

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 6,000 metres operating depth.

The camera is fitted with a fixed focus wide angle lens, giving an 83° 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
- 83° Diagonal Angle of View
- Compact Size
- Lightweight
- 6,000 Metre Rated Titanium Housing



# L3C-HD

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:	83° 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:	150 mm Excluding Connector
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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