



Subsea Monochrome Low Light HD IP Camera

0456-6100

Benefits

- HDTV 1080p Ethernet camera
- Excellent Low Light performance; 0.0001 Lux
- Varifocal Lens with up to 71° HFOV
- Wide operating temperature range
- 1000 msw depth rating; Titanium housing

Applications

- Low Light Surveillance
- General Observation & Situational Awareness
- Naval Submarines

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Performance, Electrical & Network

Horizontal Resolution	≥800 TVL/PH
Light Sensitivity	0.0001Lux F1.2 (AGC High, shutter off)
Maximum Scene Illumination	> 100,000 Lux
Light Compensation Range	250,000 : 1 (AGC plus auto iris)
Gain Control	AGC up to 72dB
Gamma Correction	0.45 (typical)
Sensor Resolution	1920 x 1080 (2MP)
Sensor	1/ 2.8" Back Side Illuminated (BSI) monochrome CMOS, progressive scan
Power Input	16 to 28 V dc, < 3W
Video Output Interface	Ethernet 100Base-TX IP signal
Video Compression	H.264, MJPEG
Video Streaming	Up to 2 simultaneous streams
Frame Rate	25Hz (max 30Hz)
On-board Storage	Micro SD / SDHC / SDXC card slot
Protocols / Network	TCP/IP, UDP/IP, RTP (RTCP), RTSP, SNTP, HTTP, FTP, DHCP, DNS ONVIF Profile S support, Milestone Xprotect® compatible

Optical

Lens	2.8mm to 10mm, F1.2, Varifocal, MegaPixel IR
AOV (in water)	Horizontal 70.8°, Vertical 44°
Iris Control	Automatic
Focus Range	0.5m to infinity, fixed
Front Port	Plano-concave acrylic, water corrected

Mechanical

Dimensions	Diameter 80mm (main body), Length 242mm (excluding connector)
Weight	In air: 2.3 Kg, in water: 1.1 Kg
Housing Material	Titanium alloy, 6AL/4V ASTM B3 48
Connector	Gisma Series 10, flange receptacle, contact arrangement 3.12, Titanium, part ref: 10003.12110--

Environmental

Operating Depth	1000 metres in sea water (70 Bar pressure)
Temperature	Operating: -30°C to +60°C Storage: -30°C to +70°C
Shock, Operating	30g max, 3 axes, 25ms half sine pulse
Shock, Safety – remains Captive	139g max, 3 axes, 25ms half sine pulse
Vibration	DEF STAN 08-123, data sheet 25, Figure 25.4, peak test value 0.125mm, 5Hz to 33Hz
Electromagnetic Compatibility	DEF STAN 59-411 Part 3, Below Deck limits

Specification subject to change without any further notice