

Teledyne Bowtech Limited

# L3C-HD

Miniature High Definition Camera

High Definition Small  
Enough for Diver Use



The Teledyne Bowtech L3C-HD is a low cost fixed focus miniature High Definition camera.

The camera housing is manufactured with high quality titanium, rated to either 1,000, 4,000 or 6,000 metres operating depth.

The camera is fitted with a fixed focus wide angle lens, giving an 67° diagonal angle of view in water, through a sapphire window which is highly scratch resistant and 99.8% optically pure. The camera features built-in reverse polarity and surge protection.

Output from the camera is via a wet mateable impedance matched connector for high integrity of the video signal.

The lightweight and compact L3C-HD camera is ideally suited to tooling, diving and ROV/AUV operations.



*Applications: ROV/AUV, Diver*

## PRODUCT FEATURES

- High Definition
- Fixed Wide Angle Focus
- 67° Diagonal Angle of View
- Compact Size
- Lightweight
- 6,000 Metre Rated Titanium Housing



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Miniature High Definition Camera



## TECHNICAL SPECIFICATIONS

### ELECTRICAL

Voltage:	12 to 36 Vdc
Current:	330 mA @ 12 V
Video Output:	1080i 50/60 fps 1.485 GBit/s HD SDi, 0.8 V <sub>peak to peak</sub> , 75 Ω

Tests show that when using Teledyne Bowtech HD cable assemblies the HD-SDi signal can be transmitted along cable lengths of up to 50 metres. Transmission distances may be reduced if this specialised cable is not used.

### ENVIRONMENTAL

Water Depth:	6,000 m
Storage Temperature:	-20 to +60°C (Humidity: 20% RH to 95% RH)
Operating Temperature:	-20 to +60°C (Humidity: 20% RH to 95% RH)
Shock:	3 Axis (operating), 30 g Peak, 6 ms Half-sine Pulse

### OPTICAL

Sensor:	1/2.7" CMOS, 10-bit
Active Pixels:	1920 x 1080
Angle of View:	67° Diagonal in Water
Lens:	3.6 mm
Sensitivity:	3300 mV/lux-sec
Dynamic Range:	69 dB
Window:	Sapphire Glass

### MECHANICAL

Maximum Diameter:	38 mm
Length (Excl Connector):	150 mm 6,000 m operating depth 147 mm 4,000 m operating depth 145 mm 1,000 m operating depth
Weight in Air:	525 g
Weight in Water:	335 g
Standard Housing:	Titanium
Standard Connector:	SUBCONN 75CXBH6M
Optional Connector:	Argus Saiv 04-03 BCR



Specifications subject to change without notice.  
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