

# 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
- 65° or 50° Diagonal Angle of View
- 1,000, 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 1,000 or 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° (1,000m rated) or 50° (4,000 or 6,000m rated) 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: 1

# LCC-700-L

## Miniature Monochrome Camera with Integral LEDs



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## 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:	1,000, 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

Lens:	1,000m 2.9mm f1.4; 4,000 or 6,000m 4.3mm
Auto Iris:	CCD Iris 1/50th to 1/100,000th sec.
Focus:	Fixed 100mm to Infinity
Angle of View:	1,000m version 92° Diagonal in Air, 65° in Water (2.9mm lens) 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 (or 128.3 for 1,000m rated option) 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

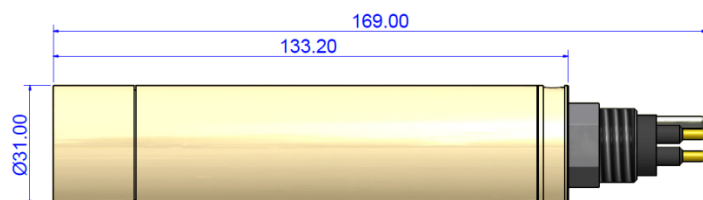


# LCC-700-L

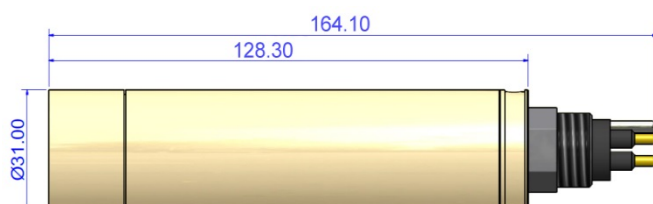
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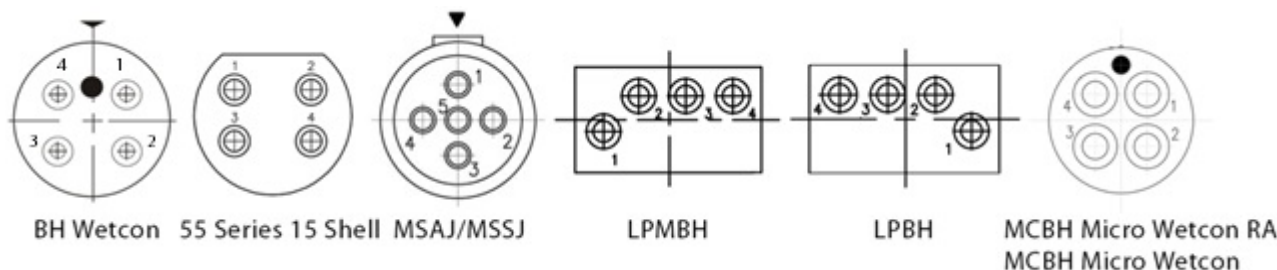


4,000 or 6,000m rated version



1,000m rated version

(connector face patterns not to scale)



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