SubC Imaging

Rayfin Mk2 Benthic 6000m

Digital stills | Records in 4K & HD | Live Stream in 4K & HD video

The **Rayfin line** of subsea cameras is being used in various marine research applications around the world. Available with options for live 4K, HD, and IP video formats, the Rayfin Benthic is fully compatible with ROV, AUV, tow/drop, autonomous, and observatory systems.

The camera comes equipped with **Rayfin Control Software** and its modern interface, with real-time control and media download, makes it intuitive to use. The Rayfin comes standard with free software updates to keep your camera cutting-edge.

Built-in Storage

Record and store over 10 hours of 4K video, 40+ hours of HD video and thousands of digital stills. And, as a data-logger, the Rayfin Benthic has built-in depth, tilt and roll sensors, and can store NMEA sensor data.

High-Quality Optics

Capture the sharpest images in the harshest environments thanks to the scratch-resistant sapphire lens paired with water-corrected LiquidOptics™.

Real-time and Intuitive

Conveniently view and download your footage in real-time while effortlessly controlling your camera, lights and lasers from a topside PC.

Compatible with all Subsea Systems

Get the most out of your asset. From marine science observatories to offshore energy ROVs, the Rayfin's versatility provides high-quality footage no matter the application.

Easy Integration

Located on the back of the camera, auxiliary ports allow you to easily plug in lights, lasers, and other sensors, to enhance the quality of your footage.
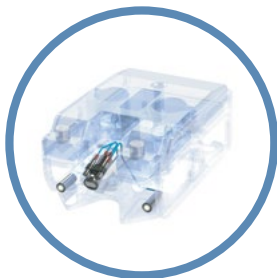
Time Lapse and Automation

Save time during longer-term projects, and automate workflows to reduce repetition by using autonomous scripting to capture time lapse videos and digital stills.

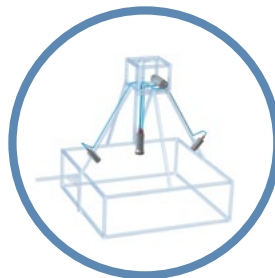| Specifications		Rayfin HDE	Rayfin HDC	Rayfin UHDF
Sensor & Lens	Sensor	Exmor RS™ CMOS 12-bit		
	Image Size	12.3MP - 4056 x 3040		
	Max. Exposure Setting	Shutter Speed 1/65000, ISO 3200		
	Lens	4.52mm f/2.0		
	Zoom	12.3MP sensor zoom (5x optical equivalent)		
	Focus Range	15cm to infinity		
Internal Recording System	Image Format	JPEG and RAW		
	Still Rate	3Hz (JPEG) / 0.5Hz (RAW)		
	Recording Resolution	HD and 4K UHD		
	Recording Capacity	40hr (HD) / 10.5hr (4K) - 512GB *Optional 1TB*		
	Recording Format	H.265 and H.264 - MP4		
	Media Transfer	Real-time over Ethernet		
	Clock Sources	Internal and NTP Server		
	Data Logging	NMEA 0183/2000 format @ 1Hz		
	Integrated Sensors	Tilt and Roll *Optional Depth*	Tilt and Roll	
Live Video	Live Video Standards	IP Ethernet *Optional Composite*	HD over Coax IP Ethernet	4K over Fiber IP Ethernet
	Live Video Resolution	1080/30p/25p (480/30p/25p)	1080/30p/25p	1080/30p/25p, 4K/30p/25p
	Live Video Latency	225ms ± 50ms	85ms ± 25ms	
LiquidOptics	Diagonal FOV	81˚ min.		
	Horizontal FOV	71˚ min.		
	Vertical FOV	57˚ min.		
	Distortion	Less than 3.4%		
Electrical	Voltage	16.5 - 32.5 Vdc		
	Power (W)	7.5 (idle), 8 (recording), 13.5 (peak)		
	Control	Ethernet, Serial RS-485		
	Protection	Short circuit, under/over voltage, ESD, over-temperature		
Mechanical	Materials	Sapphire, Grade 5 Titanium		
	Weight	1.6kg in water, 3.2kg in air		
	In-water Operating Temperature	-20˚C to +30˚C		
	Depth Rating	6000m		
	Dimensions	Length: 242mm, Front Ø: 101mm, Back Ø: 89mm		

Applications

Subsea Digital Stills

Subsea 4K & HD Video Survey

Autonomous Camera

Observatory

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.