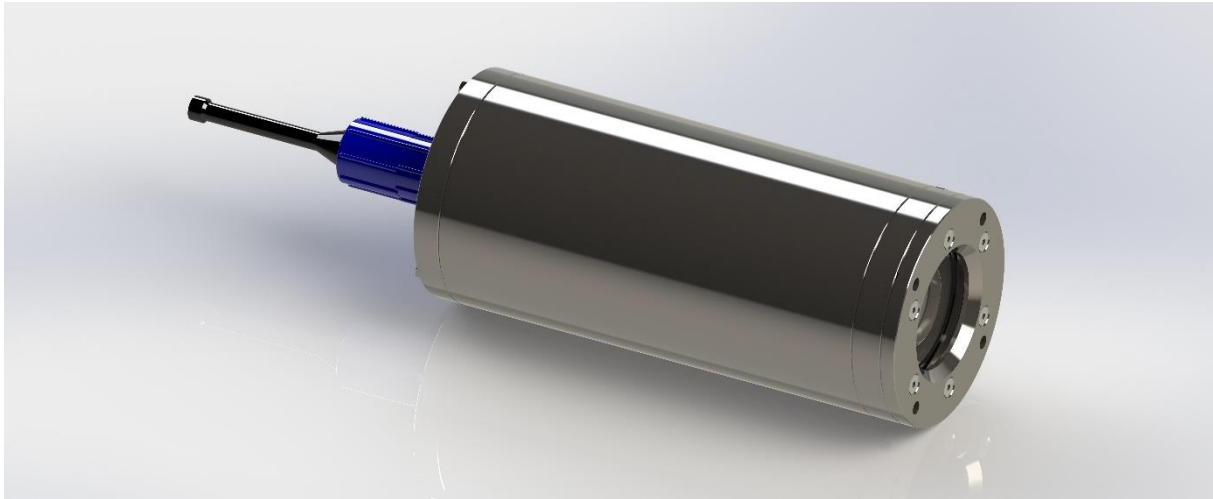


Datasheet: Oktopus Deepsea-Ethernet-Camera

OktoCam FHD60



1 Mechanics

Maximum pressure (bar)		600
Materials	Cover	Titanium
	Tube	Titanium
	Glas	Sapphire
Dimensions (H x W x D, mm)	Without connector	117 x 117 x 268
Weight (kg)	In air	7
	In water	4.5
Connectors	Power supply + ethernet + RS232	SubConn DBH13M

2 Electrics

Voltage (V)		20 - 60
Power consumption (W)		36
Data transmission	Ethernet (Mbit/s)	1,000

3 Optics

Type of glass		Flatport
Sensor		Sony IMX304
Image		Color
UV-filter		Integrated

a. Fixed Focus

Viewing Angle (in air, °)	Horizontally	53
	Vertically	40
Aperture		F2.8
Focus		Fixed

b. Adjustable Focus



Field of view at 1x zoom (in air, °)	Horizontally	44
	Vertically	33
Field of view at 10x zoom (in air, °)	Horizontally	4
	Vertically	3
Aperture		F1.2
Focus		Variable, depending on focal length
Control		Control panel

4 Features

a. Videostreaming

Resolution (pixel)	Horizontally	1,920
	Vertically	1,080
Framerate (max., FPS)		60
Video compression	Codec	H.264
	Datarate (Mbit/s)	96
Overlay	Text	15 characters, configurable
	Clock	Hours, Minutes, Seconds
Delay	Glas to glas	≤ 150 ms ¹
Protocols	Streaming	RTSP
	Configuration	SSH
	Network	IPv4
Simultaneous connections		≤ 9

¹ The achievable delay time is strongly dependent on the playback hardware used. In particular, the refresh rate of the playback monitor and the CPU and GPU configuration of the playback computer play a role. The specified latency refers to a playback monitor with 120 Hz frame rate. More detailed information about the test setup on request.

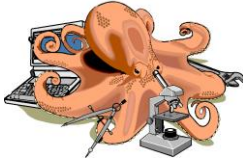
b. Video recording ² (optional)

Resolution (pixel)	Horizontally	1,920
	Vertically	1,080
Framerate (max., FPS)		60
Video compression	Codec	H.264
	Datarate (Mbit/s)	96
Overlay		No
Storage	internal	500 GB, 1 TB or 2 TB
Protocols	Configuration	SSH
	Storage access	FTP
	Network	IPv4

² Recording video is currently only possible while network streaming is running.

c. Image recording ³ (optional)

Resolution (pixel)	Horizontally	1,920
	Vertically	1,080
Image compression	Codec	JPEG
Overlay		No
Storage	internal	500 GB, 1 TB or 2 TB
Batch capturing		1 to 10 images
Timer capturing		1 to 60 seconds
Protocols	Configuration	SSH
	Storage access	FTP



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	Network	IPv4
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³ Recording images is currently only possible while network streaming is running and can also be done in parallel with recording video footage.

5 Operating conditions

Working temperature $t_{Operation}$ (°C)		$0 \leq t_{Operation} \leq 30$
Storage temperature $t_{Storage}$ (°C)		$-20 \leq t_{Storage} \leq 60$