SURVEYOR-HD PRO Ultra-wide Angle Colour Zoom Camera



underwater vision specialists

Features

- High Definition 1080p
- Fully Geometric and Chromatic Aberration Water Corrected Optics
- Component, HD-SDI or HD-SDI
 Over Fibre Output
- 100° Ultra-wide Diagonal Angle of View
- 4,000 or 6,000 Metre Rated Titanium Housing



Description

The Bowtech Products SURVEYOR-HD PRO ultra-wide angle underwater HDTV camera is designed to provide the viewer a greater angle of view, from the standard Surveyor HD, whilst remaining compact and very competitively priced. The camera is ideal for ROV inspection tasks, scientific observation and broadcast applications. Video output is available as HD or HD-SDI over fibre.

Video output is available as component (Y/Pb/Pr), utilising standard connectors or HD-SDI on hybrid 75 Ω coaxial or fibre optic connectors, a composite video output is also available.

The camera is available in a variety of control formats, including the Bowtech Products' GUI, which facilitates

the control of all features including white balance, auto tracking and back light compensation, which can be switched on or off using the GUI.

Excellent images are obtained, through the fused silica hemispherical window and the camera is ideal for overall scenes and close-up inspection. The camera uses a Bluetooth tablet for control setup. The optics are fully corrected for geometric and chromatic aberration.

The camera is housed within a 4,000 metre rated titanium housing, with a 6,000 metre option and has a fused silica hemispherical window.



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Specification – SURVEYOR-HD PRO

ELECTRICAL

Image Size:	1920 H x 1080 V, 1280 H x 720 V, 720 V x 576
Sensor Type:	1/2.8-Type Exmor CMOS
Limiting Scene	
Illumination:	1.7 Lux
Signal to Noise Ratio:	>50dB
Power Consumption:	12V to 24Vdc
Current:	300mA
HD Video Output:	Component, HD-SDI or HD-SDI Over Fibre Out
HD Format:	1080p/59.94, 1080i/50, 1080p/29.97, 1080p/25, 720p/59.94, 720p/50, 1080p/50,
	1080p/59.94
SD Video Output:	PAL & NTSC Composite
Control Options:	Single Wire Tristate, Two Wire Bipolar, RS-232 or RS-485 Input, Bluetooth Tablet Control

ENVIRONMENTAL

Water Depth: Storage Temperature: **Operating Temperature:** Shock 3 Axis: (operating) Vibration 3 Axis: (operating) 4,000m (13,123ft) or 6,000m (19,685ft) Option -20 to +60°C -5 to +60°C 30g Peak, 6ms Half-sine Pulse 10g, 20 to 150Hz

OPTICAL

Optical Zoom: Iris: Focus Control: Diagonal Angle of View in Air: Diagonal Angle of View in Water: **Fused Quartz Hemisphere** Window:

30:1 4.6mm to 138.0mm focal length Automatic, f1.6 to Close 10mm to Infinity (wide), 1500mm to Infinity (zoom) 100° 100°

MECHANICAL

Housing Diameter: Length: Weight in Air: Weight in Water: **Standard Housing:** Standard Connector:

138.0mm (5.43") Front Retainer 232.62mm (9.16") Excluding Connector 5.5kg (12lbs) 2.56kg (5.65lbs) Titanium Alloy Grade 5 6AL-4V ASTM B3 48 Large Selection of Connectors Available



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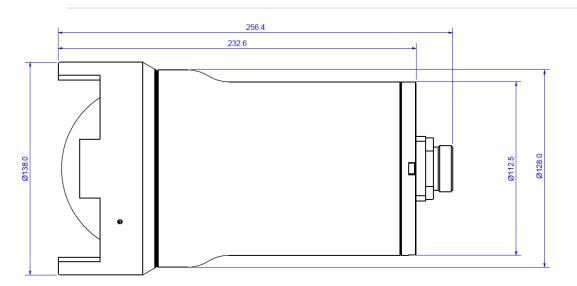
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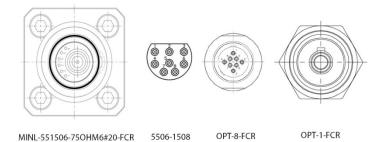


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Specification



Connector Options



(connector face patterns not to scale)



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