

SURVEYOR-HD PRO

Ultra-wide angle colour zoom camera

Features

- High Definition 1080p
- 100° Ultra-wide Diagonal Angle of View
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- 4,000 or 6,000 Metre Rated Titanium Housing
- Fully geometric and chromatic aberration water Corrected Optics



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 75Ω 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.

Specifications

Product	SURVEYOR-HD PRO Ultra-wide angle colour zoom camera
Country of origin	USA
Manufacturer	Teledyne Marine

Electrical specifications

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

Optical

Optical zoom	30:1 4.6mm to 138.0mm focal length
Iris	Automatic, f1.6 to Close
Focus control	10mm to Infinity (wide), 1500mm to Infinity (zoom)
Diagonal angle of view in air	100°
Diagonal angle of view in water	100°
Window	Fused Quartz Hemisphere

Mechanical

Housing diameter	138.0mm (5.43") Front Retainer
Length	232.62mm (9.16") Excluding Connector
Weight in air	5.5kg (12lbs)
Weight in water	2.56kg (5.65lbs)
Standard housing	Titanium Alloy Grade 5 6AL-4V ASTM B3 48
Standard connector	Large Selection of Connectors Available