

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.



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.



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.



High-Quality Optics

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



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.



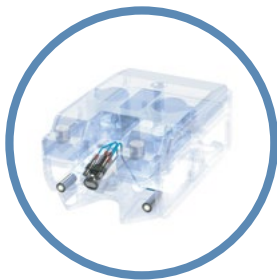
Time-lapse and Automation

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 <i>*Optional 1TB</i> | | |
| | 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 <i>*Optional Depth</i> | Tilt and Roll | |
| Live Video | Live Video Standards | IP Ethernet <i>*Optional Composite</i> | 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 | | |

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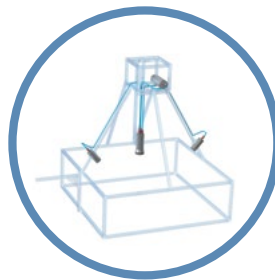
Applications



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](#).