SURVEYOR-SD-100 Colour Zoom Camera



underwater vision specialists

Features

- 36:1 Optical Zoom
- 550 HTV Lines
- Wide Dynamic Range
- 54.2° Diagonal Angle of View
- 100 Metre Rated Stainless Steel Housing
- Low Light Sensitive



Description

The Bowtech Products SURVEYOR-SD-100 underwater colour zoom camera, utilises Sony's latest ExView HAD™ CCD technology, delivering exceptional picture quality, with a 36:1 optical zoom lens, as well as a horizontal resolution of 550 TV lines, all within a 100 metre rated, high quality stainless steel housing, with a non-browning fused silica Spectrosil® window.

This camera is ideal for nuclear inspection applications. The 36:1 optical zoom allows the SURVEYOR-SD-100 to be located further away from the subject being viewed, compared to traditional cameras. This reduces the effects of radiation, resulting in an increased camera life.

One of the many unique features of this camera is the advanced backlight compensation technology, which dramatically improves the camera's dynamic range, resulting in clear image reproduction in extreme high-contrast environments, known as wide dynamic.

The camera captures the same image twice, first with a normal shutter speed and then with a higher shutter speed. The dark areas are captured at normal shutter speed and the bright areas are captured at high shutter speed. These are then combined into one image, using an advanced DSP LSI, thus clearly reproducing high-contrast images of the original scene.





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Specification - SURVEYOR-100

ELECTRICAL

550 TV Lines PAL/NTSC Resolution, Horizontal: 1/4" Sonv EX-View HAD™ CCD Sensor Type: Minimum Illumination: 1.4 Lux Typical @ f1.6, 50 IRE

Limiting Light Sensitivity: 0.04 Lux (faceplate)

Wide Dynamic Range: On/Off >50dB Signal to Noise Ratio:

625 Line 50Hz PAL, 525 Line 60Hz NTSC Scanning:

Voltage: 11-30Vdc

Current: 400mA Maximum

Composite Video Output: 1.0V pk-pk, Y/C (S-Video) Available EN50081-1 Emission/EN50082-1 Immunity Electro-magnetic Compatibility:

Single Wire Tristate, Two Wire Bipolar, RS-232 Input, USB, RS-485 **Control Options:**

Switched Internally Long Line Compensation:

ENVIRONMENTAL

100m Water Depth: Storage Temperature:

-20 to +60°C Operating Temperature: -5 to +50°C

30g Peak, 6ms Half-sine Pulse Shock 3 Axis: (operating)

10g, 20-150Hz Vibration 3 Axis: (operating)

OPTICAL

36:1 3.4mm to 122.4mm Focal Length Optical Zoom:

12x (432x with Optical Zoom) Deactivated as Standard Digital Zoom:

Automatic, f1.6 to Close

Front Window to Infinity (wide), 1500mm to Infinity (zoom) Focus Control:

Angle of View: 72.25° Diagonal in Air, 54.2° Diagonal in Water Spectrosil® (non-browning fused silica) Window:

MECHANICAL

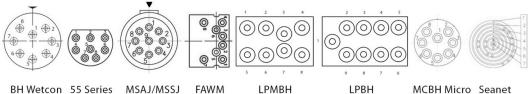
88mm (3.46") Front Retainer Housing Diameter:

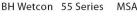
133.9mm (5.4") Excluding Connector Length:

2.75kg (6lbs) Weight in Air: 1.75kg (3.85lbs) Weight in Water: 316/304 Stainless Steel

Standard Housing:

Large Selection of Connectors Available Standard Connector:





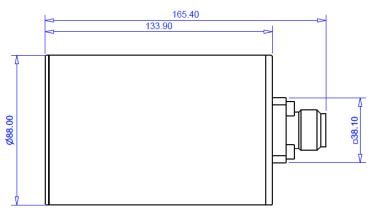


MSAJ/MSSJ

LPMBH

LPBH

Wetcon



(connector face patterns not to scale)





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