

HIGH DEFINITION 3-CCD Color Zoom Camera

Insite Pacific introduces the **ZEUS PLUS**, a High Definition 3-CCD color video camera with superior picture quality. With 2/3-inch 2,200,000 pixel 1080i IT CCDs (or optional 720P) the camera produces a horizontal resolution of 1,000 TV lines. The images are clear, detailed, and true to life accurate. High Definition Television (HDTV) provides almost five times more video information (2,200,000 pixels compared to roughly 410,000 pixels) compared to conventional TV systems.

The camera can be provided in a housing rated from 1,000 meters to 7,000 meters depth. A glass hemispherical viewport and INSITE's exclusive corrected optical lens system significantly reduces geometric and chromatic distortion.

The ZEUS PLUS has the standard analog video outputs of either HD Y/Pb/Pr or HD R/G/B and an HD-SDI digital video output. The camera is also provided with a fiber optic connector to provide HD-SDI video at 1.5Gbps. Our newly developed Wave Division Multiplexing System allows the Camera Controller and also the Lens Controller signals to be transmitted on the same fiber as the 1.5Gbps HD-SDI video.

A Camera Controller provided with the system allows control of all camera functions including iris. INSITE's exclusive professional Lens Controller allows you to control zoom and focus. The zoom is controlled by using a single axis rate control joystick and the focus by using a slide potentiometer for precise positional control.



Lens Control Unit



Features

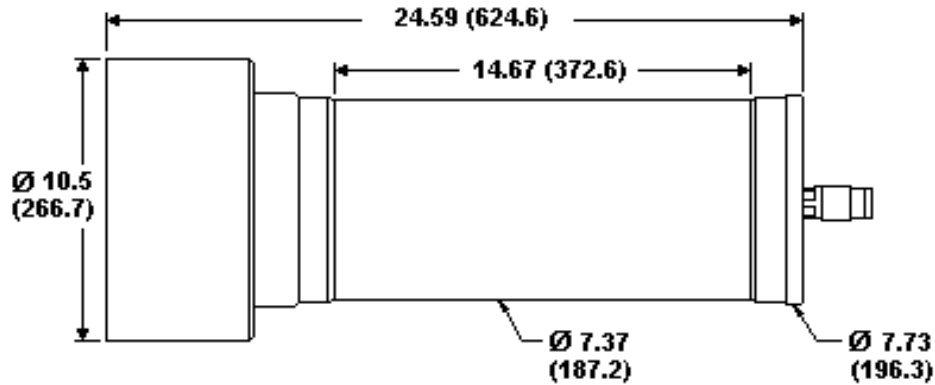
- Broadcast Standard 3-CCD Camera
- 5.2 - 52mm 10X Super Wide Angle Zoom Lens
- 1,000 Horizontal TV Lines Resolution
- HD R/G/B or HD Y/Pb/Pr Analog Video Outputs
- HD-SDI Digital Video Output
- Glass Hemispherical Viewport with INSITE's Exclusive Corrected Optics significantly reduces Geometric and Chromatic Distortion

Applications

- Underwater Documentaries
- High Resolution Inspection In Restricted Access Areas
- Marine Archaeology
- Oceanographic Research
- Military

Insite Pacific - Zeus Plus

Specification



All dimensions in inches (millimeters)

Electrical

Sensor	2/3-inch 3CCD
Sensitivity	2,000 lux at F8
Horizontal Resolution	1,000 TV lines
Digital Video Output	HD-SDI (SMPTE292M)
Scanning System	1125 (59.94Hz) Interlaced
Analog Video Output	HD R/G/B or HD Y/Pb/Pr
Sync System	3 level sync 0.6Vp-p
Signal to Noise Ratio	54dB
Focus / Zoom / Iris	Remote control
Protection	All i/o over-voltage protected and/or fused
Camera Power	12-28 Vdc, 2.2A nominal
Iris Range	F2.0 to F16 and close
Focus Range	Front of the dome to infinity

Mechanical

Dimensions above are for 3,000 meter Titanium Housing	
Weight : In Air	72.5 lbs. (32.9 kg)
Weight : In Water	34 lbs. (15.4 kg)
Housing Material	6AL / 4V Titanium
Viewport	Hemispherical Glass (Optically Polished, Water Corrected)
Connector	Customer specified

Lens 5.2 to 52mm, 10X Zoom lens

Angle of view	5.2mm	52mm
<i>In water</i>	<i>Wide angle</i>	<i>Telephoto</i>
<i>Diagonal</i>	85°	11.0°
<i>Horizontal</i>	78°	9.5°
<i>Vertical</i>	49°	5.5°

Environmental

Depth	1,000 to 7,000 meter pressure housings available
Operating Temperature	-5 DegC to 45 DegC

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

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