

LCC-700-610

Miniature Monochrome Camera



underwater **vision** specialists

Features

- High Resolution Monochrome 700 TVL
- Fitted with 610nm Filter to Enable Detection of Fluorescing Tracer Dyes
- Low Light Sensitivity 0.01 Lux
- 65° Diagonal Angle of View
- 4,000 or 6,000 Metre Rated Titanium Housing



Description

The Bowtech Products LCC-700-610 miniature high resolution monochrome underwater CCD camera is designed for use with our LED-540 lamp and fluorescent tracer dye, as part of our Leak Detection System. It is fitted with a 610nm filter to enable detection of the fluorescing dye.

The cameras are manufactured with a high quality Titanium housing, rated to 4,000 metres operating depth as standard, with a 6,000 metre option.

The camera is fitted with a fixed focus, wide angle lens, giving a diagonal field view of 65° in water, through a sapphire glass window. The camera features built-in reverse polarity and surge protection.

The miniature, high quality 1/3" 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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Specification – LCC-700-610

ELECTRICAL

Resolution, Horizontal:	700 TV Lines
Limiting Light Sensitivity:	0.01 Lux @ f2.0
Sensor Type:	1/3" CCD
Sensor Elements:	752 (H) x 582 (V)
Signal to Noise Ratio:	>50dB (AGC off)
Scanning:	625 Line 50Hz CCIR, 525 Line 60Hz EIA
Voltage:	12 to 24Vdc
Current:	100mA Maximum
Composite Video Output:	1.0V pk-pk
Electro-magnetic Compatibility:	EN50081-1 Emission/EN500852-1 Immunity
MTBF:	80,000 hrs

ENVIRONMENTAL

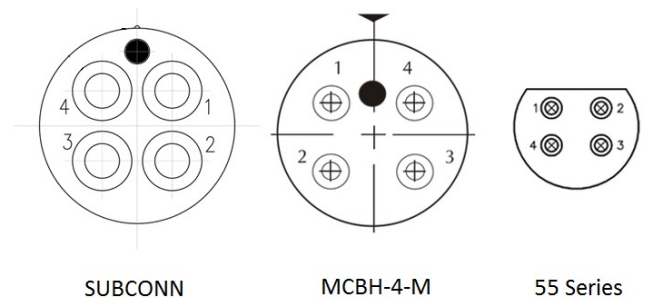
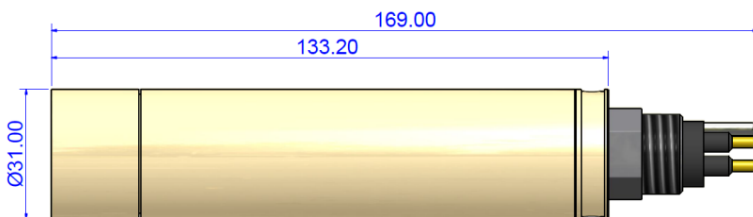
Water Depth:	4,000 or 6,000m Option
Storage Temperature:	-30 to +70°C
Operating Temperature:	-10 to +50°C
Shock:	3 Axis (operating) 30g Peak, 6ms Half-sine Pulse

OPTICAL

Lens:	f2.0 2.9mm or 3.6mm, 4.3, 6, 8, 12, 16mm
Auto Iris:	CCD Iris 1/50th to 1/100,000th sec.
Focus:	Fixed 100mm to Infinity
Angle of View:	91° Diagonal in Air, 65° in Water (2.9mm lens)
Window:	Sapphire Glass

MECHANICAL

Maximum Diameter:	31mm (1.2")
Length:	133mm (5.2") Excluding Connector
Weight in Air:	266g (when fitted with MCBH4M)
Weight in Water:	157g
Standard Housing:	Titanium
Standard Connectors:	WETCON BH-4-MP or MCBH4M
Optional Connectors:	Large Selection of Connectors



(connector face patterns not to scale)



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