

Applications

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

IM13-136 & IM13-137 SD



Extreme Low Light Monochrome Underwater CCD Camera

- 95° Wide AOV Excellent
- Low Light Performance
- 4500msw Depth Rating

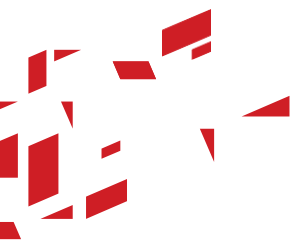
The IM13-136 SD (50hz) and IM13-137 SD (60hz) extreme low light, monochrome cameras have been designed primarily for use in subsea environments and are ideally suited to low light surveillance including mid-water and long-range navigation tasks, general observation and situational awareness applications.

The IM13-136/137 SD cameras offer both exceptional low light sensitivity and a wide AOV (95° diagonal) in water. The IM13-136/137 SD 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 610mm in front of the port to infinity, making the IM13-136/137 SD an excellent choice for both navigation and general observation applications.

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

The IM13-136/137 SD 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	540 TVL/PH
Sensitivity	IR filter fitted 76 microlux faceplate (300TVL limit)
Minimum Scene illumination	IR filter fitted 1335 microlux faceplate (300TVL limit)
Boot up time	< 25 seconds
Signal to noise Ratio	50db (weighted)
Electrical	
Scan Standards	625 lines 50 Hz (IM13-136) 525 lines 60 HZ (IM13-137)
Video Output	1V pk-pk composite video into 75Ω
Power Input	16 – 24 VDC, 700mA (max) (Boot up time is 25 seconds) (900ma Inrush)
Optical	
Lens	5mm F2.0
AOV in water	Diagonal: 95° Horizontal: 70.5° Vertical: 52.5°
Iris Control	None (Electronic shutter)
Focus Range	Fixed Focus 610mm to infinity (in water)
Mechanical	
Dimensions	Diameter: 88mm (main body)110mm at front end. Length: 164mm (excl. connector)
Weight	In air: 2.56 Kg In water: 1.79 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

