

Insite Pacific introduces the **Mini Zeus 4K**, a 4K High Definition CMOS color zoom video camera. The camera incorporates a 1/2.3 inch 4K CMOS sensor that provides greater than 21 times more video information (8,930,000 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 7,500 meters depth.

A glass hemispherical viewport and Insite Pacific's exclusive fully underwater corrected optical lens system corrects for chromatic and geometric distortion, astigmatism, as well as other optical abnormalities. Our proven corrected optical lens system also eliminates zoom and focus tracking errors.

The Mini Zeus 4K provides HD-SDI, 3G-SDI, and 6G-SDI High Definition/4K digital video outputs of 2160p/29.97, 2160p/25, 1080p/59.94, 1080p/50, 1080p/29.97, 1080p/25, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, 720p/29.97, and 720p/25, which are all available from a single camera. Focus, iris, and zoom can be controlled via DC voltages, a GUI, or Insite Pacific's Camera/Lens Controller for maximum flexibility.

CWDM compatible SMPTE SDI Rates of 5.94Gbps, 2.97Gbps, and 1.485Gbps are provided by the electrical to fiber optic video converter mounted inside the pressure housing, along with a fiber optic connector mounted on the rear endbell, can provide transmission of the video signal for distances of up to 20Km on a fiber optic cable. SDI video has extremely low latency as compared to typical IP/Ethernet based cameras.

Insite Pacific's optional Camera/Lens Controller allows control of zoom, focus (auto/manual & near/far) and iris (auto/manual & open/close). Zoom is controlled by using a single axis rate control joystick. Focus and Iris are controlled by using a slide potentiometer for precise positional control. The various video outputs of the camera and white balance are selectable via the Control Unit. Communication between the hand control unit and the camera is selectable for either RS232 or RS485 comm's. Positional feedback from the camera for lens focus, iris, and zoom settings are available outputs of the control unit.



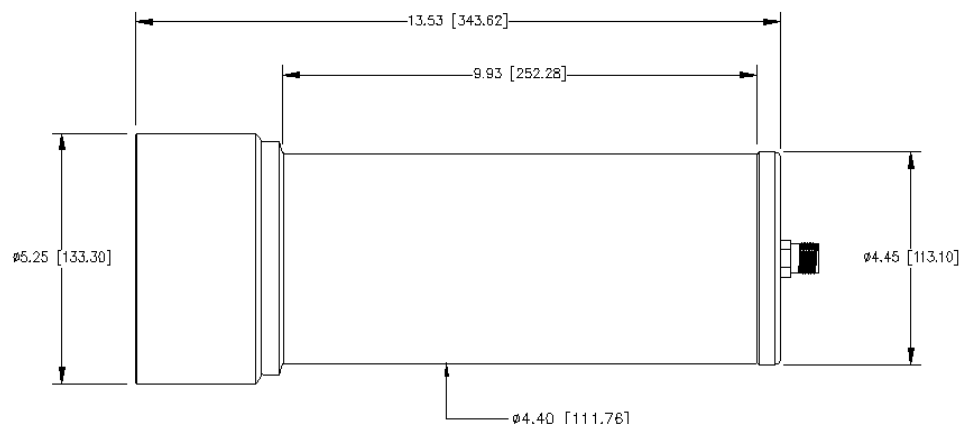
Features

- ❑ 4K High Definition Video
- ❑ Super Wide 126 Degree Diagonal Angle of View
- ❑ 1,000 Meter to 7,500 Meter Depth Ratings
- ❑ HD-SDI, 3G-SDI, and 6G-SDI Digital Video Outputs
- ❑ Extremely low latency, uncompressed video
- ❑ Close Focus of 2" (50.8mm) at Zoom Full Wide
- ❑ Close Focus of 16" (406.4mm) at Zoom Full Tele
- ❑ Glass Hemispherical Viewport with Insite Pacific's Exclusive Fully Corrected Optics

Applications

- ❑ Offshore Oil & Gas Industries
- ❑ Underwater Documentaries
- ❑ High Resolution Inspection In Restricted Access Areas
- ❑ Marine Archaeology
- ❑ Oceanographic Research
- ❑ Military

Insite Pacific - Mini Zeus 4K



All dimensions in inches [millimeters]

Specifications:

Electrical

Camera Power:	15-30 Vdc, 350 mA nominal
Sensor:	1/2.3 inch Exmor R CMOS
Sensor Effective Pixels:	Approximately 8,930,000
Minimum Illumination:	0.1 lx (1/4 sec (1/3 sec), 50% High Sensitivity mode On)

HD-SDI, 3G-SDI, & 6G-SDI Digital Video Formats:
2160p/29.97, 2160p/25, 1080p/59.94, 1080p/50, 1080p/29.97,
1080p/25, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50,
720p/29.97, and 720p/25

CWDM Wavelength options: 1270nm, 1290nm, 1310nm,
1330nm, 1350nm, 1370nm, 1390nm, 1410nm, 1430nm, 1450nm,
1470nm, 1490nm, 1510nm, 1530nm, 1550nm, 1570nm, 1590nm,
and 1610nm.

Fiber Optic Tx Power Output:	0 to +5dBm
Fiber Optic Receiver (Rx) Sensitivity:	-14 dBm
Focus / Zoom / Iris:	Remote control
Focus Range (At full wide):	2" (50.8mm) to infinity
Focus Range (At full telephoto):	16" (406.4mm) to infinity
Iris Range:	F1.8 to Closed
Lens:	3.9 mm to 46.8 mm, 12X Optical Zoom lens

Angle of view	3.9mm	46.8mm
In water	(Wide angle)	(Telephoto)
Diagonal	126.1°	11.9°
Horizontal	119.4°	10.4°
Vertical	87.9°	5.8°

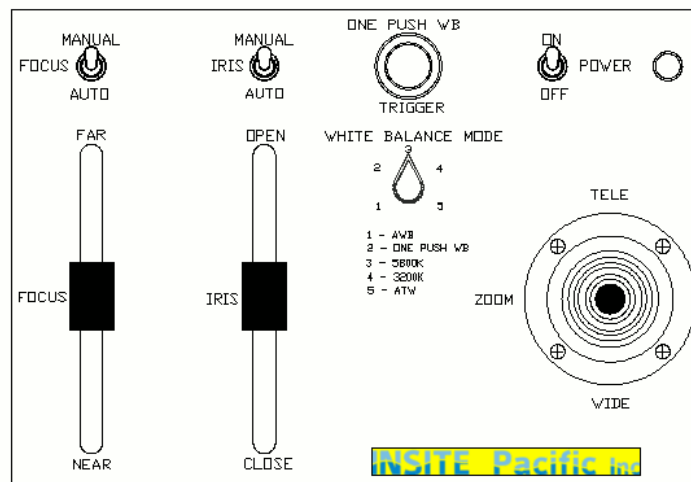
Environmental

Depth:	1,000 to 7,000 meter depth rated housings available
Operating Temperature:	0°C to +60°C (32°F to 140°F)
Storage Temperature:	-20°C to +60°C (-4°F to 140°F)

Mechanical

Dimensions above are for the 6km depth rated housing.

Weight In Air:	8.50 kg (18.75 lbs)
Weight In Water:	5.10 kg (11.25 lbs)
Housing Material:	6AL / 4V Titanium
Viewport:	Hemispherical Glass (Optically Polished, Water Corrected)
Connector:	Customer specified



CAMERA CONTROL UNIT

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

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