to 0.2° accuracy.
- > **SMALL FORM FACTOR**
Highly compact high resolution profiling sonar.
- > **NO SLIP RINGS**
No components to wear.
- > **IMAGING & PROFILING**
Imaging and Profiling modes of operation.



Impact Subsea are proud to present the high resolution profiling sonar - the ISP360.

Optionally available with integrated Pitch & Roll.

Utilising a broadband composite transducer coupled with IS³ Impact Subsea Signalling Scheme enables a significant increase in range resolution while maintaining excellent accuracy and range capability.

For applications where Sonar Profiling, Pitch & Roll are required; all can be provided from a single device.

The IS³ Impact Subsea Signalling Scheme also allows multiple profilers to run without the need to 'ping-sync', enabling an increase in profiling speed.

Provided in a highly robust Titanium housing. Alternative configurations are available upon request.

APPLICATIONS INCLUDE:

Pipeline Profiling | Trench Profiling | Positioning of a Vehicle in a Tank |
Internal Pipe and Tank Profiling | Asset Positioning | Bridge Foundation Survey |

*Optional

IS³
SIGNALLING SCHEME



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ACOUSTIC

Frequency	650kHz to 1.25MHz Bandwidth
Range (650kHz)	0.30 to 80 meters
Range (1.25MHz)	0.30 to 40 meters
Timing Accuracy	0.35 mm (minimum)
Beam Angle	2° Conical at 650kHz 1° Conical at 1.25MHz
Signalling Selectable	CW, CHIRP & IS ³
Step Size Selectable	0.225°, 0.45°, 0.9°, 1.8°, 3.6° & 7.2°
Scan Angle	360° Continuous or Sector Scan

ATTITUDE*

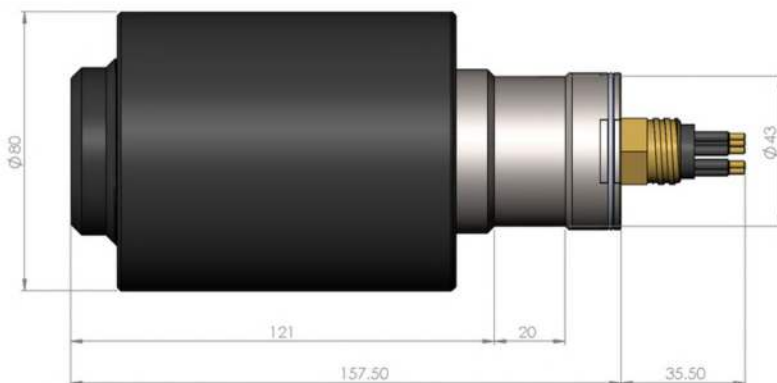
Pitch	± 90°
Roll	± 180°
Accuracy	0.2°
Resolution	0.1°

COMMS & POWER

Digital	RS232, RS485 & Ethernet
Protocol	9600 to 115,200 baud
Input Voltage	12 to 65V DC
Power Standby	260mA @ 24V DC
Power Scanning ¹	380mA @ 24V DC

PHYSICAL

Depth Rating	4,000m
Temperature	-10 to 40°C Operating -20 to 60°C Storage
Connector	Subconn MCBH8M-SS Other options available
Weight Air/Fresh water	0.88/0.31kg



Dimensions given in mm.

*Optional

¹ Based on maximum power level and scanning speed.