



GENERAL DESCRIPTION

The Tritech SeaSpy is a compact, high resolution, full-colour video camera with integral low voltage lighting. It uses the very latest high power LED technology to provide a rugged, compact camera and lighting solution that has a wide variety of applications, both underwater and in other harsh environments. SeaSpy's primary use is for inspection duties on workclass and inspection ROV's. The camera is ideal for use in an ROV manipulator. It can be held easily in the jaws of the manipulator, and is very resistant to vibration and shock.

Features

- Standard depth rating of 3000m
- Built in LED lighting
- Highly resistant to shock and vibration
- Single low voltage DC power supply
- LED ON/OFF control

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



TRITECH SEASPY CAMERA

SPECIFICATIONS

Mechanical

Diameter	53mm
Length excluding connector	82mm
Pressure housing	Stainless steel (Aluminium optional)
Connector	Tritech 6 pin
Weight in Air	0.65kg
Weight in Water	0.45kg

Video

Pick up element	1/4 inch Interline
Transfer	CCD Image Sensor
Number of pixels	537 H x 597 V
Number of sensing pixels	500 H x 582 V
Horizontal resolution lines	More than 320 TV
Sync system	Internal
Scanning	2:1 interlace
Video output	PAL 1 Vpp 75 Ohms (unbalanced)
LLA	Up to 200m

Environmental

Operating temperature	-10 0 C to +40 0 C
Storage temperature	-30 0 C to +70 0 C
Operating depth	3000m standard (optional depths available)

Electrical

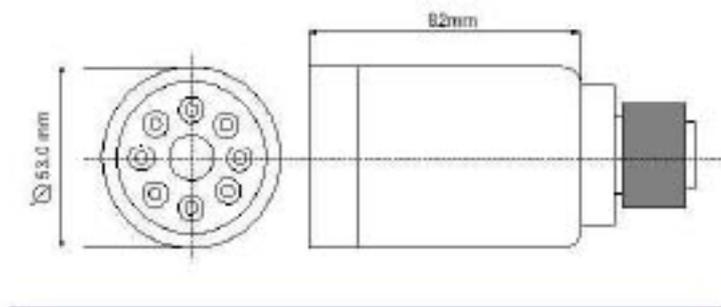
Power supply	11V minimum - 30V
3.5 W	
Solid state light	Ring of 8 LED (3.2 candela)

Optical

Lens (water corrected)	3.8 mm F2
Angular view	40 0 V x 51 0 H
Internal Adjustable Focus	2cm to infinity

Sensitivity

Minimum illumination	5 Lux (F2.0)
S/N ratio	More than 46db (AGC Off)
Automatic Gain Control (AGC)	More than 18 db



The camera is shown here with battery packs, video recorder with integral colour displays and telescopic deployment pole. This provides a portable, self contained inspection package for security, customs or hazardous area machinery monitoring.