# **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 IS<sup>3</sup> 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 IS<sup>3</sup> 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.



\*Optional



### APPLICATIONS INCLUDE:



# ISP360

### HIGH PERFORMANCE PROFILING SONAR

### **ACOUSTIC**

650kHz to 1.25MHz Bandwidth Frequency

Range (650kHz) 0.30 to 80 meters Range (1.25MHz) 0.30 to 40 meters

Timing Accuracy 0.35 mm (minimum)

2° Conical at 650kHz Beam Angle

1° Conical at 1.25MHz

Signalling Selectable

CW, CHIRP & IS3

Step Size

0.225°, 0.45°, 0.9°, 1.8°, 3.6° & 7.2°

Selectable

Scan Angle 360° Continuous or Sector Scan

### ATTITUDE\*

Pitch ± 90° Roll ± 180° 0.20

# Accuracy Resolution 0.1°



\*Optional

### **COMMS & POWER**

Digital RS232, RS485 & Ethernet

Protocol 9600 to 115,200 baud

12 to 65V DC Input Voltage

260mA @ 24V DC Power

Standby

Power 380mA @ 24V DC

Scanning<sup>1</sup>

### **PHYSICAL**

Depth Rating 4,000m

Temperature -10 to 40°C Operating

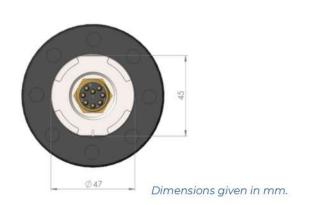
-20 to 60°C Storage

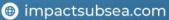
Connector Subconn MCBH8M-SS

Other options available

Weight 0.88/0.31kg

Air/Fresh water





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<sup>&</sup>lt;sup>1</sup> Based on maximum power level and scanning speed.