Rayfin Mk2 Coastal 500m

Feature-Rich and Field Ready.

SubC Imaging

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

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*

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

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, 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		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.

