



EXPLORER

NEAR SIT LOW LIGHT MONOCHROME CAMERA

**High Resolution
Monochrome
560TVL**

**Low Light Sensitivity
 3.4×10^{-4} Lux (faceplate)**

4000 Metre Rating

Titanium Housing

**Wide Angle
Water Corrected Optics**

The Bowtech *EXPLORER* low light level, high resolution, monochrome CCD camera, is the ideal solution for extremely low light level underwater viewing and navigation, yet still producing excellent images in high intensity illumination.

The camera is manufactured with a high quality Titanium housing rated to 4,000 metres operating depth as standard. The camera is fitted with a wide angle, high speed, aspherical lens, giving a diagonal field of view of 103° through a fully water corrected front port. The camera features built-in reverse polarity & surge protection.

The miniature, high quality 1/2" CCD sensor, offers high resolution and low light level sensitivity. It is the ideal camera for low light underwater viewing tasks.



EXPLORER

ELECTRICAL

Resolution, Horizontal	560TV Lines CCIR, 570TV Lines EIA RS-170
Minimum Illumination	3.4 x 10 ⁻⁴ Lux useable picture (faceplate) 3 x 10 ⁻³ Lux Full resolution (faceplate)
Sensor Type	1/2" CCD
Sensor elements	752 (H) x 582 (V) CCIR; 768(H) x 494(V) EIA
Signal to Noise Ratio	>50dB (AGC off)
Scanning	625 Line 50Hz CCIR, 525 Lin 60Hz EIA
Power	12-30VDC
Current	350 mA
Long Line Compensation	Up to 1500m of RG59 or similar, factory set/user selectable
Composite Video Output	1.0V pk-pk @ 75ohm
Electro-Magnetic Compatibility	EN50081-1 Emission/EN50082-1 Immunity

ENVIRONMENTAL

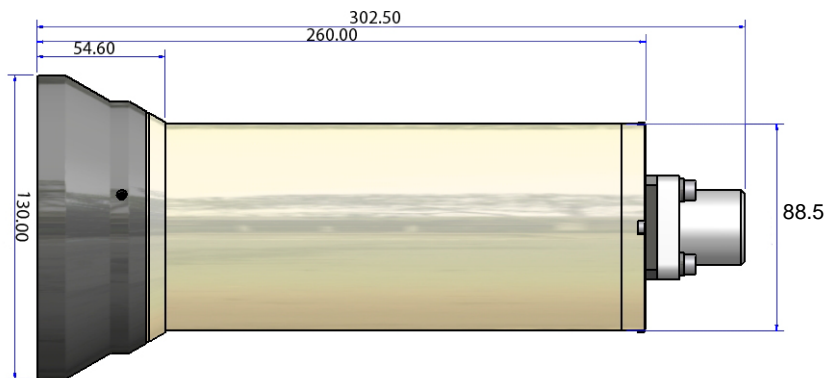
Depth Rating	4,000 meters
Temperature (Operating)	-10° C ~ +40° C operating; -30° C to + 70° C Storage
Shock	3 axis (operating) 30g peak, 6mS half-sine pulse
Vibration 3 axis (Operating)	10g, 20-150Hz

OPTICAL

Lens	Wide Angle, High Speed, Aspherical
Iris Control	Automatic
Focus Fixed	300mm ~ Infinity
Angle of View	93°(H) x 68°(V) 103° Diagonal
Window	Fully water corrected optical Acrylic

MECHANICAL

Maximum Diameter	88.5mm (3.5") Body, 130mm (5.1") Protector
Length	265mm(10.4") Excluding Connector
Weight in Air	3.2 Kg
Weight in Water	1.7 Kg
Standard Housing	Titanium Alloy Grade 5 6AL-4V ASTM B3 48
Standard Connector	Seacon 5506-1508 or 5506-2006
Optional Connectors	Large selection of Seacon and other manufacturers' connectors available



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