## TRITECH OCEANSPY CAMERA



### GENERAL DESCRIPTION

The Tritech OceanSpy underwater video camera incorporates the very latest in colour CCD technology. Built to survive in the harsh underwater inspection environment the OceanSpy has been designed to be as small as possible while at the same time provide a high quality colour picture. The OceanSpy 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. External control of the lighting allows the camera to be operated with or without the LEDs thus ensuring the operator can select the optimum operating configuration. The external focus adjustment capability of the OceanSpy allows adjustments to be made without opening the camera therefore allowing you to alter the focus while operating the camera at depth. The camera power supply board can accept 12-30VDC and provides excellent protection for the efficient operation of the camera module. Fitted with an integral video line driver the OceanSpy compensates attenuation of the video signal when used over various umbilical lengths. As with all of the Tritech cameras the OceanSpy 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.

#### **Features**

- High resolution colour CCD module
- Very compact unit only 10 cm in length, diameter 3.4 cm
- Low power consumption
- Unique external focus adjustment and LED on/off switch
- A water corrected port is fitted to optimise the picture quality.
- Standard depth rating of 3000m
- Extremely robust will survive in the harshest environment

#### **Applications**

- Subsea inspection
- Tooling
- Diver hand-held
- General purpose
- Down hole
- Internal pipe inspection
- AUV video suites



# RITECH OCEANSPY CAMER

#### **SPECIFICATIONS**

Mechanical

Diameter Length excluding connector

Pressure housing

Connector Weight in Air

Weight in Water

Video

1/4 inch Interline Pick up element 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 Internal

Sync system Scanning Video output

Video Line Drive Capability

Camera Control

Zoom

Focus

Environmental

Operating temperature Storage temperature Operating depth

34mm 100mm Stainless steel

(Aluminium optional) Subcon MCBH3M

0.5kg 0.4kg

**Optical** 

Angular view in air Internal Adjustable Focus

Minimum illumination 2:1 interlace

PAL 1 Vpp 75 Ohms (unbalanced)

1000m with good quality

coax

LED control via External Adjustment

N.A. Externally Adjustable

-10 0 C to +40 0 C -30 0 C to +70 0 C 3000m standard

(optional depths available)

**Electrical** 

Power supply

Solid state light

Lens (water corrected)

Sensitivity

S/N ratio

Automatic Gain Control (AGC)

3.8 mm F2 51° V x 40° H 2cm to in rity

12V minimum - 30V

120mA Nominal

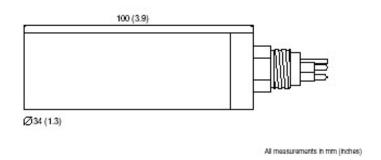
Ring of 6 LED

(5.6 candela)

5 Lux (F2.0) More than 45db

(AGC Off)

More than 18 db





OceanSpy's external focus adjustment