

LCC-700-L

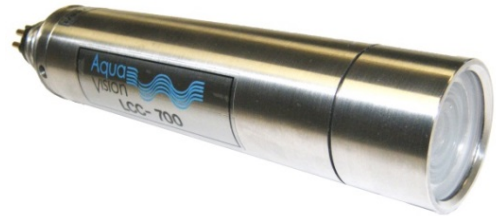
Miniature Monochrome Camera with Integral LEDs



underwater **vision** specialists

Features

- High Resolution Monochrome 700 TVL
- Low Light Sensitivity 0.01 Lux
- With 6 Integral High Intensity LEDs
- 50° Diagonal Angle of View
- 4,000 or 6,000 Metre Rated Titanium Housing



Description

The Bowtech Products LCC-700-L miniature high resolution monochrome underwater CCD camera (with six high intensity LEDs, with on/off control option), provides an extremely low cost solution to general underwater viewing and observation.

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 50° 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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Revision: 0

Specification – LCC-700-L

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

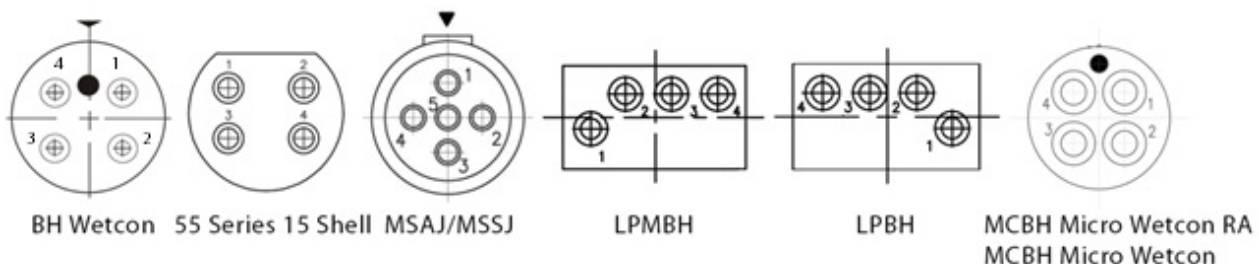
| | |
|---------------------------|-------------------------------|
| Water Depth: | 4,000 or 6,000m Option |
| Storage Temperature: | -30 to +70°C |
| Operating Temperature: | -10°C to +50°C |
| Shock 3 Axis (operating): | 30g Peak, 6ms Half-sine Pulse |

OPTICAL

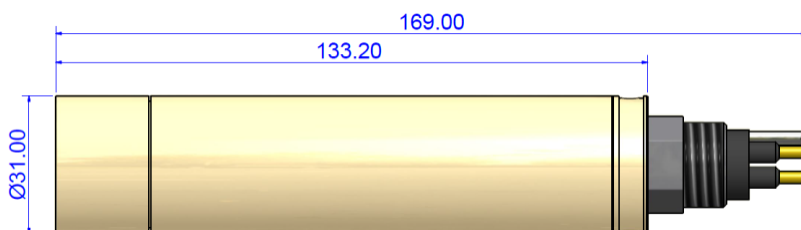
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|----------------|--|
| Lens: | 4.3mm |
| Auto Iris: | CCD Iris 1/50th to 1/100,000th sec. |
| Focus: | Fixed 100mm to Infinity |
| Angle of View: | 69° Diagonal in Air, 50° in Water (4.3mm lens) |
| Window: | Sapphire Glass |
| Lighting: | Six High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

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 (also available as a SS-316 – weight will vary) |
| Standard Connectors: | WETCON BH-4-MP or MCBH4M |
| Optional Connectors: | Large Selection of Connectors |



(connector face patterns not to scale)



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