



Vertex SeaCam®



FULL HD
RESOLUTION



79° HORIZONTAL
FIELD OF VIEW



CUSTOM
CORRECTOR OPTICS



10X OPTICAL
ZOOM



TRISTATE ZOOM
& FOCUS



UP TO 11 KM
DEPTH RATING

Dynamic Controls with Up To 10x Image Zoom

Superior imaging performance with proprietary corrector optics

The compact Vertex SeaCam includes full HD resolution with 10x optical zoom and low-distortion 79° HFOV at full-wide. A minimum faceplate illumination of 0.5 lux provides impressive low light capability.

This subsea camera works with RS-232 and RS-485 control interfaces through VISCA or SeaSense Protocol. Tristate control is available for zoom, focus, and auto focus features. The Vertex SeaCam is easy to integrate with fiber, coax, and Flexlink output method options. Configuration options include aluminum housing with 6,000 m depth rating and titanium housing with 11,000 m depth rating. The Vertex SeaCam includes a mounting bracket with titanium inserts.



For further information, email
sales@deepsea.com



Specifications

Vertex SeaCam – VSC-1080	
Optical Specifications	
Lens	3.2 mm to 32 mm F/1.8 to F/3.4
Optical Zoom	10x
Focus	Wide: 10 mm Tele: 250 mm
FOV in Water	Wide: 86° D x 79° H x 49° V Tele: 10.6° D x 9.2° H x 5.3° V
Video Specifications	
Image Sensor	1/3" 4.08MP CMOS Progressive Scan
Faceplate Illumination	0.51 Lux
Scene Illumination	0.65 Lux
Resolution	1920x1080
Measured Resolution	850 TVL at Full Wide
Signal to Noise	< 50 dB
Video Output	HD-SDI 1.485 Gb/s: 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 3G-SDI 2.97 Gb/s: 1080p/60, 1080p/59.94, 1080p/50 CVBS: NTSC, PAL
Serial Protocol	SeaSense® Serial Protocol, VISCA
Control Interface	RS-232, RS-485, Tristate (zoom, focus, auto focus, white balance)
Environmental Specifications	
Depth Rating	Aluminum: 6,000 m Titanium: 11,000 m
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	6000 Series Aluminum 6Al-4V Titanium
Port	Optical glass dome
Weight in Air	Aluminum: 3.84 kg [8.47 lbs]
Weight in Water	Aluminum: 1.81 kg [3.99 lbs]
Electrical Specifications	
Voltage	10~36 VDC
Power	Fiber Optic: 10 W Max FleXlink and Coax: 7 W Max
Connectors	
Fiber	Electric: SubConn MCBH6M SS Fiber Optic: SubConn OptoLink 1-FO
Coax	SubConn HF75DXBH6M/S
FleXlink	SubConn DBH8MP

Dimensions

