

Low Light Black and White Camera

oe15-102/103



- Solid State SIT Performance
- Low Through-Life Costs
- No Image Lag

The oe15-102/103 underwater CCD camera is the first to offer full SIT performance without the need for an image intensifier.

The oe15-102/103 uses a cooled solid-state CCD sensor incorporating Advanced Readout Technology, which gives a significantly higher output signal and much improved Signal-to-Noise, in the Blue/Green light region, vitally important for underwater use. Since the new camera does not use an intensifier, the sensor-life of the camera is dramatically improved. This significantly reduces the through-life costs of ownership compared to a conventional intensified low-light camera. The operating cost benefit is achieved without sacrificing any light sensitivity or image quality.

The oe15-102/103 camera is particularly suited to underwater vehicle navigation because of the significantly reduced image lag, together with a low distortion, wide-angle of view of 86° in water. The resolution of 430TVL provides a compatible output for the latest generation of high-quality digital video recorders. The negligible magnetic field associated with the CCD electronics also makes it ideally suited for underwater Mine-Countermeasures operations.

Standard Features**Electrical**

Horizontal Resolution	430 TV Lines for the oe15-102 430 TV Lines for the oe15-103
Light Sensitivity (limiting/IR filtered)	1 x 10 ⁻⁴ Lux (faceplate)
Scene Illumination	8 x 10 ⁻⁴ Lux
Sensor Type	0.9" diagonal enhanced CCD
Signal to Noise Ratio	>40dB weighted (AGC off)
Scanning	625 Line / 50 Hz PAL 525 Line / 60 Hz NTSC
Power Input	Constant Voltage 16V - 24V dc 900mA (max)
Video Output	1.0V Pk - Pk composite video into 75Ω
Electro-Magnetic Compatibility	EN50081-1 Emission / EN50082-1 Immunity

Environmental

Water Depth	3,000 metres
Temperature	Operating -5°C to +40°C in Water Storage -20°C to +60°C
Vibration	10g, 20-150Hz, 3-axes (non-operating)
Shock	30g peak, 25mS half-sine pulse

Optical

Standard Lens	6.5mm f/1.8
Iris Control	Automatic
Focus Control	150mm to infinity
Angle of View	86° diagonal in water

Mechanical

Size	Diameter 103mm Length 220mm exc. connector
Weight	Air 3.2 Kg Water 1.6 Kg
Standard Housing Connector	Titanium Alloy 6AL/4V ASTM B3 48 8 Pin Burton 5506-1508 Other connectors available

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