

The Insite Pacific range of underwater video products offers a complete spectrum of high specification, high performance cameras from simple black and white inspection cameras to broadcast quality color zoom cameras.

The **IT1000-PLUS** is a miniature, high specification, cost effective CCD video camera, ideal for applications where size is of critical importance, but high image quality is also a requirement.

It has a high sensitivity and high resolution B&W CCD sensor providing outstanding picture quality and performance in a very compact housing.

It is ideal for mounting on ROV manipulators, or down-hole video and remote tooling where the competing demands of price, size and performance can be met.

The camera has a fixed focus, wide angle lens and requires no external controls in normal operation.



Features

- ❑ *High sensitivity CCD sensor*
- ❑ *High resolution video*
- ❑ *Small size*
- ❑ *Fixed focus, wide angle lens*
- ❑ *Titanium pressure housing*
- ❑ *4,500 meter depth rating*

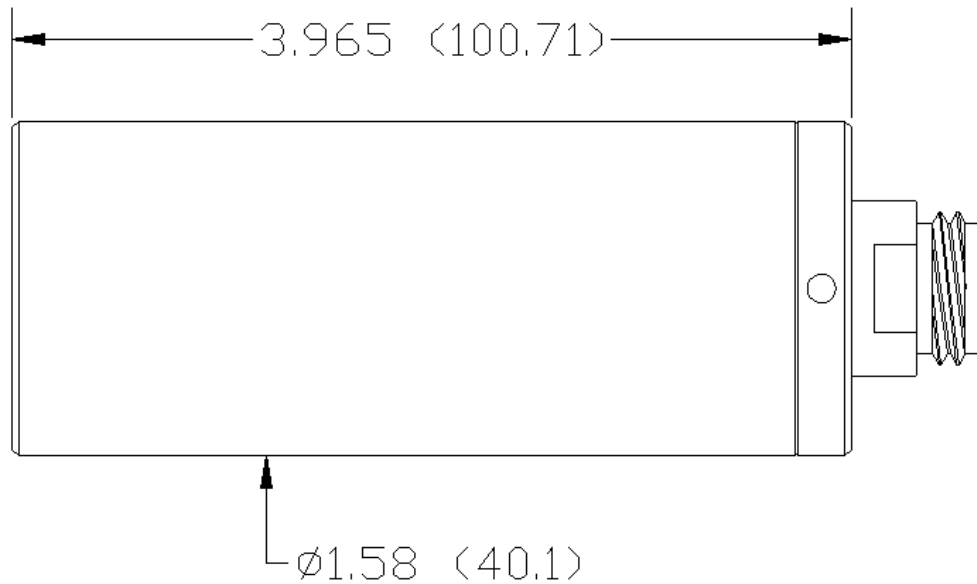
Applications

- ❑ *Remote tooling systems*
- ❑ *Surveillance*
- ❑ *Diver use*
- ❑ *Inspection ROV*
- ❑ *Leisure marine*



Insite Pacific - IT1000-PLUS

Specification



All measurements in inches (millimeters)

Electrical

Sensor	1/3" EXview HAD CCD II
Resolution	700 Horizontal TV lines
Minimum Illumination	0.001 Lux (Faceplate)
Signal to Noise Ratio	>50dB (AGC off)
Effective Pixels	CCIR (PAL), 1020(H) x 596(V) EIA (NTSC), 1020(H) x 508(V)
Video Output	Composite 1Vp-p
Camera Power	15 to 30VDC at 150mA typical (12VDC Optional)
CCD Iris	EIA, 1/60 to 1/100,000 Sec. CCIR, 1/50 to 1/100,000 Sec.

Optical

Lens	3.6mm, F2.0
Focus Range	203mm (8 inches) to Infinity
Field of View	73° Diagonal 61° Horizontal 48° Vertical

Environmental

Depth	4500 meters (14,764ft)
Operating Temperature	14°F to 122°F (-10°C to 50°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)

Mechanical

Pressure Housing Length	4500m Operating Depth 10.07cm (3.965 inches) excluding underwater connector
Diameter	4.01cm (1.58 inches)
Weight in air	0.34kg (12oz) without Connector
Weight in water	0.25kg (9oz) without Connector
Housing Material	6AL / 4V Titanium
Pressure Window	Optically Polished Sapphire
Connector	Customer Specified

Optional pressure housings up to 13km depth rating are available.

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

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