

4K, HD video and digital stills | 20x optical zoom | LiquidOptics

The 1Cam Mk6 is built upon SubC's tried-and-true 1Cam product line. The sixth generation of this smart camera is designed to exceed the highest requirements of underwater systems for the oil and gas, marine research, and cinematic industries.

We offer various options to fit your research and system requirements such as live HD over coax, 4K over fiber optics, and a wide range of fiber optical wavelength and bulkheads.



Image credit: NOAA Cordell Bank



Optical Zoom

Capture the sharpest images with this 4k and HD colour 20x zoom camera.



Built-in Storage

Record and internally store hours of 4K and HD video (4K=11hr, HD=40+hr) and 1000's of digital stills.



Live HD and 4K Video

View your HD and 4K video live over fibre optics and conveniently transfer the footage and stills via USB topside.



Rugged

Stands up to even the harshest ocean environments thanks to the combination of the durable titanium and scratch-resistant sapphire lens.

Specifications		1Cam SD	1Cam HDC	1Cam UHDF
Sensor & Lens	Sensor	Back-illuminated Exmor R™ CMOS		
	Image Size	16.6MP - 5440 x 3056		
	Lens Aperture	F2.0 - F3.8		
	Lens Focal Length	26.8 - 536 @ Aspect Ratio 16:9		
	Lens Type	Zeiss T* Zoom 20x optical		
	Focus Range	0.1m to infinity (Auto and Manual)		
	Sensitivity	1.2 Lux (HD Low Lux)		
Internal Recording System	Image Format	JPEG		
	Still Rate	0.33Hz (1 still every 3 seconds)		
	Recording Resolution	HD and 4K UHD		
	Recording Capacity	40+hr (HD) / 11hr (4K) - 512GB		
	Recording Format	ACVHD (HD 28Mbps) and XAVCS (4K 100Mbps)		
	Media Transfer	USB		
Live Video	Live Video Standards	SD Composite	HD over Coax	HD and 4K over Fiber Optics
	Live Video Resolution	480/25/29.97p	1080/50/59.94p	4K/25/29.97p 1080/50/59.94p
	Optical Budget	20dB or 23dB		
LiquidOptics	Diagonal FOV	78° min.		
	Horizontal FOV	72° min.		
	Vertical FOV	48° min.		
	Distortion	4.0% max.		
Electrical	Voltage	17.5 - 32 Vdc		
	Power (W)	4 (idle), 8 (recording), 10 (peak)		
	Control	Serial (RS-232 and RS-485)		
	Protection	Short circuit, under/over voltage, ESD, over-temperature		
Mechanical	Materials	Sapphire, Grade 5 Titanium		
	Weight	2.2kg in water, 3.5kg in air		
	In-water Operating Temperature	-10°C to +30°C		
	Depth Rating	6000m		
	Dimensions	Length: 281mm, Front Ø: 101mm, Back Ø: 89mm		

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SubC is here to help you plan your next project.

Our equipment is available for direct purchase or rental.
To speak with an expert or schedule a demo please [contact us](#).