



Optim SeaCam[®]



15.5X OPTICAL ZOOM



4K ULTRA HD



LOW LATENCY



6G-SDI FIBER OR COAX



350 MM MINIMUM OBJECT DISTANCE



UP TO 11 KM DEPTH RATING

Premium 4K Ultra-High-Definition Video

A unique, rugged tool for scientists, subsea explorers, and filmmakers

The Optim SeaCam holds the distinction of being the first 4K camera to dive to the deepest place in the ocean: Challenger Deep in the Mariana Trench, more than 10 km down. Ideal for real-time viewing in 4K and optimal for discovery, documentation, and storytelling, the Optim SeaCam features an extended zoom range and a 350 mm minimum object distance at full telephoto that makes for stunning close-up images and brings out the smallest details. Familiar VISCA controls make the Optim a logical upgrade path from legacy HD systems, while being sized to fit almost any platform from medium inspection class vehicles to large crewed submersibles.

Specifications subject to change without notice



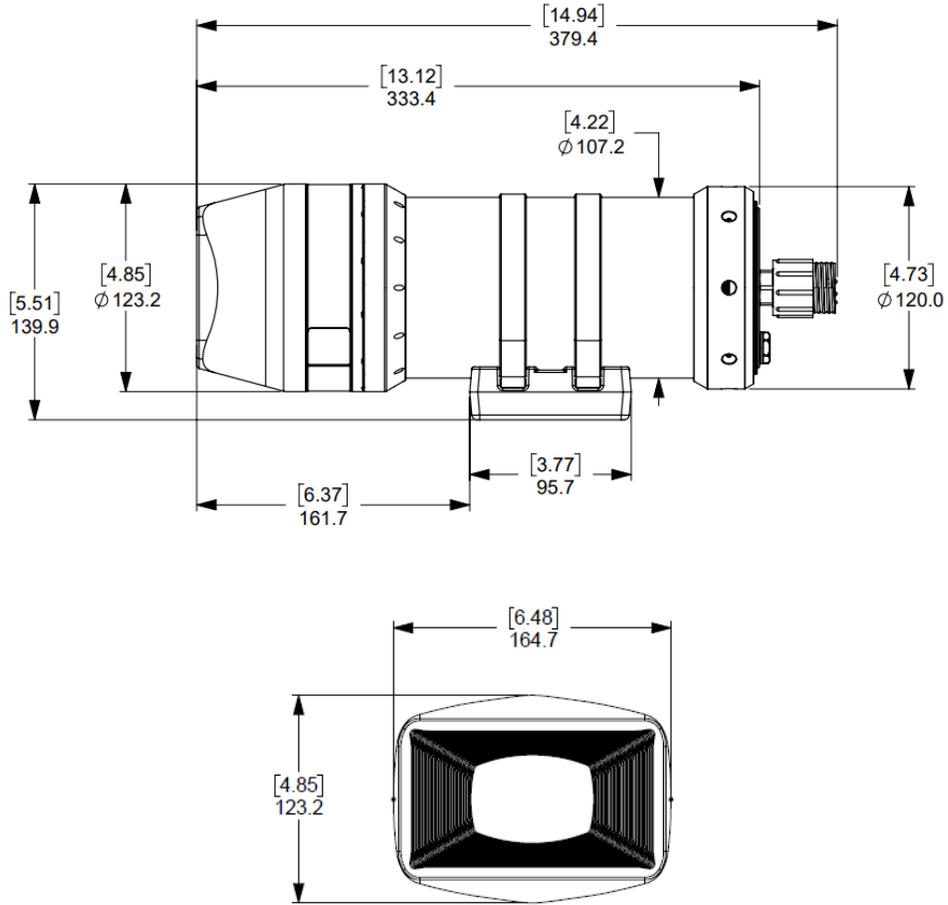
For further information, email
sales@deepsea.com



Specifications

OSC-	2080-CX	2080-FO	2080-IP
Optical Specifications			
Lens	5.7 mm to 88.4 mm F/2.0 to F/3.8		
Optical Zoom	15.5x		
Focus	Wide: 50 mm to Infinity Tele: 350 mm to Infinity		
FOV in Water	Wide: 86° D x 78° H x 48° V		
Video Specifications			
Image Sensor	1/2.5" CMOS Progressive Scan		
Faceplate Illumination	0.35 Lux (50 IRE)		
Scene Illumination	1.2 Lux (50 IRE)		
Maximum Resolution	3840 x 2160		
Video Formats	4K UHD: 2160p/29.97, 2160p/25 HD: 1080p/59.94, 1080p/50, 1080p/29.97/25, 1080i/59.94/50, 720p/59.94/50/29.97/25		
Video Transmission	4K UHD: 6G-SDI (SMPTE ST 2081), HD: 3G-SDI (SMPTE 424M), HD-SDI (SMPTE 292)	Ethernet HEVC (h.265), AVC (h.264)	
Onboard Recording	None	Yes, 256 GB up to 1TB	
Typical Latency	< 1 frame	<500 ms	
Control Options	RS-232, RS-485 using SeaSense™ Protocol, VISCA Discrete tristate control for zoom, focus, auto focus, white balance	VISCA (over Ethernet)	
Environmental Specifications			
Depth Rating	6,000 m 11,000 m (Option)		
Operating Temp	-5 °C to 40 °C [23 °F to 104 °F]		
Storage Temp	-20 °C to 60 °C [-4 °F to 140 °F]		
Mechanical Specifications			
Housing	6Al-4V Titanium		
Port	Optical glass dome		
Weight in Air	6.85 kg [15.1 lbs.]		
Weight in Water	2.73 kg [6.02 lbs.]		
Electrical Specifications			
Voltage	10~36 VDC		
Power	10 W Max	12 W Max	
Standard Connector	Coax: SubConn HFCX75BH6M Flexlink: SubConn DBH8M	Electrical: SubConn MCBH6M Fiber: SubConn OptoLink 1FO	SubConn DBH13M

Dimensions



Brackets

