

Insite Pacific introduces the **PEGASUS PLUS**, high resolution, wide angle, color zoom, CCD camera.

The **Pegasus Plus** has a 36X 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 Plus** can be supplied in titanium housings rated from 1,000 meters to full ocean depth. It can also 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, Wide Dynamic Mode 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

- ❑ 36x Optical zoom and 12X Digital Zoom
- ❑ Wide Angle of View
- ❑ Titanium Pressure Housing
- ❑ Onscreen Display Menu for Camera Setup
- ❑ RS232 and RS485 Communication Interface
- ❑ Composite or S-VHS (Y/C) Output

### Applications

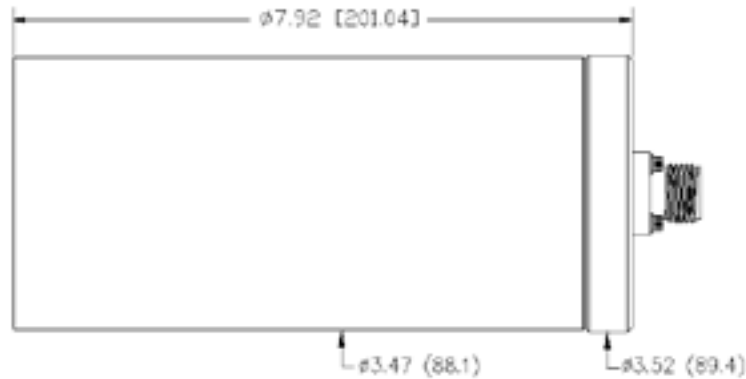
- ❑ Work class ROV main color zoom camera
- ❑ Diver color camera
- ❑ Underwater security and surveillance
- ❑ Environmental and archaeological surveys



The above picture shows the optional 7Km depth rated hemispherical dome port housing.

# Insite Pacific - Pegasus Plus

## Specification



Dimensions above shown for 4.5km Housing

All measurements in inches (mm)

### Optical

**Lens** 36:1 Optical zoom : 3.4mm to 122.4mm  
F1.6 @ 3.4mm, F4.5 @ 122.4mm

### Focus Range

4" (101.6mm) to Infinity @ full wide (3.4mm)  
52" (132.1cm) to Infinity @ full tele (122.4mm)

Angle of View	3.4mm	122.4mm
<i>In Water (Approx)</i>	<i>Wide Angle</i>	<i>Telephoto</i>
<i>(Optical Zoom)</i>		
Diagonal	82°	2.4°
Horizontal	70°	2.0°
Vertical	55°	1.6°

### Communication Interface

**Serial Interface** RS232 or RS485  
**Protocol** ASCII-Based  
**Baud Rate** 9.6Kbps, 19.2Kbps, 38.4Kbps

### Focus, Zoom, and Iris Control Voltages

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

### Environmental

**Depth (as shown)** 4,500 Meters (14,764 ft)  
(Various depth ratings are available)  
**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

**Resolution** 550 Horizontal TV lines  
**Min. Illumination** 1.4 lux (1/60s NTSC, 1/50s PAL)  
ICR-ON Mode: 0.01 lux (1/4s NTSC, 1/3s PAL)  
**Picture Elements** NTSC, 380K pixels  
PAL, 440K pixels  
**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.

## Insite Pacific Inc.

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Issue March 20, 2017