

# Autonomous Timelapse System



## Advanced battery-powered solution for time-lapse imaging, environmental monitoring, research, and surveys

This upgraded system combines SubC's industry-leading Rayfin camera with advanced programmable software, offering unparalleled control over timelapse captures, lighting, and deployment-specific configurations. Designed for versatility to support both short-term surveys and long-term operations across battery-deployed setups such as drop frames, baited or unbaited landers, BRUV systems, and AUVs.

### Applications

Marine Biodiversity & Ecosystem Studies  
Long-Term Environmental Surveys  
Offshore & Subsea Asset Monitoring  
Scientific Research in Remote Locations  
Aquaculture, Fish Farm, & Fisheries Monitoring



### Features

SD, HD, 4K video recording & 12.3 MP digital stills  
Intuitive visual script builder for programming autonomous operations  
Adjustable white balance, focus, and exposure for optimal image quality  
Date, time, & sensor data logging  
Metadata (EXIF) embedded images  
Compatible with diverse battery-deployed setups  
Max operating depth up to 6,000m (Coming soon - 11,000m)  
Fast, secure downloads; easy video & image review  
Adjustable directory & file structures to easily manage timelapse data  
Camera status indicator for operational confidence

#### Optional:

*Biofouling control*  
*Exclusive hibernation mode for extended deployments*  
*High-efficiency LED lights*  
*Lasers for scaling & precise measurements*  
*Battery choices for various deployment durations & profiles*



Its intuitive interface lets users easily schedule captures, control lighting and lasers, and enable SubC's pioneering optional hibernation mode, maximizing battery life for both short-term and long-term deployments. Designed for experienced professionals and first-time users, it ensures precise and reliable performance.

With optional anti-biofouling technology and streamlined post-mission data transfer, the system delivers consistent, high-quality results while minimizing intervention. The Autonomous Timelapse System is the ultimate tool you can trust for self-operating video, image, and data capture for marine research, environmental monitoring, and offshore inspections.

Available as a standalone camera or integrated system with LEDs, lasers and batteries to suit your budget and deployment requirements.

## Specifications

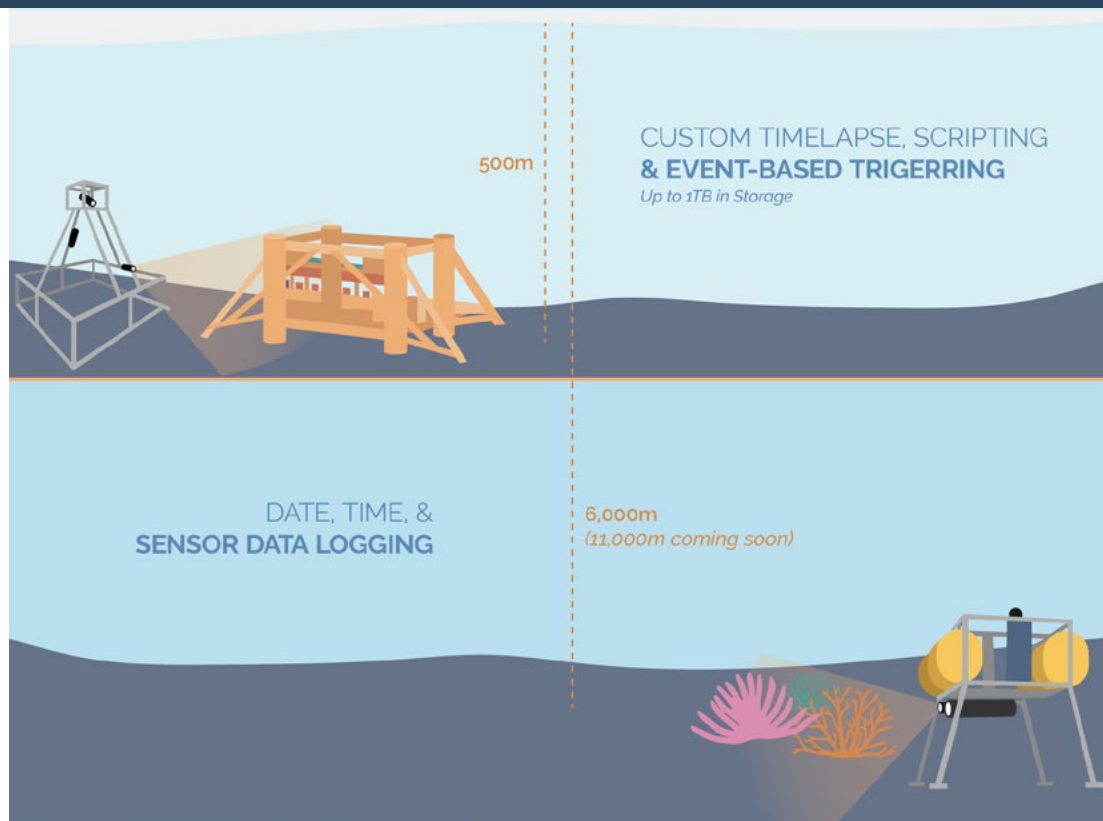
|                                      |   |                           |  |
|--------------------------------------|---|---------------------------|--|
| Digital Stills                       | 12.3 Megapixel  | Max Operating Depth       | 500m with Rayfin Micro   6000m with Rayfin Benthic<br><i>11,000m - Coming Soon Rayfin Trench</i>                                 |
| Video Resolution                     | SD   HD   4K  |                           |  |
| Sensors                              | Depth, tilt, roll, NMEA data logging  | Storage                   | Up to 1TB, expandable for extended data capture  |
| Data Analysis Integration            | BIIGLE  | Battery Options           | Supports integration with existing battery systems or optional SubC-sourced solutions tailored to meet specific deployment needs |
| Biofouling Control <i>(Optional)</i> | Wipers (<200m)  |                           |  |
| LED Lumens <i>(Optional)</i>         | 16,000 lumens (lamp) / 50,000 lumens (strobe) - 2x LEDs   | Operational Functionality | Supports autonomous and live monitoring modes. Adaptable and scalable for long-term investment in diverse applications           |
| Lasers <i>(Optional)</i>             | Parallel dots, lines, grids, or crosshairs for accurate scaling and measurements.<br>FDA-certified; qualified for shipping in the United States, Canada, and Internationally. |                           |  |

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“It’s the only off-the-shelf system I’ve come across that combines very high quality timelapse imaging with a hibernation mode...it’s made a huge difference in how we study ecosystems through time and has given us insights we couldn’t get any other way.”

*Dr. Todd Bond, Deputy Director, Minderoo-UWA Deep-Sea Research Centre  
Autonomous Timelapse System User*



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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