

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*
- ❑ *4,000 meter depth rating*

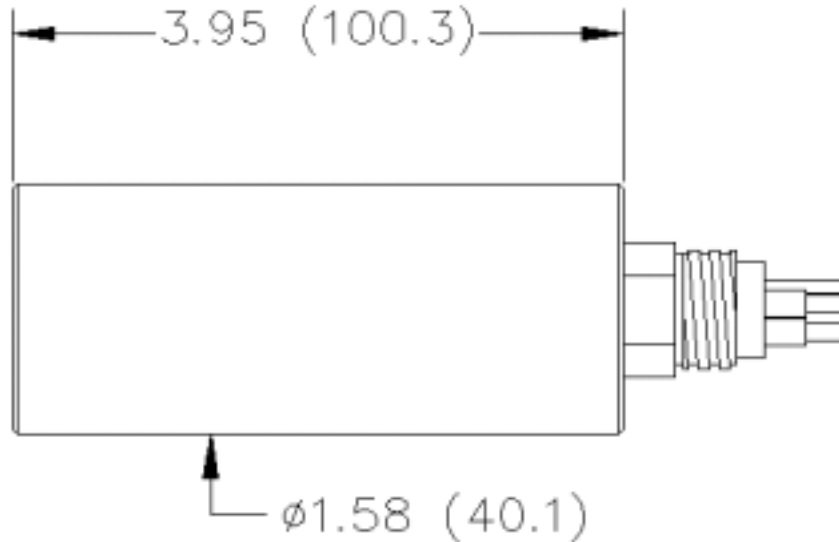
Applications

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



Insite Pacific - IT1000 PLUS

Specification



All measurements in inches (millimeters)

Electrical

Sensor	1/3 Inch CCD
Resolution	600 Horizontal TV lines
Minimum Illumination	0.003 Lux @ faceplate
Signal to Noise Ratio	>50dB (AGC off)
Effective Pixels	CCIR (PAL), 795(H) X 596(V) EIA (NTSC), 811(H) X 508(V)
Video Output	Composite 1Vp-p
Gamma	0.45
Camera Power	12 to 30VDC at 100mA typical Specify voltage when ordering.
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	(8 inches) to infinity
Field of View	73° Diagonal 61° Horizontal 48° Vertical

Environmental

Depth	4000 meters (13,000ft)
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	4000m Operating Depth Titanium Pressure Housing
Size	Refer to drawing for detailed dimensions
Length	10.3cm (3.95 inches) excluding underwater connector
Diameter	4.0cm(1.58 inches)
Weight in air	0.34kg (12oz) without Connector
Weight in water	0.25kg (9oz)
Housing Material	6AL / 4V Titanium
Pressure Window	Optically Polished Sapphire
Connector	MCBH3M other connectors optional

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

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