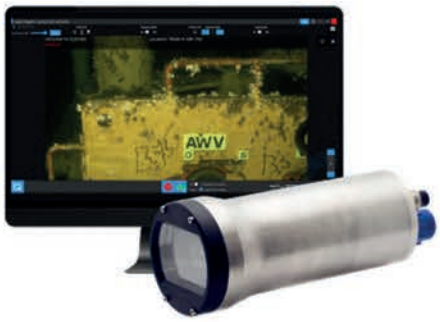
Rayfin Mk2 Benthic 6000m

Engineered Tough, Feature-Rich by Design.

SubC Imaging

High-Resolution Digital Stills | 4K & HD Video | ROV or Autonomous Operation

The Rayfin Mk2 Benthic is a high-performance subsea camera designed for deep-sea research, offshore inspections, and more. It integrates with ROVs, AUVs, drop systems, and observatories, offering real-time control, data logging, and high-resolution imaging. With internal recording and real-time data transfer, this flexible setup lets a single camera support battery-powered autonomous deployments and real-time ROV inspections, maximizing versatility and value.



Exceptional Imaging
- 4K/HD video and high-res stills
- Wide field of view and LiquidOptics™ for sharp, distortion-free images
- Real-time image enhancement and anti-turbidity mode for clear visuals and targeting

Internal or Topside Recording
- Flexible storage set-up maximizing the value of your camera
- Store hours of 4K video and thousands of stills

Built-In Data Logging
- Log tilt, roll, and other metadata alongside your footage
- Automatically embeds EXIF and NMEA data from GPS, altitude, and external sensors

Low-Latency Control & Seamless Integration
- Low-latency video for real-time visual feedback and camera control
- Real-time data annotation into video overlays and audio narration for clear, in-context documentation*

Autonomous Imaging Tools
- Built-in no-code script builder for automating capture, lighting, and sensor triggers
- Ideal for time-lapse, long-term monitoring, and event-based workflows

Core Capabilities

- ► Rated up to 6000m depth †
- ► 4K/HD video & high-resolution still image capture
- ► 10x digital zoom (equivalent to 5x optical zoom)
- ► Low-latency camera control & live viewing
- ► Rapid Digital Imaging (RDI) with adjustable capture rate up to 2Hz
- ► Real-time enhancement & anti-turbidity mode
- ► Embedded EXIF GPS-tagged, geo-referenced images
- ► Internal or topside storage with live video streaming
- ► Aux ports & integrated controls for lights, lasers, and sensors
- ► No-code scripting for automated capture
- ► Time-lapse & event-based imaging workflows
- ► Tilt, roll, & NMEA data logging

**In Topside Storage mode only*
† Also available with a depth rating up to 11,000m (11km)

Specifications		
Lens and Optics		Water-corrected, scratch resistant sapphire LiquidOptics™
Angle of View (in water)		81° diagonal with less than 3.4% distortion
Image Sensor		12.3MP | 4056 x 3040 pixels | 12-bit CMOS
Zoom		10x Digital (5x Optical zoom equivalent)
Focus Range		15cm to infinity
Ethernet Video		RTSP H.265 and H.264 - 4K | 1080p | 720p
Data Capture Modes	Real-Time Media Transfer	Real-time digital stills and data to topside over Ethernet | Stored on HDD, SSD or NAS
	Internal Storage	512 GB: 10+ hours of 4K video, 40+ hours of HD video and thousands of photos | Optional 2TB upgrade for 4x capacity
Media Formats		Video: MPEG4, H.264, H.265 | Stills: JPEG | Data: CSV
Control		Over Ethernet with provided SubC DVR+Overlay software | Rayfin API available for 3rd party integration
Data Logging		NMEA 0183 & 2000 format @ 10Hz
Clock Sources		NTP Server, Time from Data string
Aux Ports		Two ports, capable of powering and controlling LED Strobe/Lamps, Lasers and other devices
Built-in Sensors		Tilt and Roll, Optional Depth and Temperature
Voltage & Max. Power		16.5 - 32.5 Vdc @ 13.5 Watts
Protection		Short circuit | Under-over voltage | ESD | Over-temperature
Temperature (in water)		-20°C to +30°C
Depth Rating		6000m *(11,000m option available)*
Materials		Grade 5 Titanium, Delrin, Sapphire
Weight (in water)		1.6 Kg
Dimensions		Ø 101 | 241.5mm x 89mm

Specifications subject to change without notice.© 2010 SubC Control Ltd. All rights reserved. Rev. March 2025.

Built to Do More

The Rayfin isn't just a camera. It comes fully equipped with advanced software and built-in tools to capture high-quality imagery and log critical data. No upgrades needed. No add-ons required. Just everything you need, ready to go.

