

# Surveyor HD-Pro II

## Subsea Wide-Angle Colour Zoom HD Video Camera

The Bowtech Surveyor HD-Pro II is a premium wide-angle, high-definition (HD) video camera. The powerful 30:1 zoom feature is great for extremely detailed video inspection work with its close-up video capabilities.

The HD-Pro benefits from a 100° wide viewing angle along with a very comprehensive range of light sensitivity controls, including manual and automatically adjustable focus and iris settings, white balance, auto tracking and back light compensation. The advanced feature set comes complete with a wide dynamic range to maximise the camera's video quality in a low-light environment.

This camera is rated to 6,000m with an optically water-corrected hemispherical window made of fused silica. The titanium housing is offered with a choice of subsea connectors, wiring configurations and HD-SDI over coax or fibre optic video output.

The adjustable functions offered with this feature-packed camera can be controlled by a single wire/tristate/Bluetooth or via a Bowtech GUI software (USB stick) and user selectable RS-232/RS-485 coms interface connected either to a laptop or PC.



This premium quality, high-performance subsea camera is ideal for detailed colour inspection and scientific observation tasks and is part of a family of products that produces detailed video images for use on many different types of subsea applications and vehicles across the world's oceans.

Please contact a member of our sales team to discuss your specific requirements when ordering this camera, including connector, and wiring configuration.

### Product features and benefits

- Easy to use high-specification HD camera ideal for subsea video inspection work
- Durable, high-quality 6000m rated titanium housing
- Selectable HD formats for different output requirements
- 30:1 optical zoom feature for great close-up details
- HD over coax or fibre optic video output options
- Wide-angle water-corrected optics for accurate post-processing photogrammetry work



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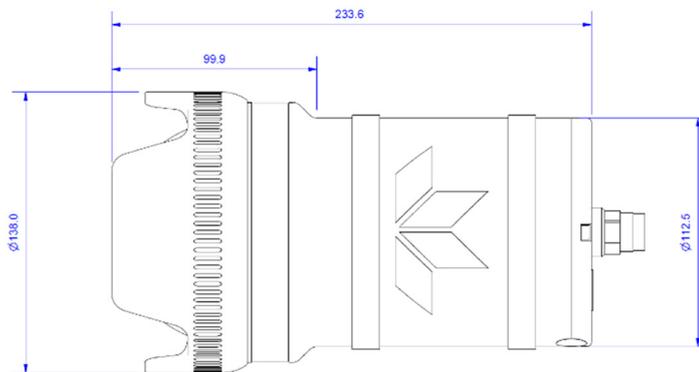
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### TECHNICAL SPECIFICATIONS

<b>Electrical:</b> Nominal voltage	24Vdc (11Vdc to 30Vdc)
Current at nominal voltage	0.4A
Power	9.6W
Video output	3GHD-SDI over coax, 3GHD-SDI over fibre
Connectors	Contact for options
Control method	RS-232, RS-485, Tristate, 2-wire bipolar, Bluetooth (not for subsea use)
<b>Optical:</b> Sensor	1/2.8"
Resolution	1920 x 1080 pixels (max.)
Sensitivity	0.009lx Min. illumination. In the case of ICR-OFF, 1/30 sec, 50%, High-sensitivity mode ON (AUTO)
Active pixels	2.13MP
Signal to noise ratio	>50dB
Lens	Wide/tele: 4.3-129.0mm @ F1.6-F4.7
Optical zoom	30:1, 12x digital (360x with optical zoom combined)
Angle of view in water	Diagonal: 100°, horizontal: 92°, vertical: 61°
<b>Mechanical:</b> Housing/window	Titanium grade 5/fused silica
Dimensions	Ø138mm (retainer), Ø112.5mm (body) x 232.6mm length (excl. connector)
Weight in air/water	5.4kg/2.5kg
<b>Environmental:</b> Water depth rating	6000m
Storage temperature	-20 to +60°C
Operating temperature	-5 to +50°C
Shock	3 axis (operating), 30g peak, 6ms half sine pulse
Vibration	3 axis (operating), 10g, 20 to 150Hz
EMC	BS EN IEC 61000-6-4:2019, BS EN IEC 61000-6-2:2019, BS IEC 60533:2015
RoHS	Directive 2011/65/EU



Product Dimensions (for reference only)