

SURVEYOR-HD

High Definition Colour Zoom Camera



underwater **vision** specialists

Features

- 10:1 Optical Zoom
- High Resolution 800 TVL
- 1080i/720p HD
- Component Output
- 45° Diagonal Angle of View
- 4,000 or 6,000 Metre Rated Titanium Housing



Description

The Bowtech Products SURVEYOR-HD high definition underwater colour zoom camera, utilises Sony's latest block camera incorporating 1/3 inch HD CMOS CCD giving exceptional picture quality, 10:1 optical zoom lens, as well as horizontal resolution of 800+ TV lines. Standard video output is component.

A unique feature of this camera, apart for the exceptional picture quality, is its size. The camera has a titanium 4,000 or 6,000 metre rated housing, with optically clear sapphire window. The camera is smaller than the standard underwater colour zoom camera and therefore ideal for mounting on all ROVs.



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Revision: 1

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Specification - SURVEYOR-HD

ELECTRICAL

Resolution, Horizontal:	800 TV Lines
Pixels:	1920 H x 1080 V
Sensor Type:	1/3" HD CMOS
Sensitivity (limiting):	0.1 Lux (faceplate)
Sensitivity:	11 Lux Typical @ f1.8, 50 IRE
Limiting Scene Illumination:	1.5 Lux with 100% Reflection
Signal to Noise Ratio:	>50dB
Voltage:	11-30Vdc
Current:	400mA Typical
HD Video Output:	Component Y/Pb/Pr
HD Format:	1080i 50 or 60 fps, 720p 50 or 60 fps (user selectable)
Video Aspect Ratio:	16:9 or 4:3 (user selectable)
Electro-magnetic Compatibility:	EN50081-1 Emission/EN50082-1 Immunity
Control Options:	Single Wire Tristate, Two Wire Bipolar, RS-232 Input
Remote Control	IR Remote

ENVIRONMENTAL

Water Depth:	4,000 or 6,000m (20,000 ft)
Storage Temperature:	-40 to +85°C
Operating Temperature:	-5 to +50°C
Shock 3 Axis: (operating)	30g Peak, 6ms Half-sine Pulse
Vibration 3 Axis: (operating)	10g, 20-150Hz

OPTICAL

Optical Zoom:	10:1 5.1mm to 51.0mm Focal Length
Digital Zoom:	4x (40x with optical zoom) Deactivated as Standard
Iris:	Automatic, f1.6 to Close
Focus Control:	Front Window to Infinity (wide), 1500mm to Infinity (zoom)
Angle of View:	61° Diagonal in Air, 45° Diagonal in Water
Window:	Sapphire Glass

MECHANICAL

Housing Diameter:	98.4mm (3.87") Front Retainer
Length:	172mm (6.77") Excluding Connector
Weight in Air:	2.7kg (5lbs)
Weight in Water:	1.4kg (3.08lbs)
Standard Housing:	Titanium Alloy Grade 5 6AL-4V ASTM B3 48
Standard Connector:	5506-1508



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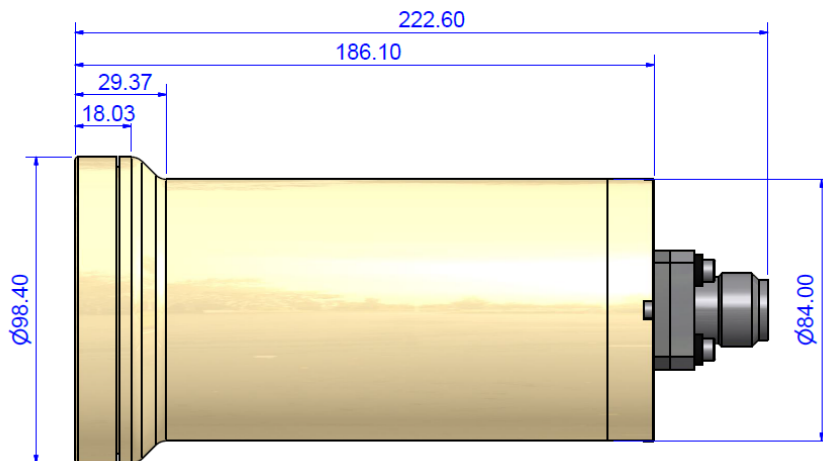
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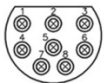


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Specification



Connector



5506-1508

(connector face patterns not to scale)



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