

LCC or L3C-720

Miniature High Resolution Camera

720 TV lines available in monochrome or colour

The Teledyne Bowtech LCC-720 miniature high resolution underwater CCD camera, provides a low cost solution to general underwater viewing and observation.

The camera housing is manufactured from high quality Titanium fitted with a Sapphire glass window 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 a diagonal field view of 65° in water. 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, achieved by using 10 bit digital processing. It is the ideal camera for underwater viewing tasks.

The camera is also available with the option of a Balanced Line Driver (Balun) allowing the transmission of video over twisted pair cable.



Applications: ROV/AUV, Diver

PRODUCT FEATURES AND BENEFITS

- High definition colour or monochrome
- Low light sensitivity - 0.005 lux monochrome, 0.05 lux colour
- 65° diagonal angle of view
- 720 TV Lines
- Compact size
- Lightweight
- 1000m, 4000m or 6000m rated titanium housing



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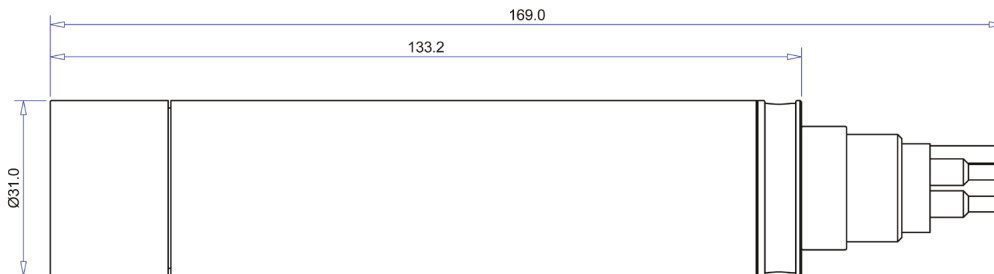
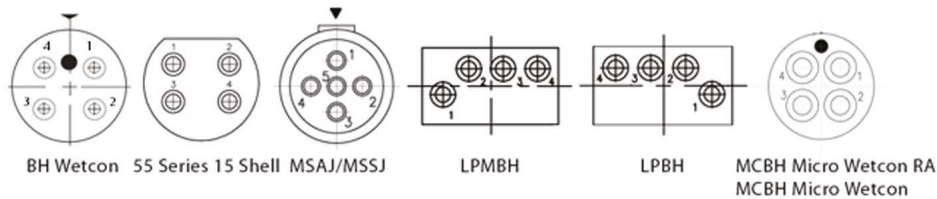
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TECHNICAL SPECIFICATIONS

Electrical	Resolution, Horizontal	720 TV lines
	Limiting Light Sensitivity	0.05 colour, 0.005 monochrome
	Sensor Type	1/3" Sony CCD
	Sensor Elements	1020 (H) x 508 (V) NTSC/EIA, 1020 (H) x 596 (V) PAL/CCIR
	Signal to Noise Ratio	>50 dB (AGC off)
	Scanning	625 line 50Hz PAL/CCIR, 525 line 60Hz NTSC/EIA
Environmental	Voltage	12 to 24 Vdc
	Current	110 mA maximum
	Composite Video Output	1 V pk-pk
Optical	Balanced Line Driver Option	Inclusion of Balun increases camera length to 142.2mm
	Depth Rating	1000m, 4000m or 6000m
	Storage Temperature	-20°C to +60°C
	Operating Temperature	-10°C to +50°C (maximum 2 hours in-air operation at 24 Vdc)
Mechanical	Shock	3 Axis (operating), 30g peak, 6ms half-sine pulse
	Lens	2.9mm or 3.6mm
	Iris	Electronic shutter 1/60s to 1/100000s
	Focus	Fixed 100mm to infinity
	Angle of View	91° diagonal in air, 65° diagonal in water
Mechanical	Window	Sapphire glass
	Dimensions	31mm (d) x 133.2mm (l) (excluding connector)
	Weight in Air	295g
	Weight in Water	186g
	Standard Housing	Titanium
	Standard Connector	WETCON BH-4-MP or MCBH-4-MP
Optional Connector	Large selection of connectors available	

Connector Face Patterns not to scale



Specifications subject to change without notice.
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