Rayfin Micro 500m

Compact Form. Feature-Rich Functionality.

SubC Imaging

Real-Time Digital Stills | 4K & HD Video | Annotation | Image Enhancement

Experience unmatched performance in a compact, lightweight subsea camera with the Rayfin Micro. Designed for observation-class ROVs, it delivers high-res stills and 4K/HD video for precise inspections and surveys. It offers real-time transfer of digital stills with strobe sync, live 4K/HD video, overlay, data logging, and image enhancement, all with immediate topside footage access or internal storage.



*Image not to scale

Low-Latency Viewing & Camera Control

- Ideal for ROV piloting
- Real-time data annotation into video overlays and audio narration for clear, in-context documentation*

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

Fast, High-Resolution Data Capture

- Rapid Digital Imaging (RDI) for fast, still capture with strobe sync—ideal for inspections and surveys where speed and image quality are critical

Internal or Topside Storage

- 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

*In Topside Storage mode only

Core Capabilities

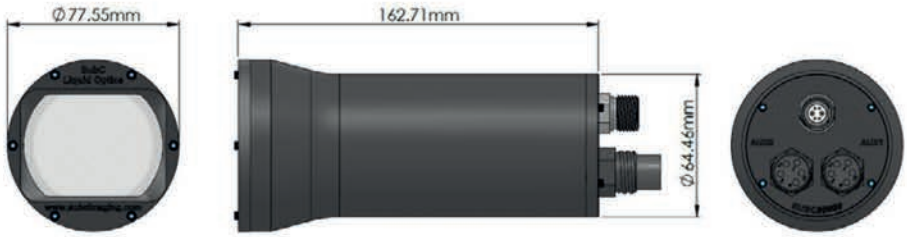
- ► Rated to 500m depth
- ► 4K/HD video & high-resolution still image capture
- ► 10x digital zoom (equivalent to 5x optical zoom)
- ► Low-latency live video for real-time camera control
- ► Rapid Digital Imaging (RDI) with adjustable capture rate up to 2Hz
- ► Real-time enhancement & anti-turbidity mode
- ► Tilt, roll, and NMEA data logging
- ► Embedded EXIF GPS-tagged, geo-referenced images
- ► Internal or topside recording with live video streaming
- ► Aux ports & integrated controls for lights, lasers, & 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 and Roll
Voltage & Max. Power		12 - 32.5 Vdc @ 7.4 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)		0.46 Kg
Dimensions		Ø 77.5 | 165mm x 64.5mm

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.



*Available in alternative bulkhead configurations