Tritech SeaSpy

Colour CCD Underwater Camera

Features

- Standard depth rating of 3,000 metres
- Built in LED lighting
- Highly resistant to shock and vibration
- Low voltage DC power supply
- LED on/off control
- Wide angle version available

Applications

- ROV inspection work
- ROV tooling package monitoring
- Hazardous environments
- Harbour, river and canal inspection
- Police, customs and emergency services
- On-line industrial machinery inspection
- Restricted access areas

The Tritech SeaSpy underwater video camera is a compact, high resolution, full colour camera with integral low voltage lighting.

Built to survive in the harsh underwater inspection environment the SeaSpy has been designed to be compact and rugged while at the same time provide a high quality colour picture.

Providing a high-resolution colour picture the SeaSpy incorporates an integral low voltage LED light array. This integral lighting provides a camera that is well suited for close proximity inspection work where little or no lighting is available. Electronic control of the lighting allows the camera to be operated with or without the LED's thus ensuring the operator can select the optimum operating configuration.

The SeaSpy has an internal focus adjustment that allows the focal range to be set between 20mm and infinity.

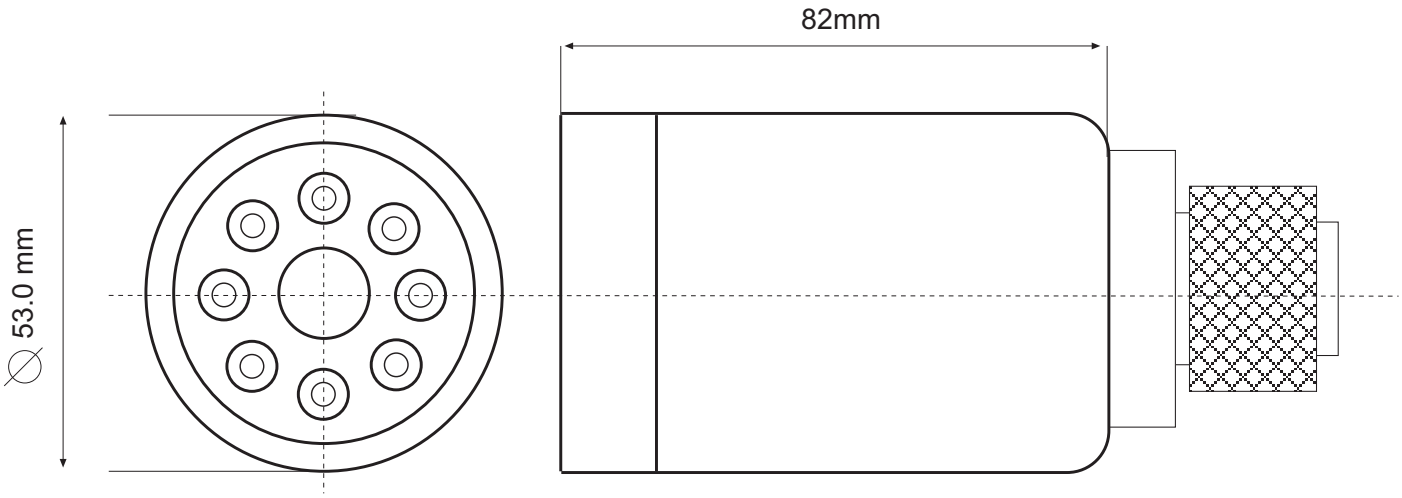
The camera power supply board can accept 11-30VDC and provides excellent protection for the efficient operation of the camera module. Fitted with an integral video line driver the SeaSpy compensates attenuation of the video signal when used over various umbilical lengths.

As with all of the Tritech cameras the SeaSpy is fitted with a high quality water corrected viewport to optimise the picture quality. This water corrected viewport results in a camera that provides a crisp picture during close proximity viewing in murky water.

SeaSpy unit

SeaSpy in hand

Specifications



Electronics

Sensor	1/3" Interline Transfer CCD
Resolution	>480TV Lines
Sensitivity	0.1 Lux with no illumination
Iris (PAL)	50Hz 1/50 to 1/100,000 sec
Iris (NTSC)	60Hz 1/60 to 1/100,000 sec
Signal to Noise Ratio	>50dB (AGC off)
Video Output	1.0V p-p Composite, 75ohms unbalanced
Scanning System (PAL)	CCIR, 50Hz, 625 lines
Scanning System (NTSC)	RS170, 60Hz, 525 lines
Video Line Drive Capability	220m with good quality coax
Camera Control	LED control via Analogue Input
Zoom	N.A.
Focus	Internally Adjustable
Illumination	Ring of 8 LEDs (3.2 Candela)
Voltage	11 to 30VDC
Current	260mA nominal

Optics

Lens	4.3mm, F2.0
Focal Length	20mm to Infinity
Field of View (Diagonal)	62°

Environmental

Storage Temperature	-30°C to +70°C
Operating Temperature	-10°C to +40°C
Depth Rating	4000m

Mechanical

Housing Material	Stainless Steel
Sizes	Refer to drawing
Weight in Air	0.65kg
Weight in Water	0.45kg
Viewport	Acrylic Water Corrected
Connector	Tritech 6 Pin

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