

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

The Pegasus has an 18X optical zoom lens and 12X 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 4,500 meter depth rating. It can be supplied with other housing and connector options to suit customer specifications.

An exciting new feature of this camera is the Onscreen Display Menu, which is activated by the focus and zoom switches. Control of Focus Auto/Manual, Iris Auto/Manual, Backlight Compensation On/Off, Video Gain, and Video High Frequency Compensation are all done with the focus and zoom switches. A visual indication of the settings are overlaid on the video displayed on the TV monitor. The camera can also be controlled by Sony's Camera Control software via a serial interface.



Features

- 18x Optical zoom and 12X digital zoom
- Selectable auto or remote focus
- 4,000 meter 6AL/4V titanium pressure housing
- Onscreen Display Menu for Camera Setup
- RS232 and RS485 Communication Interface
- Composite or S-VHS (Y/C) output

Applications

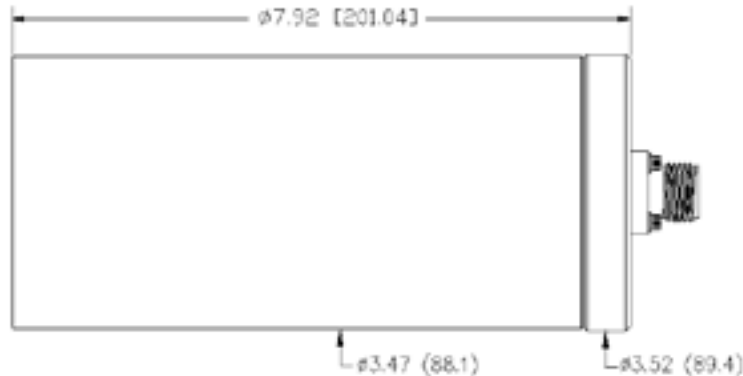
- Work class ROV main color zoom camera
- Diver color camera
- Underwater security and surveillance
- Environmental and archaeological surveys



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

Insite Pacific - Pegasus

Specification



Dimensions above shown for 4.5km Housing

All measurements in inches (mm)

Optical

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

Focus Range

0" (0mm) to Infinity @ full wide (4.1mm)

Angle of View In Water (Approx) (Optical Zoom)	4.1mm Wide Angle	73.8mm Telephoto
Diagonal	66°	5.37°
Horizontal	55°	4.4°
Vertical	43°	3.3°

Zoom and Focus Control:

Bipolar, Tri-State, 2-Wire, Single Wire with support for all industry standard control voltages.

Communication Interface

Serial Interface RS232 or RS485
Protocol ASCII-Based
Baud Rate 9600

Environmental

Depth (Standard) 4,500 Meters (14,764 ft)
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 470 HTVL (NTSC) or 460 HTVL (PAL)
Sensitivity Minimum 0.07 lux
(F1.4, 1/4s (NTSC) or 1/3s (PAL))
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 15-30 VDC at nominal 250 mA
12VDC optional

Mechanical

Weight in Air (4.5km Housing) 5.5 lb. (2.5 kg)
Weight in Water (4.5km Housing) 2.75 lb. (1.2 kg)
Housing Material 6AL / 4V Titanium
Connector Customer Specified

Video Line Drivers (Optional)

Adjustable for various types of cables.
Usable video up to 5000 ft (1,500m) of 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.

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