

Rayfin Mk2 Coastal 500m

Feature-Rich and Field Ready.



Live video & control over low-cost twisted-pair cable | HD/4K video & digital stills

The Rayfin Coastal delivers high-performance, field-proven results for shallow-water and drop/tow surveys and inspections. With SubC's proprietary BPC (Boost-Power Comms) technology, you get power, video, control, and data over a single twisted pair or coax, slashing cabling costs and simplifying your setup.



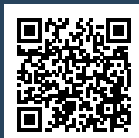
Stream live video to the surface while recording footage the way you need it—either to internal storage or directly to a topside PC. No matter the mission, you get real-time visibility and reliable, high-quality data capture every time.

Internal or Topside Recording

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

Core Capabilities

- ▶ Rated to 500m depth
- ▶ 4K/HD video and 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
- ▶ Depth, temperature, tilt, roll, and NMEA data logging
- ▶ Embedded EXIF GPS-tagged, geo-referenced images
- ▶ Internal or topside storage with live video streaming
- ▶ Power, video, control, and data over twisted pair or coax (BPC)
- ▶ Aux ports & integrated controls for lights, lasers, and sensors



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

Built-In Data Logging

- Log metadata such as depth, temperature, tilt, and roll alongside image and video files
- Automatically embeds your stills with EXIF data
- Capture additional NMEA data from external sensors, including GPS, altitude, and more

Low-Latency Viewing & Camera Control

- 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*

**In Topside Storage mode only*

Specifications

Lens and Optics		Water-corrected, scratch resistant sapphire LiquidOptics™
Angle of View (in water)		81° Diagonal 71° Horizontal 57° Vertical 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		Modes: Auto Anti-Turbidity and Full Manual Range: 15cm to infinity"
Ethernet Video		RTSP @ 4K 1080p 720p 480p Adjustable from 1 - 100 Mbps
Cable Length		Up to 410m
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, Roll, Depth and Temperature
Voltage & Max. Power		40 - 78 Vdc @ 18 Watts
Protection		Short circuit Under-over voltage ESD Over-temperature
Temperature (in water)		-20°C to +30°C
Depth Rating		500m
Materials		Anodized 6061-T6 Aluminum, Delrin, Sapphire
Weight (in water)		0.8 Kg
Dimensions		Front Ø 101mm Back Ø 89mm 241.5mm length excluding connector

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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.



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

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