

IM13-136/137

Applications

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



Extreme Low Light Monochrome Underwater CCD Camera

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

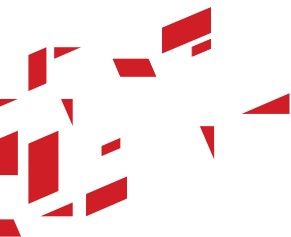
The IM13-136 (CCIR) and IM13-137 (EIA RS170A) extreme low light, monochrome cameras have been designed primarily for use in subsea environments and are ideally suited to low light surveillance including mid-water and long-range navigation tasks, general observation and situational awareness applications.

The IM13-136/137 cameras offer both exceptional low light sensitivity and a wide AOV (86° diagonal) in water. The IM13-136/137 incorporates an 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 an estimated 300mm in front of the port to infinity, making the IM13-136/137 an excellent choice for both navigation and general observation applications.

Packaged within a robust 4500msw depth rated titanium alloy housing the IM13-136/137 provides a standard definition composite video signal output via the Burton 5506-1508 connector or customer specified external connector.

The IM13-136/137 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 | tba |
| Minimum Scene Illumination | tba |
| Signal to Noise Ratio | 70dB (weighted) |
| Electrical | |
| Scan Standards | 625 lines 50 Hz CCIR (OE13-136) 525 lines 60 HZ EIA RS170A (OE13-137) |
| Video Output | 1V pk-pk composite video into 75Ω |
| Power Input | 16 – 24 VDC, 1.5A (max) |
| Optical | |
| Lens | 5mm F2.0 |
| AOV in water | Horizontal: 74° Vertical: 58° Diagonal: 86° |
| Iris Control | Automatic |
| Focus Range | 100mm to infinity, fixed (in water) |
| Mechanical | |
| Dimensions | Diameter: 88mm (main body)109.5mm at front end. Length: 156.6mm (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 |

IM13136_Datasheet_DRAF

