

IM15-100G & IM15-101G

Applications

- Mid-Water Navigation Tasks
- General Observation & Situational Awareness
- Drill Support Tasks
- Manipulator & Tooling Tasks



High Resolution Enhanced Monochrome CCD Camera

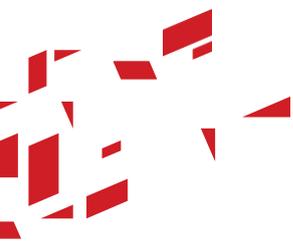
- 94.8° Wide AOV
- Excellent Low Light Performance
- 4500msw Depth Rating
- Direct replacement for OE15-100/1F

The IM15-100G (CCIR) and IM15-101G (EIA RS170A) standard definition, high resolution monochrome cameras have been designed primarily for use in subsea environments and are ideally suited to mid-water navigation tasks and general observation including manipulator and tooling tasks, construction and drill support applications.

The IM15-100G/101G cameras offer both exceptional low light sensitivity and an extremely wide AOV (94.8°). The water corrected optical arrangement minimises distortions and aberrations and the video image will appear in focus from 500mm in front of the port to infinity, making the IM15-100G/101G an excellent choice for both navigation and general observation applications.

Packaged within a robust 4500msw depth rated titanium alloy housing the IM15-100G/101G provides a standard definition composite video signal output via the Burton 5506-1508 connector or customer specified external connector.

The IM15-100G/101G is supplied in a rugged transit case with a handheld infra-red remote control which has been intuitively designed for ease of use.



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Technical Specifications

Performance	
Horizontal Resolution	570 TVL/PH (OE15-100G) 570 TVL/PH (OE15-101G)
Maximum Scene Illumination	Greater than 60,000 lux
Minimum Scene Illumination	0.0009 lux at 100mv video
Signal to noise ratio	>45dB (weighted)
Electrical	
Scan Standards	625 lines 50 Hz CCIR (OE15-100G) 525 lines 60 HZ EIA RS170A (OE15-101G)
Sensor Elements	752 (H) x 582 (V) (OE15-100G) 768 (H) x 492 (V) (OE15-101G)
Video Output	1V pk-pk composite video into 75Ω
Power Input	16 - 30 VDC, 220Ma
Optical	
Lens	2.8mm to 12mm varifocal, F/1.4
AOV in water	Diagonal: 94.8° Horizontal: 75.9° Vertical: 56.7°
Iris Control	Automatic
Focus Range	500mm to infinity, fixed
Water Compensation	Concentric Dome Port
Mechanical	
Dimensions	Diameter: 82mm (main body), 89mm (front end) Length: 191mm (excl. connector)
Weight	In air: 2.15 Kg In water: 1.2 Kg
Housing Material	Titanium alloy 6AL/4V ASTM B3 48
Connector	Burton 5506-1508 or customer specified
Environmental	
Operating Depth	4500 msw (other depth rated housing options available)
Temperature	Operating: -5 to 40°C Storage: -20 to 60°C
Shock	30G peak acceleration, 25ms half sine duration, on all three axes
Vibration	10G, from 20 to 150HZ on all three axes
Electromagnetic Compatibility	BS EN 61000-6-3: 2007 Emission and BS EN 61000-6-1: 2007 Immunity

