



Teledyne Bowtech Limited

Divecam-720-AL



Miniature High Resolution Camera

720 TV Lines Available in
Monochrome or Colour

The Teledyne Bowtech DIVECAM-720-AL miniature high resolution underwater CCD camera, provides a low cost solution to shallow underwater viewing and observation to either 100 or 1,000 metres.

The camera has a high quality hard anodised Aluminium housing fitted with a fixed focus wide angle lens giving a diagonal field view of 65° in water.

With an acrylic window, the camera is rated to 100 m operating depth, the deeper 1,000 m version has a Sapphire glass window.

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.



Applications: ROV/AUV, Diver

PRODUCT FEATURES

- High Resolution 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
- 100 or 1,000 m Rated Aluminium Housing



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Miniature High Resolution Camera



TECHNICAL SPECIFICATIONS

ELECTRICAL

Resolution, Horizontal:	720 TV Lines
Limiting Light Sensitivity:	0.05 Lux Colour 0.005 lux 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 50 Hz PAL/CCIR, 525 Line 60 Hz NTSC/EIA
Voltage:	12 to 24 Vdc
Current:	110 mA Maximum
Composite Video Output:	1.0 V pk-pk

ENVIRONMENTAL

Water Depth:	100 or 1,000 m
Storage Temperature:	-20 to +60°C
Operating Temperature:	-10 to +50°C
Shock:	3 Axis (operating), 30 g Peak, 6 ms Half-sine Pulse

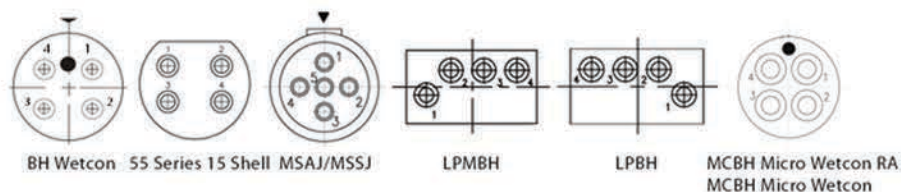
OPTICAL

Lens:	2.9 mm or 3.6 mm
Auto Iris:	Electronic Shutter
Focus:	Fixed 100 mm to infinity
Angle of View:	91° Diagonal in Air, 65° Diagonal in Water
Window:	Acrylic (100 m) or Sapphire Glass (1,000 m)

MECHANICAL

Maximum Diameter:	31 mm
Length:	128.3 mm Excluding Connector
Weight in Air:	233 g
Weight in Water:	149 g
Standard Housing:	Hard Anodised Aluminium
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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