

# LCC-720

## Miniature Monochrome Camera



underwater **vision** specialists

## Features

- High Resolution Monochrome 720 TVL
- Low Light Sensitivity 0.005 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 monochrome CCD camera, provides a low cost solution to general underwater viewing and observation.

The cameras are 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. It is the ideal camera for underwater viewing tasks.



© Bowtech Products Ltd 2014 All rights reserved.  
Bowtech Products Ltd reserves the right to change the above specifications without notice.

T +44 1224 772345  
F +44 1224 772900

sales@bowtech.co.uk  
[www.bowtech.co.uk](http://www.bowtech.co.uk)

Last updated 29<sup>th</sup> January 2014  
Revision: 0

# LCC-720

## Miniature Monochrome Camera



underwater **vision** specialists

## Specification – LCC-720

### ELECTRICAL

Resolution, Horizontal:	720 TV Lines
Limiting Light Sensitivity:	0.005 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 at 24Vdc)
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



© Bowtech Products Ltd 2014 All rights reserved.  
Bowtech Products Ltd reserves the right to change the  
above specifications without notice.

T +44 1224 772345  
F +44 1224 772900

sales@bowtech.co.uk  
[www.bowtech.co.uk](http://www.bowtech.co.uk)

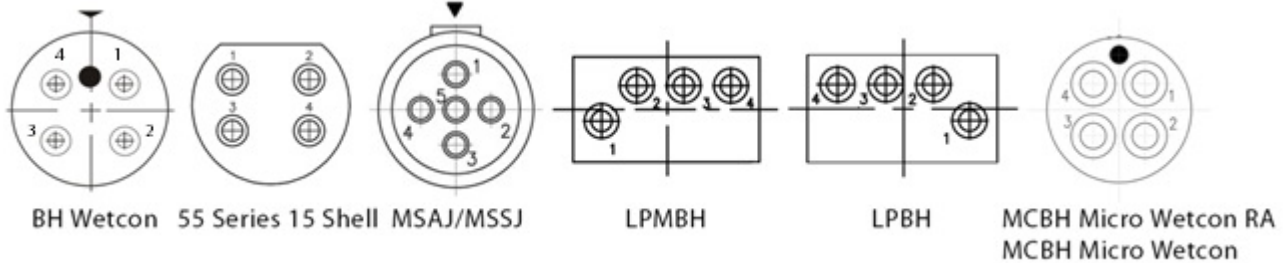
Last updated 29<sup>th</sup> January 2014  
Revision: 0

# LCC-720

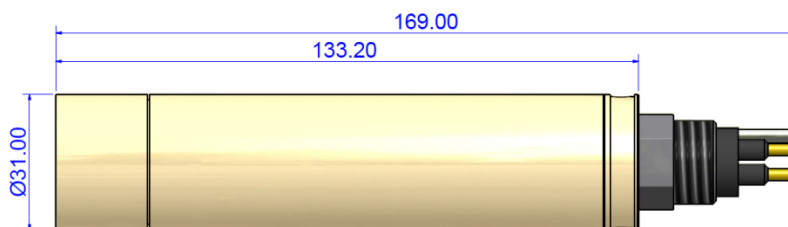
## Miniature Monochrome Camera



underwater **vision** specialists



(connector face patterns not to scale)



© Bowtech Products Ltd 2014 All rights reserved.  
Bowtech Products Ltd reserves the right to change the  
above specifications without notice.

T +44 1224 772345  
F +44 1224 772900

[sales@bowtech.co.uk](mailto:sales@bowtech.co.uk)  
[www.bowtech.co.uk](http://www.bowtech.co.uk)

Last updated 29<sup>th</sup> January 2014  
Revision: 0