

L3C-720

Miniature Colour Camera

Features

- High Resolution Colour
720 TVL
- Low Light Sensitivity 0.1 Lux
- 65° Diagonal Angle of View
- 4,000 or 6,000 Metre Rated
Titanium Housing



Description

The Bowtech Products L3C-720 miniature high resolution underwater colour CCD camera, provides a low cost solution to general underwater viewing and observation.

The camera housing is manufactured with high quality titanium, 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 65° in water, through a sapphire window. The camera features built-in reverse polarity and surge protection.

The miniature, high quality Sony 1/3" 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.



L3C-720

Miniature Colour Camera



underwater vision specialists

Specification – L3C-720

ELECTRICAL

| | |
|---------------------------------|---|
| Resolution, Horizontal: | 720 TV Lines |
| Limiting Light Sensitivity: | 0.05 Lux @ f2.0 |
| Sensor Type: | 1/3" Sony CCD |
| Sensor Elements: | 1020 (H) x 508 (V) NTSC, 1020 (H) x 596 (V) PAL |
| Signal to Noise Ratio: | >50dB (AGC off) |
| Scanning: | 625 Line 50Hz PAL, 525 Line 60Hz NTSC |
| Voltage: | 12 to 24Vdc |
| Current: | 110mA 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: | -20 to +60°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: | 2.9mm f1.4 or 3.6mm f1.4 |
| Iris: | Electronic Shutter 1/60s to 1/100,000s. |
| 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 |
| Length: | 133.2mm Excluding Connector |
| Weight in Air: | 295g (when fitted with MCBH-4-MP) |
| Weight in Water: | 186g |
| Standard Housing: | Titanium |
| Standard Connector: | WETCON BH-4-MP or MCBH-4-MP |
| Optional Connectors: | Large Selection of Connectors Available |



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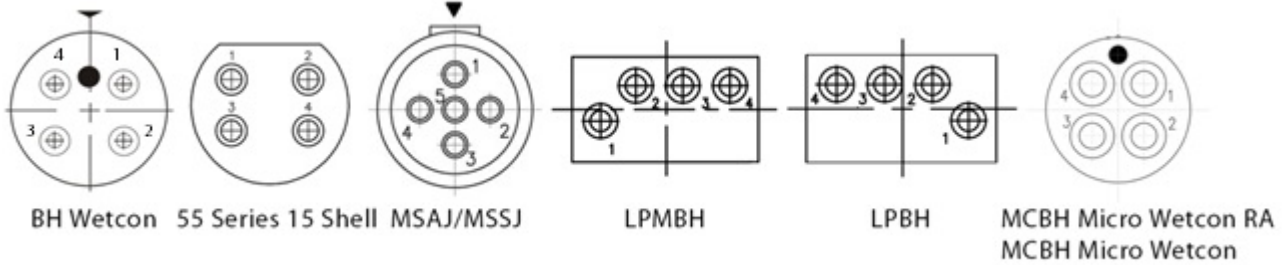
T +44 1224 772345
F +44 1224 772900

sales@bowtech.co.uk
www.bowtech.co.uk

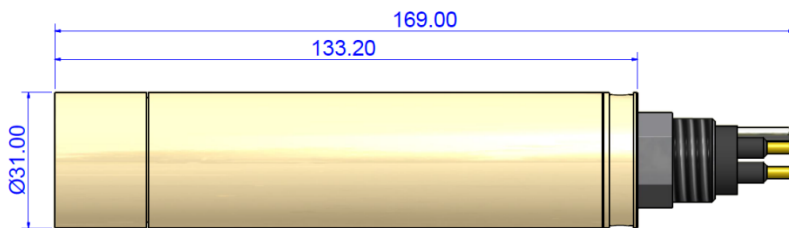
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(connector face patterns not to scale)



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