SURVEYOR-HD

High Definition Colour Zoom Camera



underwater vision specialists

Features

- 10:1 Optical Zoom
- High Resolution 800 TVL
- 1080i/720p HD
- Component, HD-SDI or HD-SDI Over Fibre
- 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; however HD-SDI and fibre output are also available.

A unique feature of this camera, apart for the exceptional picture quality, is its size. The camera has a titanium 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.





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-SDI or HD-SDI Over Fibre Out HD Format: 1080i 50 or 60 fps, 720p 50 or 60 fps (user selectable)

SD Video Output: PAL & NTSC Composite
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

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

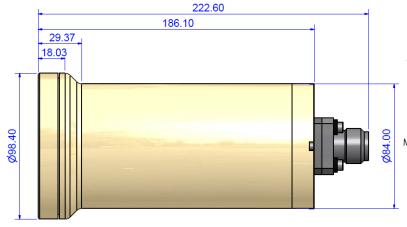
Window: Sapphire Glass

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)

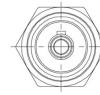
Standard Housing: Titanium Alloy Grade 5 6AL-4V ASTM B3 48
Standard Connector: Large Selection of Connectors Available











MINL-551506-75OHM6#20-FCR

5506-1508

OPT-8-FCR

OPT-1-FCR

connector face patterns not to scale)





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