

HIGH DEFINITION Color Zoom Camera

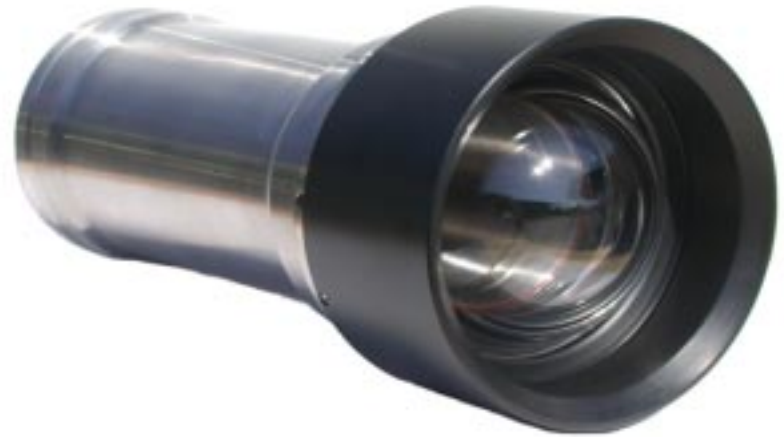
Insite Pacific introduces the **MINI ZEUS**, a High Definition CMOS color zoom video camera. The camera has 2,000,000 effective pixels that can shoot high-definition images with superior picture quality. The images are clear, detailed, and true to life accurate. High Definition Television (HDTV) provides nearly five times more video information (2,000,000 pixels compared to roughly 410,000 pixels) compared to standard definition 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 MINI ZEUS has the standard outputs of either High Definition Analog Component (Y/Pb/Pr) and Standard Definition VBS or Y/C video. The camera is capable of outputting 8 different video formats, including HD: 1080i/59.94, 1080i/50, 720p/59.94, 729p/50, SD: NTSC (crop), NTSC (squeeze), PAL (crop), and PAL (squeeze).

Optionally a 1.5Gbps HD-SDI video converter mounted inside the pressure housing with a fiber optic connector mounted on the rear end bell can provide transmission of the video signal for distances of up to 10Km.

Another available option is INSITE's exclusive professional Camera/Lens Controller, which allows you to control zoom, focus, and iris. The zoom is controlled by using a single axis rate control joystick and the focus and iris by using a slide potentiometer for precise positional control.



Features

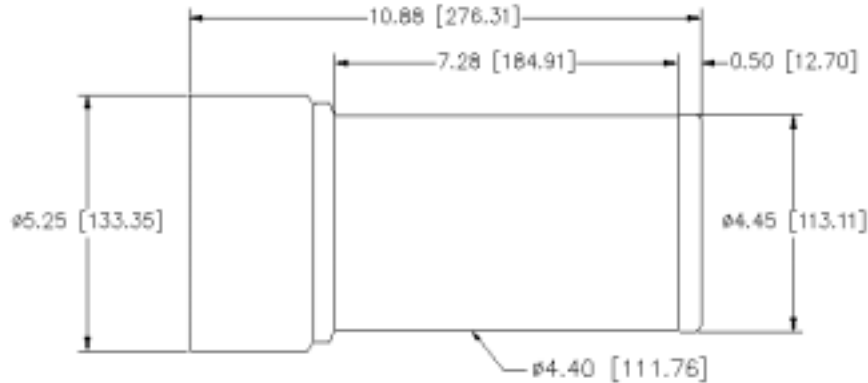
- ❑ *Small Sized HDTV Camera*
- ❑ *5.1 - 51mm 10X Wide Angle Zoom Lens*
- ❑ *2,000,000 effective pixels*
- ❑ *HD: Y/Pb/Pr Analog Video Outputs*
- ❑ *SD: VBS or Y/C Video Output*
- ❑ *Glass Hemispherical Viewport with INSITE's Exclusive Corrected Optics significantly reduces Geometric and Chromatic Distortion*

Applications

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

Insite Pacific - Zeus Mini

Specification



All dimensions in inches [millimeters]

Electrical

Sensor	1/5-inch CMOS
Sensitivity	12 lux at F1.8 (50 IRE)
HD: Analog Video Output	Y/Pb/Pr
HD: Video Formats	1080i/59.94, 1080i/50, 720p/59.94, 729p/50
SD: Analog Video Outputs	VBS, Y/C
SD: Video Formats	NTSC & PAL (crop & squeeze)

Mechanical

Dimensions above are for 6,000 meter Titanium Housing	
Weight : In Air	15.5 lbs. (7.03 kg)
Weight : In Water	9.0 lbs. (4.08 kg)
Housing Material	6AL / 4V Titanium
Viewport	Hemispherical Glass (Optically Polished, Water Corrected)
Connector	Customer specified

Signal to Noise Ratio	50dB
Focus / Zoom / Iris	Remote control
Focus Range (At full telephoto)	10.5" (26.7cm) to infinity
Focus Range (At full wide)	Front of the dome to infinity
Protection	All i/o over-voltage protected and/or fused
Camera Power	15-30 Vdc, 300 mA nominal
Iris Range	F1.8 to F26 and close
Lens	5.1 to 51mm, 10X Zoom lens

Angle of view	5.1mm	51mm
	Wide angle	Telephoto
In water		
Diagonal	100°	10.8°
Horizontal	85°	8.8°
Vertical	64°	6.6°

Environmental

Depth	1,000 to 7,000 meter pressure housings available
Operating Temperature	0 DegC to 45 DegC

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

INSITE PACIFIC Inc.

742 GENEVIEVE STREET, SUITE T, SOLANA BEACH, CA 92075-2060, USA

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

Website: www.insitepacific.com Email: sales@insitepacific.com

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