EXPLORER LITE

Near SIT Low Light Monochrome Camera

underwater **vision** specialists

Features

- High Resolution Monochrome 570 TVL
- Low Light Sensitivity 3.4 x 10^{-4} Lux (faceplate)
- 2,000 Metre Rated Hard Anodised Aluminium/4,000 or 6,000 Metre Rated Titanium Housing
- 103° Diagonal Angle of View
- Water Corrected Optics



Description

The Bowtech Products EXPLORER LITE low light level high resolution monochrome underwater 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 housing is manufactured using high quality hard anodised aluminium, rated to 2,000 metres operating depth as standard, or titanium housing, rated to either 4,000 or 6,000 metres operating depth.

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 and 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.

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Revision: 0

Specification – EXPLORER LITE

ELECTRICAL

Resolution, Horizontal:	570 TV Lines
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
Scanning:	625 Line 50Hz CCIR, 525 Line 60Hz EIA
Input Voltage Requirements:	12 to 24Vdc
Current (max):	150mA
Composite Video Output:	1.0V pk-pk @ 75 ohm

ENVIRONMENTAL

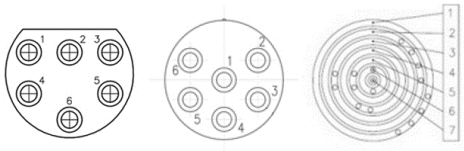
Depth Rating:	2,000, 4,000 or 6,000m Options
Operating Temperature:	-10 to +40°C
Storage Temperature:	-30 to +70°C
Shock 3 Axis (operating):	30g Peak, 6ms Half-sine Pulse
Vibration:	10g, 20-150Hz

OPTICAL

Lens:	Wide Angle, High Speed, Aspherical
Iris Control:	Automatic
Focus Fixed:	300mm to Infinity
Angle of View in Water:	93° (H) x 68° (V) 103° Diagonal
Window:	Fully Water Corrected Quartz Glass

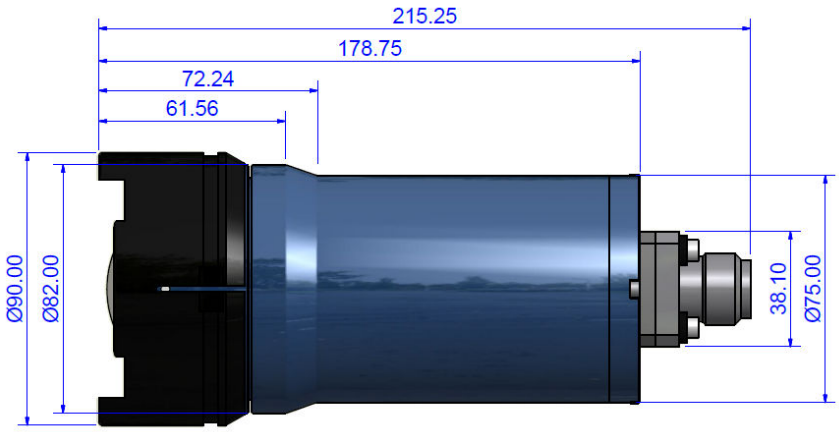
MECHANICAL

Maximum Diameter:	82mm Body
Length:	176mm Excluding Connector
Weight in Air:	1.4kg
Weight in Water:	0.5kg
Standard Housing:	Hard Anodised Aluminium-6026-T9 or Titanium Grade 5 Option
Standard Connector:	5506-1506
Optional Connectors:	Large Selection of Connectors Available



55 Series 1506 MCBH-6MP Seanet

(connector face patterns not to scale)



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