



## **SURVEYOR COLOUR ZOOM CAMERA**

**36:1 Optical Zoom**

**540 HTV lines**

**Wide Dynamic Range**

**Wide Angle**

**4000m Titanium Housing**

**Low Light Sensitive**

Bowtech's Surveyor colour zoom camera utilises Sony's latest ExView HAD™ CCD technology delivering exceptional picture quality with a 36:1 optical zoom lens and a 12x digital zoom, as well as a horizontal resolution of 540 TV lines, all within a 4000m high quality Titanium housing with a sapphire window.

One of the many unique features of this camera is the advanced backlight compensation technology that 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 the 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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# SURVEYOR

## **ELECTRICAL**

Resolution, Horizontal:	540 TV Lines PAL/NTSC
Sensor Type:	1/4" Sony EX-View HAD™ CCD
Minimum Illumination:	1.4 Lux typical @ f1.6, 50 IRE
Limiting Light Sensitivity:	0.04 Lux (faceplate)
Wide Dynamic Range:	On/Off
Signal to Noise Ratio:	>%)dB
Scanning:	625 Line 50Hz PAL 525 Line 60Hz NTSC
Power:	11-30DC
Current:	400ma maximum
Composite Video Output:	1.0V pk-pk Y/C (S-Video) available
Electro-magnetic Compatibility:	EN50081-1 Emission/EN50082-1 Immunity
Control Options:	Single Wire Tristate Two Wire Bipolar RS-232 input Switched internally
Long Line Compensation:	

## **ENVIRONMENTAL**

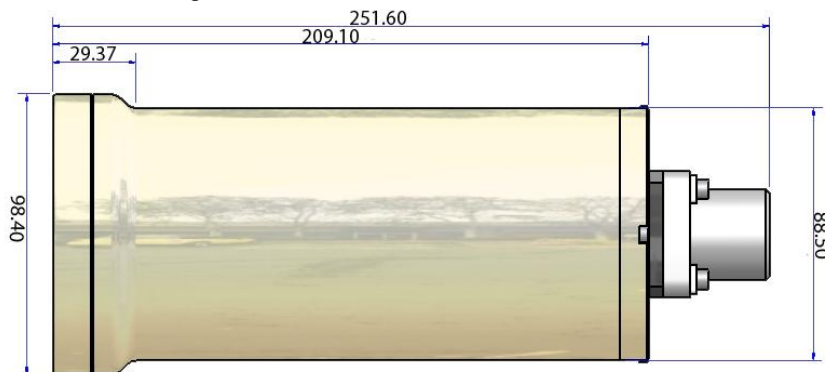
Water Depth:	4000 metres (13,000 ft) 6000 metres (20,000 ft) optional
Temperature (Storage)	-20°C - +60°C
Temperature (Operating):	-5°C - +50°C
Shock 3 axis (Operating):	30g peak, 6mS half-sine pulse
Vibration 3 axis (Operating):	10g, 20-150HZ

## **OPTICAL**

Optical Zoom:	36:1 3.4mm to 122.4mm focal length
Digital Zoom:	12 x (432x with optical zoom) deactivated as standard
Iris:	Automatic, f1.6 - close
Focus Control:	Front window to infinity (wide) 1500mm to infinity (zoom)
Angle of View:	103.2° Diagonal in Air 77.4° Diagonal in Water
Window:	Sapphire Glass

## **MECHANICAL**

Housing Diameter:	98.4mm (3.87") Front Retainer
Length:	209.1 mm (8.27") excluding connector
Weight in Air:	2.85 kg (6.3lbs)
Weight in Water:	1.52 kg (3.3lbs)
Standard Housing:	Titanium Alloy Grade 5 6AL-4V ASTM B3 48
Standard Connector:	Large selection of connectors available



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