



Typhoon

Colour zoom camera

Features

- High Resolution 470 Horizontal TV Lines
- High Sensitivity 0.1 lux
- PAL or NTSC
- Water Corrected Viewport
- Long Line Amplifier
- 3000m Depth Rated

Applications

- Work class ROV main colour zoom camera
- Diver colour camera
- Underwater survey, security and surveillance



The Tritech range of underwater video products offers a complete spectrum of high specification, high performance cameras from low cost black and white inspection cameras to broadcast quality colour zoom cameras.

The Typhoon camera from Tritech encompasses a 22:1 auto focus zoom lens within a 3000m housing. Manual Focus and Zoom may be controlled using conventional Analogue signals or via the integrated RS232 Interface.

The 1/4 Type CCD Sensor provides a high-resolution 470 Horizontal TV Line colour picture. When operating under low light conditions the shutter speed reduces to provide a light sensitivity of 0.1 lux.

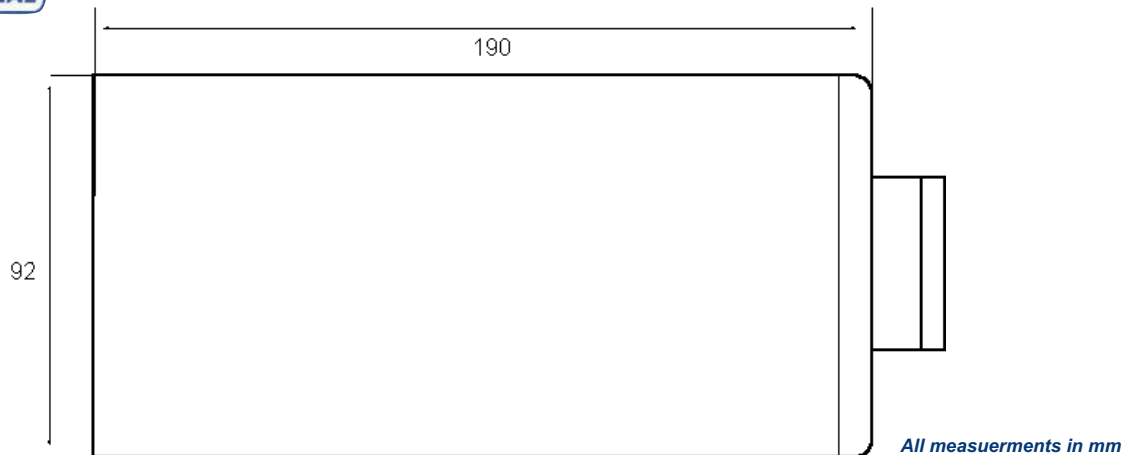
Commonly overlooked in underwater cameras is the importance of a high quality view port. The Acrylic view port used on Tritech cameras has similar refractive properties to that of water providing a sound basis for the use of a plano-concave view port, which is the preferred lens type for deep water rated lens.

This plano-concave view port reduces the effects of refraction and also removes the effect of chromatic aberration. This results in a camera that provides a crisp picture during close proximity viewing in murky water.

Supplied with a switchable Long Line Amplifier the Typhoon is suitable for use with short, medium and long umbilicals.



Specifications



Electronics

Sensor	1/4" Interline Transfer CCD
Resolution	>470TV Lines
Sensitivity	0.1 Lux
Iris (PAL)	Auto
Iris (NTSC)	Auto
Signal to Noise Ratio	>50dB
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	1500m with good quality coax
Camera Control	Analogue/RS232C
Zoom	x22 Zoom (Typical useable x14)
Focus	Auto/Manual
Illumination	N.A.
Voltage	11- 30VDC
Power	9 WATTS 24VDC

Optics

Lens	4-88 mm, F1.6
Focal Length	0.2m to infinity
Field of View (Diagonal)	47° (wide), 2.2° (telephoto)

Environmental

Storage Temperature	-10°C to +50°C
Operating Temperature	0°C to +40°C
Depth Rating	3000m

Mechanical

Housing Material	Hard Anodised Aluminium
Sizes	Refer to drawing
Weight in Air	1.9kg
Weight in Water	0.7kg
Viewport	Acrylic Water Corrected
Connector	Tritech, Burton, Tronic (please specify)

"This camera is not designed for use in a helium/oxygen atmosphere"

All specifications are subject to change in line with Tritech's policy of continual product development.

Ref: EDS-CAM-006.5



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