

L3C-650-L

Miniature Colour Camera with Integral LEDs



underwater **vision** specialists

Features

- High Resolution Colour 650 TVL
- 10 Bit Digital Processing
- With 6 Integral High Intensity LEDs
- 50° Diagonal Angle of View
- 4,000 or 6,000 Metre Rated Titanium Housing



Description

The Bowtech Products L3C-650-L miniature high resolution underwater colour CCD camera (with six integral high intensity LEDs), provides a low cost solution to general underwater viewing and observation, down to 4,000 or 6,000 metres in confined spaces.

The cameras are manufactured with high quality titanium housings, rated to 4,000 metres operating depth, with a 6,000 metre option. The camera is fitted with a fixed focus wide angle lens, giving a diagonal field view of 50° in water, through a sapphire window. The camera features built-in reverse polarity and surge protection.

The miniature, high quality Sony 1/3" EX-View HAD CCD sensor, offers high resolution and low light level sensitivity, achieved by using 10 bit digital processing. It is the ideal camera for underwater viewing tasks.



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Specification – L3C-650-L

ELECTRICAL

Resolution, Horizontal:	650 TV Lines
Limiting Light Sensitivity:	0 Lux with LEDs on @ 4m
Sensor Type:	1/3" (Sony) EX-View HAD CCD, 10 Bit Digital Processing
Sensor Elements:	752 (H) x 582 (V) PAL, 768 (H) x 494 (V) NTSC
Signal to Noise Ratio:	>50dB
Scanning:	625 Line 50Hz PAL, 525 Line 60Hz NTSC
Voltage:	12 to 24Vdc
Current:	150mA
Composite Video Output:	1.0V pk-pk
Electro-magnetic Compatibility:	EN50081-1 Emission/EN500852-1 Immunity

ENVIRONMENTAL

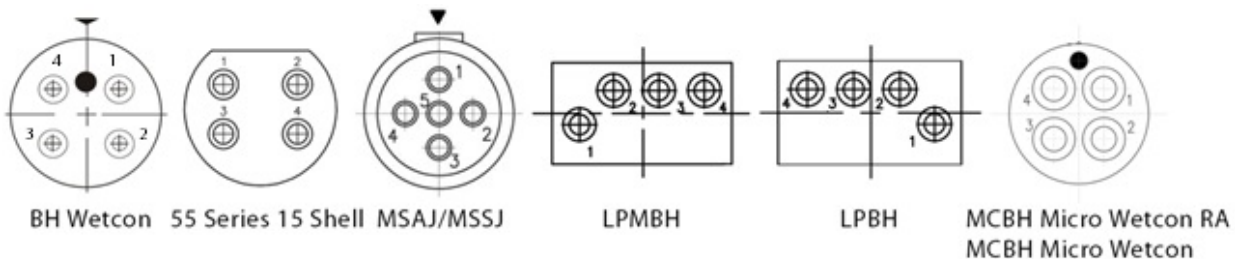
Water Depth:	4,000 or 6,000m Option
Storage Temperature:	-30 to +70°C
Operating Temperature:	-10 to +50°C (maximum 2 hrs in-air operation)
Shock:	3 Axis (operating), 30g Peak, 6ms Half-sine Pulse

OPTICAL

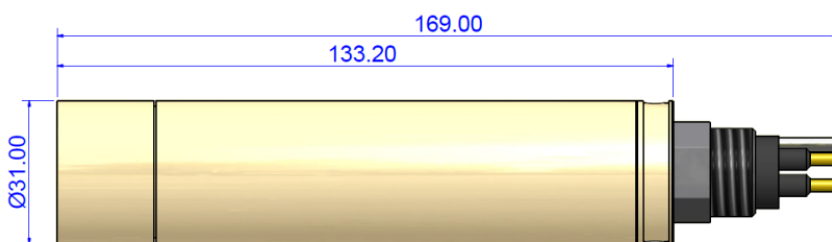
Lens:	4.3mm
Auto Iris:	CCD Iris 1/50th to 1/100,000th sec.
Focus:	Fixed 100mm to Infinity
Angle of View:	69° Diagonal in Air, 50° in Water (4.3mm lens)
Window:	Sapphire Glass
Lights:	Six High Intensity LEDs

MECHANICAL

Maximum Diameter:	31mm
Length:	133.2mm Excluding Connector
Weight in Air:	266g (when fitted with MCBH4M)
Weight in Water:	157g
Standard Housing:	Titanium
Standard Connector:	WETCON BH-4-MP or MCBH4M
Optional Connectors:	Large Selection of Connectors Available



(connector face patterns not to scale)



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