

The Gemini 720ik is a shallow rated version of the industry recognised Gemini 720is, offering the same imaging performance as the Gemini 720is but in a more compact package. The smaller and lighter Gemini 720ik is ideal for small ROVs and shallow water operation where size and weight is critically important.

Benefits

- Near field focusing
- 4mm / 0.2in range resolution
- Clear wide angle field of view
- Easier interpretation of sonar imagery

Features

- 720kHz operating frequency
- CHIRP processing
- Wide 120° field of view
- Suitable for low visibility environments Real-time updates for video like imagery
 - Integrated velocimeter for accurate ranging

A real-time, high frequency imaging solution, the Gemini 720ik operates at 720kHz and combined with Tritech's advanced processing electronics, it produces images of outstanding clarity, benefitting from 512 beams which results in a 0.25° effective angular resolution. The Gemini 720ik has been developed specifically for shallow water operations with low power consumption and Compressed High Intensity Radar Pulse (CHIRP) processing for greater definition at long range. The product also has an integrated Velocity of Sound (VoS) sensor to ensure extremely accurate imaging and measurement.

The Gemini 720ik is supplied with Genesis, Tritech's data acquisition and logging software, which offers users the ability to operate a number of Tritech sensors using this single software program.

Key Specification	
Operating frequency	720kHz
Angular resolution	1.0° acoustic, 0.25° effective
Supply voltage	19V to 74V DC
Power requirement	16W - 27W (range dependent)
Main port protocol	Ethernet
Depth rating	350m / 1148ft
Weight in air	1.40kg / 3.08lbs
Weight in water	0.43kg / 0.96lbs



Acoustic specifications	
Operating frequency	720kHz
Angular resolution	1.0° acoustic, 0.25° effective
Range	0.1m - 120m / 4in - 394ft
Number of beams	512
Horizontal beam width	120°
Vertical beam width	20°
Range resolution	4mm / 0.2in
Update rate	5 - 97Hz (range dependent)
Mode of operation	CHIRP or CW
Speed of Sound	Integrated VoS sensor

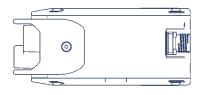
Interface	
Supply voltage	19V to 74V DC
Power requirement	16W - 27W (range dependent)
Main port protocol	Ethernet
Auxiliary port protocol	RS232, TTL in, pass-through power (2.5A max)
Connector type	MAIN port: Impulse MKS(W)-307-FCR AUX port: Impulse MKS(W)-307-FCR

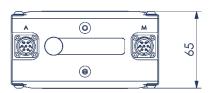
Physical specification		
Depth rating	350m / 1148ft	
Weight in air	1.40kg / 3.08lbs	
Weight in water	0.43kg / 0.96lbs	
Temperature rating (operating)	-10°C to 35°C / 14°F to 95°F	
Temperature rating (storage)	-20°C to 50°C / 4°F to 122°F	

Software requirements	Minimum	Recommended	
Included	Genesis		
Processor	2GHz	3GHz Quad Core	
Graphics	3D hardware accelerated graphics card		
SDK	Available on request		
Operating System	Microsoft Windows 7, 10		

Specification subject to change in line with Tritech's policy of continual product development

Not to scale. Measurements in mm.





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