

Insite Pacific introduces the **PEGASUS**, high resolution, color CCD camera.

The **Pegasus** has an 18X optical zoom lens and 4X digital zoom with auto focus capability. It will provide exceptional images in close-up and stand-off inspection applications.

The **Pegasus** is supplied in a titanium housing, with 3,000 meter depth rating. It can be supplied with other housing and connector options to suit customer specifications.

This camera also includes our exclusive Windows™ control panels for camera setup and remote control via an RS-232 or RS-485 interface. Using a PC Computer you can change the video level, high frequency compensation, shutter speed, white balance and other features with a click of the mouse. All of this can be done without having to retrieve the camera and opening up the pressure housing.

Using our exclusive communications software you can simultaneously control other Insite Pacific cameras, such as our Gemini SIT, extremely low light level camera.



Features

- ❑ 18x Optical zoom and 4X digital zoom
- ❑ Selectable auto or remote focus
- ❑ 3,000 meter 6AL/4V titanium pressure housing
- ❑ Exclusive software control for camera set-up and operations
- ❑ RS232 and RS485 Communication Interface
- ❑ Composite or S-VHS (Y/C) output

Applications

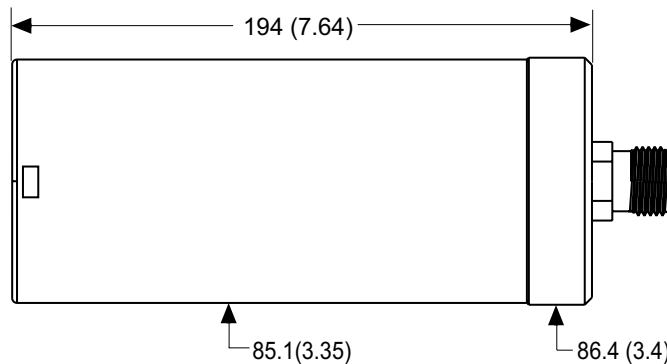
- ❑ Work class ROV main color zoom camera
- ❑ Diver color camera
- ❑ Underwater security and surveillance
- ❑ Environmental and archaeological surveys



The above picture shows the optional wide-angle (approx 90 degree diagonal) hemispherical dome port

Insite Pacific - Pegasus

Specification



all measurements in mm (inches)

Optical

Lens 18:1 Optical zoom : 4.1mm to 73.8mm
F1.4 @ 4.1mm, F3.0 @ 73.8mm

Focus Range

0.4" (10mm) to Infinity @ full wide (4.1mm)
31.5" (800mm) to Infinity @ full tele (73.8mm)

Angle of View	4.1 mm	73.8mm
In Water (Approx)	Wide Angle	Telephoto
(Optical Zoom)		
Diagonal	58°	3.3°
Horizontal	48°	2.7°
Vertical	37°	2.0°

Controls

	Conventional	Telemetry
Zoom	H	H
Focus	H	H
LLA adjust	H	H
Autofocus enable/disable	H	H
White balance		H
Shutter Speed		H
Brightness		H
No. of conductors (inc power)	5-10	5

Communication Interface

Serial Interface	RS232 or RS485
Protocol	ASCII-Based
Baud Rate	1200, 2400, 4800, 9600

Environmental

Depth (Standard)	3000 meters (10,000ft)
Operating Temperature	32°F to 122°F (0°C to 50°C)

Storage Temperature -4°F to 140°F (-20°C to 60°C)

Electrical

Sensor 1/4 Inch Super HAD CCD
Resolution NTSC 470 Horizontal TV lines
PAL 460 Horizontal TV lines

Sensitivity (Scene) Minimum 1 lux at F1.4 (at 50 IRE)

Scanning System NTSC, 60 Hz, 525 lines or
PAL, 50 Hz, 625 Lines

Video Output 1.0 V pp composite video into
75 ohms unbalanced
or separate Y/C outputs for
use with S-VHS systems

Signal to Noise Ratio Greater than 50dB

Camera Power 12-30 VDC at nominal 250 mA

Mechanical

Weight in Air 5.4 lb. (2.45 kg)

Weight in Water 2.7 lb. (1.22 kg)

Housing Material 6AL / 4V Titanium

Connector Customer Specified

Video Line Drivers

Remotely adjustable for various types of cables

Up to 5000 ft (1,500m) for full video

Up to 7,000 ft (2,000m) for usable video with RG/59U
type cable

Dual line drivers for both Y and C

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

Insite Pacific Inc.

263 South Coast Highway 101, Solana Beach, CA 92075-1807, USA

Phone (858) 523-0642 Fax (858) 523-0643

Website: www.insitepacific.com Email: sales@insitetritech.com Issue February 2003