

Applications

- Low Light Surveillance
- Mid-Water Navigation Tasks
- General Observation & Situational Awareness

OE13-126/127



Extreme Low Light Monochrome Underwater CCD Camera

- 86° Wide AOV Excellent
- Low Light Performance
- 4500msw Depth Rating

The OE13-126 (CCIR) and OE13-127 (EIA RS170A) extreme low light, monochrome cameras have been designed primarily for use in subsea environments and are ideally suited to low light surveillance including mid-water and long-range navigation tasks, general observation and situational awareness applications.

The OE13-126/127 cameras offer both exceptional low light sensitivity and a wide AOV (86° diagonal) in water. The OE13-126/127 incorporates a back-illuminated and thinned (BIT) CCD sensor and advanced imaging processing technology, delivering a significantly improved low light performance over conventional low light SIT, CCD and CMOS sensors in all subsea environments.

The video image will appear in focus from 300mm in front of the port to infinity; making the OE13-126/127 an excellent choice for both navigation and general observation applications.

Packaged within a robust 4500msw depth rated titanium alloy housing the OE13-126/127 provides a standard definition composite video signal output via the Burton 5506-1508 connector or customer specified external connector.

The OE13-126/127 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	576 TVL/PH
Light Sensitivity	300 TVL video at 20 x 10 ⁻⁶ lux faceplate
Minimum Scene Illumination	350 x10 ⁻⁶ lux
Signal to Noise Ratio	70dB (weighted)
Electrical	
Scan Standards	625 lines 50 Hz CCIR (OE13-126) 525 lines 60 HZ EIA RS170A (OE13-127)
Video Output	1V pk-pk composite video into 75Ω
Power Input	16 – 24 VDC, 1.5A (max)
Optical	
Lens	4.8mm, F/1.8
AOV in water	Horizontal: 74° Vertical: 58° Diagonal: 86°
Iris Control	Automatic
Focus Range	100mm to infinity, fixed (in water)
Mechanical	
Dimensions	Diameter: 110mm (main body) Length: 214mm (excl. connector)
Weight	In air: 4 Kg In water: 2 Kg
Housing Material	Titanium alloy 6AL/4V ASTM B3 48
Connector	8 pin 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: 2001 Emission BS EN 61000-6-1: 2001 Immunity

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