

**DEEPSEA**  
Power & Light<sup>®</sup>



# Vertex<sup>™</sup> SeaCam<sup>®</sup>



## FEATURES

**Full HD Resolution**

**79° Horizontal FOV at Full Wide**

**Proprietary Corrector Optics**

**10x Optical Zoom**

**RS-232 and RS-485 Serial Control**

**Tristate Zoom, Focus, and Auto Focus Controls**

**Up to 11,000 m Depth Rating**

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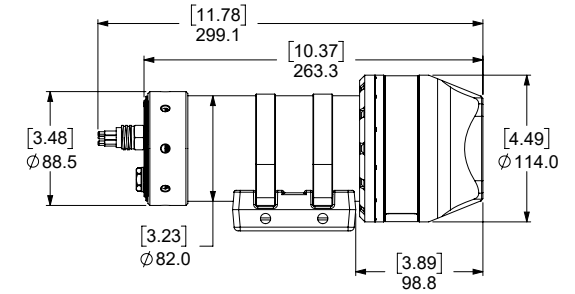
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# Vertex™ SeaCam®

VSC-1080	
<b>Optical Specifications</b>	
<b>Lens</b>	3.2 mm to 32 mm F/1.8 to F/3.4
<b>Optical Zoom</b>	10x
<b>Focus</b>	Wide: 10 mm Tele: 250 mm
<b>FOV in Water</b>	Wide: 86° D x 79° H x 49° V Tele: TBD
<b>Video Specifications</b>	
<b>Image Sensor</b>	1/3" CMOS Progressive Scan
<b>Measured Resolution</b>	TBD
<b>Scene Illumination</b>	TBD
<b>Faceplate Illumination</b>	0.5 lx
<b>Signal to Noise</b>	> 50dB
<b>Video Output</b>	<b>HD-SDI 1.485Gb/s:</b> 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50, 720p/30, 720p/29.94, 720p/25 <b>3G-SDI 2.97Gb/s:</b> 1080p/60, 1080p/59.94, 1080p/50 <b>CVBS:</b> NTSC, PAL
<b>Environmental Specifications</b>	
<b>Depth Rating</b>	Aluminum: 6,000 m Titanium: 11,000 m
<b>Operational Temperature</b>	-5 °C to 40 °C [23 °F to 104 °F]
<b>Storage Temperature</b>	-20 °C to 60 °C [-4 °F to 140 °F]
<b>Electrical Specifications</b>	
<b>Voltage</b>	10~36 VDC
<b>Power</b>	Fiber Optic: 10W max Flexlink and Coax: 7W max
<b>Serial Protocol</b>	SeaSense™ Serial Protocol, VISCA
<b>Control Interface</b>	RS-232, RS-485, Tristate (zoom, focus, auto focus)
<b>Mechanical Specifications</b>	
<b>Housing</b>	6000 Series Aluminum 6Al-4V Titanium
<b>Port</b>	Optical glass dome
<b>Outer Diameter</b>	120.7 mm [4.75 in.]
<b>Overall Length (Without Connector)</b>	279.1 mm [10.99 in.]
<b>Weight in Air</b>	Aluminum: 3.84 kg [8.47 lbs]
<b>Weight in Water</b>	Aluminum: 1.81 kg [3.99 lbs]
<b>Connector</b>	
<b>Fiber</b>	Electric: SEACON MCBH6M Fiber Optic: SEACON MINF-1FO Contact sales for more options.
<b>Coax</b>	SubConn HF75CXBH6M Contact sales for more options.
<b>Flexlink</b>	SubConn DBH8M Contact sales for more options.



[inch]  
mm

