

ImpactSubsea

Innovative Underwater Products

ISS360 – Compact Imaging Sonar



Impact Subsea is proud to present the most compact imaging sonar in the world - the **ISS360**.

The **ISS360** is optionally available with integrated **Attitude & Heading Reference System (AHRS)** providing Heading, Pitch & Roll.

Utilising a broadband composite transducer together with an advanced digital acoustic engine provides excellent range capability and image clarity.

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

The **ISS360** is provided in a highly robust Titanium or Acetal housing. The unit can be supplied without the AHRS. Alternative OEM configurations are available upon request.

Features

90 Meter Range

4,000m Depth Rating

Integrated AHRS

Small Form Factor

Broadband Transducer

No Slip Rings

Benefits

Long Range Imaging

Ideal for Shallow and Deep Water

Provides Heading to $\pm 1^\circ$, Pitch & Roll to 0.2° Accuracy

Smallest Imaging Sonar Available

Excellent Image Quality & Range

No Components to Wear

Applications

ROV & AUV Navigation

Target Identification

Search & Recovery

Motion Reference

Port Surveillance

Diver Navigation

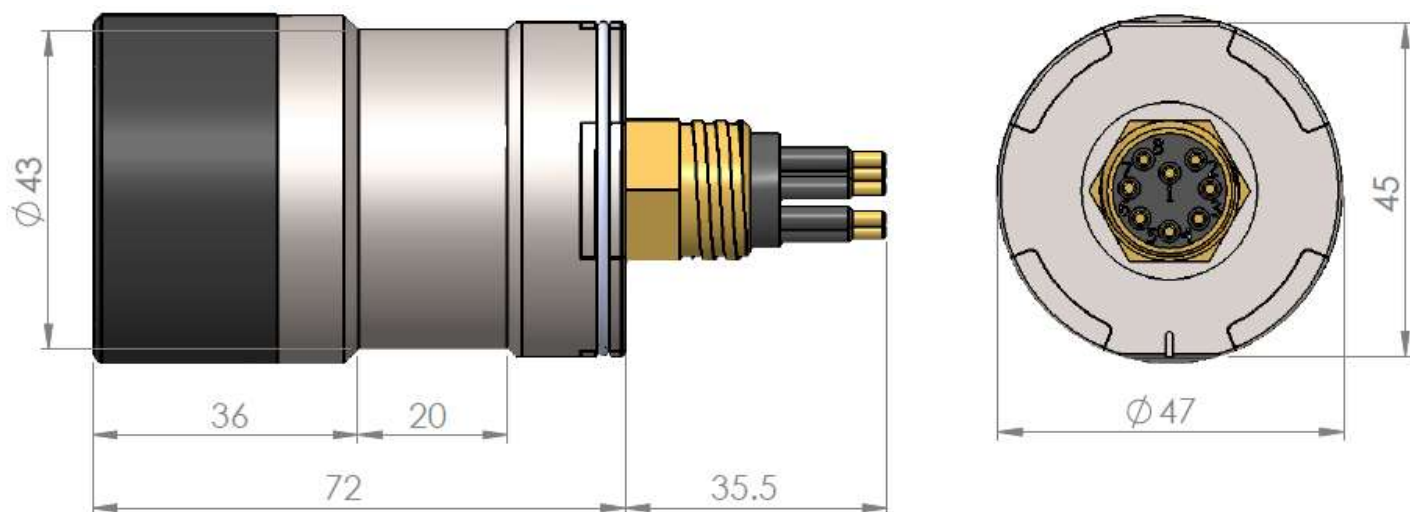
Heading

www.impactsubsea.com

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All dimensions are in mm.

Acoustic

<i>Frequency</i>	700kHz Centre 650 to 750kHz Bandwidth
<i>Range</i>	0.1 to 90m
<i>Range Resolution</i>	7.5mm min
<i>Beam Angle</i>	23° Vertical 2.2° Horizontal
<i>Signalling (Selectable)</i>	CHIRP & CW
<i>Step Size (Selectable)</i>	0.1125°, 0.225°, 0.45°, 0.9°, 1.8° & 3.6°
<i>Scan Angle</i>	360° Continuous or Sector Scan

Communications & Power

<i>Digital</i>	RS232, RS485 & Ethernet
<i>Protocol</i>	300 to 115,200 baud
<i>Input Voltage</i>	12 to 65V DC
<i>Power (Standby)</i>	110mA @ 24V DC
<i>Power (Scanning)*</i>	150mA @ 24V DC

* Based on maximum power level and scanning speed

Specifications subject to change in line with product enhancements. Rev 1.3

Heading

<i>Accuracy</i>	± 1°
<i>Resolution</i>	0.1°

Attitude

<i>Pitch</i>	± 90°
<i>Roll</i>	± 180°
<i>Accuracy</i>	0.2°
<i>Resolution</i>	0.1°

Physical

<i>Weight (Air / Fresh Water)</i>	0.38/0.3kg (Titanium) 0.22/0.15kg (Acetal)
<i>Depth Rating</i>	4,000m (Titanium) 1,500m (Acetal)
<i>Temperature</i>	-10 to 40° operating -20 to 60° storage
<i>Connector</i>	Subconn MCBH8M-SS (other options available)

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