



HD Multi SeaCam[®]



FULL HD 1080P/ 30
VIDEO OUTPUT



40-150° HORIZONTAL
FOV



SCRATCH-RESISTANT
SAPPHIRE PORT



UP TO 11 KM DEPTH
RATING



FLEXLINK
CONNECTOR OPTION



COAX CONNECTOR
OPTION

Compact and Highly Configurable HD Imaging

A versatile choice for science and industrial use

The HD Multi SeaCam delivers high-quality HD-SDI 1080p/30 video in a compact housing. This subsea camera has minimal distortion in both the 72° HFOV flat port and the 105° HFOV dome port. Options include flat sapphire or glass dome port housing and SDI or IP video formats. Flexlink[®] and coax transmission methods are available. The HD Multi SeaCam includes a mounting bracket with titanium inserts.

Specifications subject to change without notice



For further information, email
sales@deepsea.com



Specifications

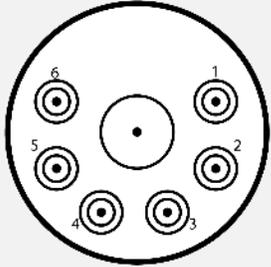
Optical Specifications						
HDMSC-	4040	4070	4085	4105	4125	4150
Port Type	Flat			Dome		
Lens	6 mm, f/4.0	2.7 mm, f/2.9	2.33 mm, f/2.9	2.7 mm, f/2.9	2.33 mm, f/2.9	1.97 mm, f/3.0
Focus	100 mm-∞					
Horizontal Field of View (Water)	40°	72°	85°	105°	125°	150°
Min. Faceplate Illumination Color [Mono ¹]	0.095 [0.002] Lux			0.095 [0.002] Lux		
Sensor and Video Format Specifications						
HDMSC-	40XX-CX/FX	41XX-CX/FX	40XX-IP	41XX-IP		
Image Sensor	Sony 1/2.8 inch class Back Side Illuminated CMOS Sensor					
Resolution	1920x1080					
Sensor Chroma	RGB Color			RGB Color, Monochrome Option		
Video Format	1.5 Gbps HD-SDI 1080/30/25p, 720/60/50/30/25p			h.264 1080/30/25p, 720/60/50/30/25p		
Transmit Type	Coax or FleXlink			Ethernet		
Recording Type	N/A			Video, time-lapse		
Memory	N/A			256 GB microSD, up to 1 TB		
Environmental Specifications						
HDMSC-	40XX-CX/FX	41XX-CX/FX	40XX-IP	41XX-IP		
Max Depth Rating	6000 m	6000 m 11,000 m Option	6000 m	6000 m	6000 m 11,000 m Option	
Operating Temp	-30° C to 50° C [-22° F to 122° F]			0° C to 40° C [32° F to 104° F]		
Storage Temp	-30° C to 70° C [-22° F to 158° F]			-30° C to 70° C [-22° F to 158° F]		
Mechanical Specifications						
HDMSC-	40XX-CX/FX	41XX-CX/FX	40XX-IP	41XX-IP		
Housing	Titanium	6km Titanium 11km: Titanium, Stainless Steel ²	Titanium	6km Titanium 11km: Titanium, Stainless Steel ²		
Optical Port	Sapphire	Borosilicate Glass	Sapphire	Borosilicate Glass		
Mounting Bracket	Injection molded saddle bracket with 4x M6 or 1/4-20 titanium inserts on 25.4mm centers, 316-SS hose clamp					
Weight in Air	0.65 kg [1.4 lbs.]	0.65 kg [1.4 lbs.]	0.56 kg [1.23 lbs.]	0.56 kg [1.23 lbs.]		
Weight in Water	0.44 kg [1.0 lbs.]	0.37 kg [0.84 lbs.]	0.34 kg [0.75 lbs.]	0.32 kg [0.71 lbs.]		
Electrical Specifications						
HDMSC-	40XX-CX/FX	41XX-CX/FX	40XX-IP	41XX-IP		
Power	10 to 36 VDC			10 to 36 VDC, Power over Ethernet (IEEE802.3af)		
Voltage	3 W Max			2 W Max		
Control	RS-485, RS-232, Tristate (OSD only)			Webpage Operator Interface		
Standard Connector	Coax: SubConn HF75CXBH6M Stainless Steel FleXlink: SubConn DBH8M, Stainless Steel			Ethernet: SubConn DBH8M, Stainless Steel Power Only: SubConn BH4M, Stainless Steel		
<i>Contact Sales for additional options</i>						

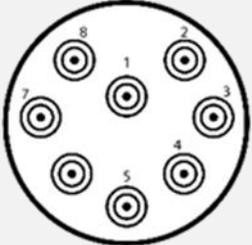
¹ Higher sensitivity mono sensor chroma sensor option only available with IP video format options.

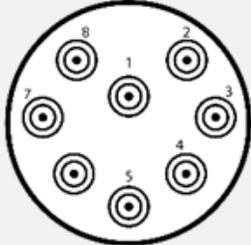
² All surfaces in contact with sea water are Titanium. Stainless Steel is used internally as a part of the dome support only.

Standard Pinouts

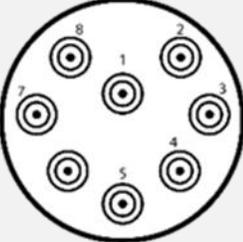
HD-SDI Coax and FleXlink Configurations

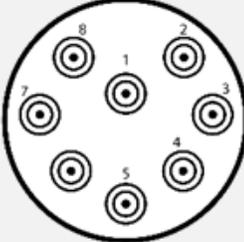
HD Camera – Hybrid Coax Pinout Description			
SUDBH8M/S SubConn HF75CX6BHM  MALE PIN VIEW	PIN	Tristate	Serial
	1	DC-	DC-
	2	DC+	DC+
	3	N/C	N/C
	4	N/C	N/C
	5	OSD ↑/↓	↑RxD/B+
	6	OSD →/←	↓TxD/A-
	COAX	SDI	SDI
	SHIELD	SDI REF	SDI REF
	ID	06X023	06X020

HD Camera – FleXlink Pinout Description (SubConn)			
SUDBH8M/S SubConn DBH8  MALE PIN VIEW	PIN	Tristate	Serial
	1	SDI+	SDI+
	2	SDI-	SDI-
	3	N/C	N/C
	4	N/C	N/C
	5	DC+	DC+
	6	DC-	DC-
	7	OSD ↑/↓	↓TxD/A-
	8	OSD →/←	↑RxD/B+
	ID	08C042	08C016

HD Camera – FleXlink Pinout Description (SEA-CON)		
SEMCBH8M/S SEA-CON MCBH8M-NET  MALE PIN VIEW	FleXlink Tristate	FleXlink Serial
	DC+	DC+
	DC-	DC-
	OSD ↑/↓	↓TxD/A-
	OSD →/←	↑RxD/B+
	SDI+	SDI+
	SDI-	SDI-
	N/C	N/C
	N/C	N/C
	08C020	08C003

IP Configurations

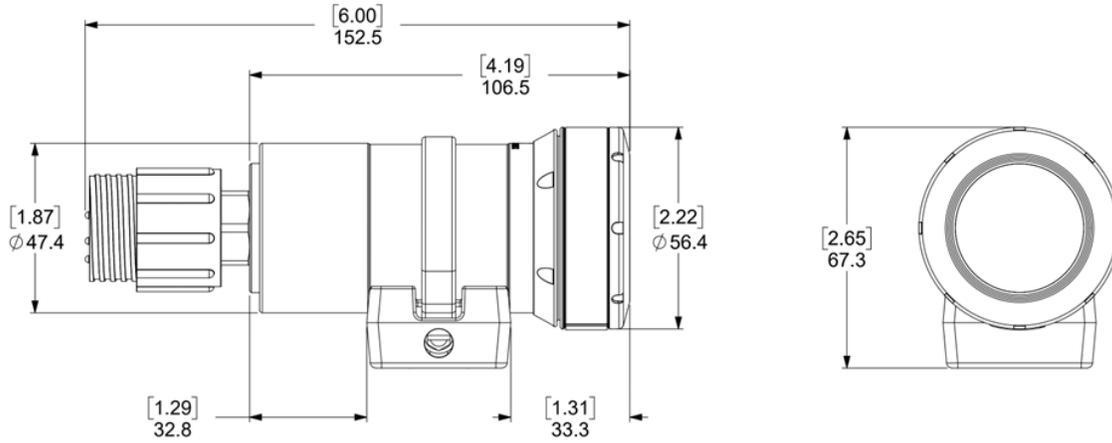
Ethernet Camera – IP Pinout Description (SubConn)			
<p>SUDBH8M/S SubConn DBH8</p>  <p>MALE PIN VIEW</p>	PIN	Discrete Power 10/100 Mbps	PoE 10/100 Mbps
	1	DC-	0V PoE
	2	DC-	0V PoE
	3	DC+	48V PoE
	4	DC+	48V PoE
	5	TD-	TD-
	6	TD+	TD+
	7	RD-	RD-
	8	RD+	RD+
	ID	08E021	08E025

Ethernet Camera – IP Pinout Description (SEA-CON)			
<p>SEMCBH8M/S SEA-CON MCBH8M-NET</p>  <p>MALE PIN VIEW</p>	Discrete Power 10/100 Mbps	PoE 10/100 Mbps	
	TD-	TD-	
	TD+	TD+	
	RD-	RD-	
	RD+	RD+	
	DC-	0V PoE	
	DC-	0V PoE	
	DC+	48V PoE	
	DC+	48V PoE	
	ID	08E022	08E023

IP Camera – IP Pinout Description		
<p>SRSEANET/S Schilling Robotics SEANET</p> 	PIN	NIM
	1	DC+
	2	DC-
	3	CHASSIS
	4	RD-
	5	RD+
	6	TD-
	7	TD+
	ID	07E004

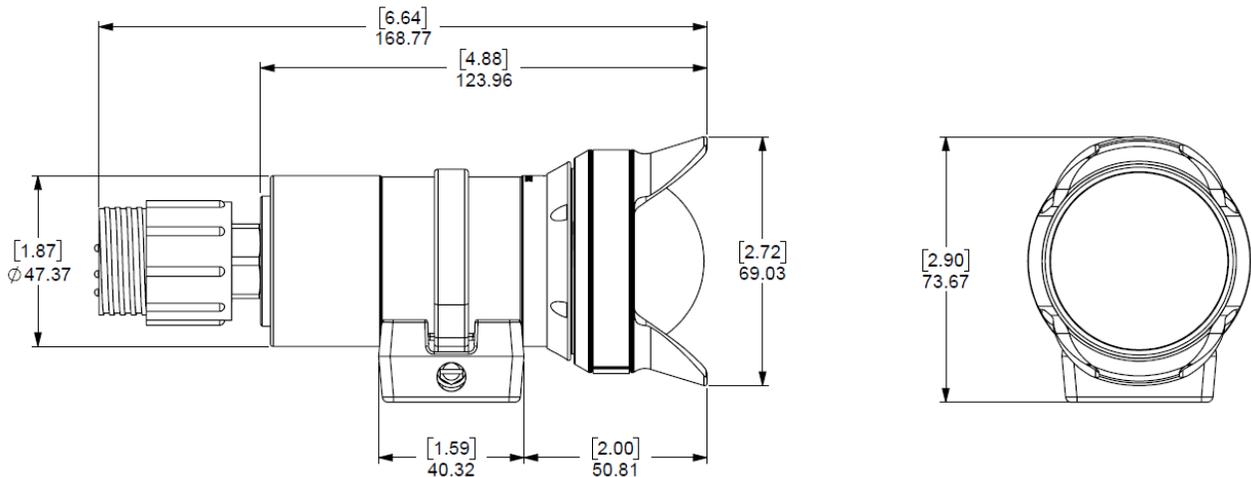
Dimensions

Sapphire Flat Port

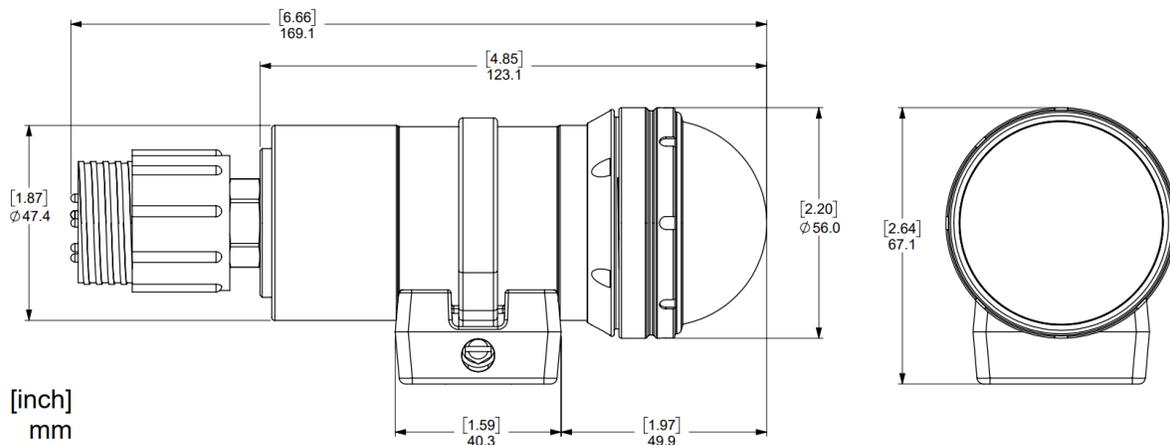


[inch]
mm

Glass Dome Port With and Without Cowl



mm
[inch]



[inch]
mm