

Gemini 720is

Real-time multibeam imaging sonar



With a 120° field of view and a fast update rate of 30Hz, the Gemini 720is is ideal for poor visibility environments. The Gemini 720is is supplied with Seanet Pro, Tritech's data acquisition and logging software, which offers users the ability to network and operate the sonar along with a range of other Tritech sensors from a single software interface.

The Gemini standalone software also provides users with additional control over the Gemini 720is and can be upgraded to Gemini SeaTec to provide a variety of target classification and tracking capabilities. The capability to record data in a range of digital video formats and output screen shots for review comes as standard.

The 720is is the latest generation from Tritech's renowned multibeam sonar range and offers a real-time, high frequency imaging solution. The Gemini 720is operates at 720kHz and this combined with Tritech's state-of-the-art processing electronics, produces images of superb clarity. This latest design is ideal for pan and tilt mounting on observation class ROVs.

Specifications

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| Product | Gemini 720is |
| Country of origin | UK |
| Manufacturer | Tritech International Limited |

Acoustic specifications

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| Operating frequency | 720 kHz |
| Angular resolution | 1.0° acoustic, 0.5° effective |
| Field of view | 120° |
| Number of Beams | 256 |
| Vertical Beamwidth | 20° (tilted down 10°) |
| Range | 0.2m to 120m |
| Update Rate | 5-30Hz (range dependent) |
| Range Resolution | 8mm (range dependent) |

Interface

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| Power requirement | 25W max |
| Supply voltage | 22 to 74V DC |
| Communications protocols | Ethernet or VDSL |
| Additional I/O | RS232, RS485 (half duplex), TTL in, Ethernet |
| Connector type | SeaCon 55 series, SeaCon MCBH or Schilling SeaNet (single port as standard) |
| VDSL cable length | Maximum length for VDSL and power is 300m, if power is provided locally then maximum cable length for VDSL communication is 500m. |

Physical specifications

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| Depth rating | 1000m (Aluminium) 4000m (Titanium) |
| Weight in air | 3.5kg (Aluminium) 5.0kg (Titanium) |
| Weight in water | 1.5kg (Aluminium) 3.0kg (Titanium) |
| Temperature ranges | -10 to 35°C (operating), -20 to 50°C (storage) |

