



# SubC Battery Powered Solution

featuring **Rayfin** 

## Timelapse digital stills and 4K/HD clips

*For camera deployments without a live video feed*

### Key Features

- 21MP digital stills (JPEG and RAW) with LED strobe synchronization
- 4K and HD video clips stored to 512GB solid state memory
- Compatible with various batteries for different deployment durations
- Scripting using SubC open-source API

### Harsh Conditions. Clearest Images.

The Marine Institute used the SubC Battery Powered Solution for a study to collect footage of species in a more natural state. Using far-red LEDs allowed capture of deepwater species that lack red cones in their eyes.



### Coming soon

- Video, image, and data time-stamped events with report generation
- Low-power hibernation mode for long hibernation cycles

See our [YouTube](#) tutorial series for more info  
Contact [team@subcimaging.com](mailto:team@subcimaging.com) for pricing and product info

*Rayfin camera, battery, LED strobe/lamp(s), parallel lasers or line/grid lasers*

For more information visit <https://www.subcimaging.com/battery-powered>

**Updated: 2020-02-12**

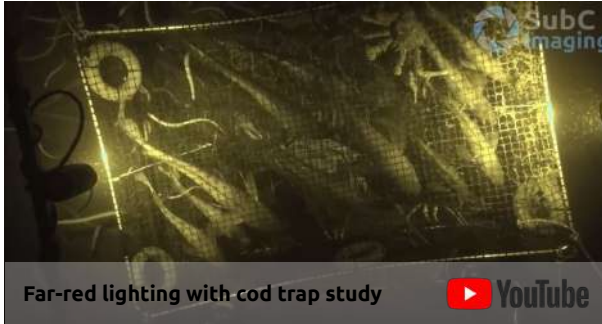


# High-Resolution Data for Studies



Proven solutions, used in many studies and publications

*Collect timelapse video clips and digital stills*



Far-red lighting with cod trap study

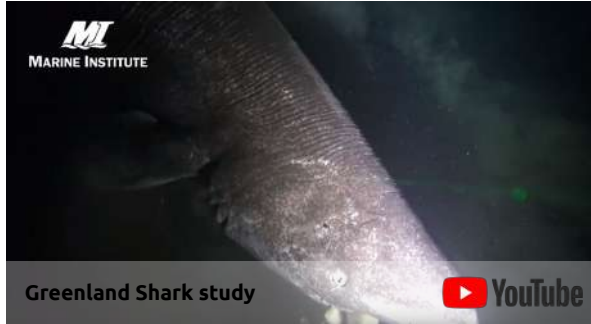


[Selective Fishing for White Hake Using Newfoundland and Norwegian Style Pots](#)

*Philip J. Walsh and Rennie Sullivan*

**Memorial University**

This study utilized SubC cameras, batteries and far-red LEDs to capture footage of species in a more natural state. Deepwater species lack red cones in their eyes.



Greenland Shark study



[First estimates of Greenland shark \(\*Somniosus microcephalus\*\) local abundances in Arctic waters](#)

*Brynn Devine and Laura Wheeland*

**Fisheries and Marine Institute**

A SubC camera and LED were included in a Marine Institute study of one of the longest living species of shark.



Biodiversity study



[Canadian Science Advisory Secretariat \(CSAS\) Overview of the biophysical and ecological components of the Labrador Sea Frontier Area](#)

*David Cote et al.*

**Department of Fisheries and Oceans (DFO)  
Canada**

A SubC camera was used to film the required footage and related data for analysis.

For more information visit <https://www.subcimaging.com/battery-powered>



# Autonomous Scripting

Events that can be based on specific or relative date and time

For full API reference see: <http://api.subcservices.com/>

The camera can sleep to conserve power, wake to take images, and record video at predetermined timings. LEDs, lasers and other peripherals are connected to the camera's aux ports and can be enabled in scripts. To get you started, examples and the full API is provided.

```
//Record 1080 video and RAW stills parallel, no idl
ExecuteOnStart: True

VideoResolution: 1920x1080
ImageFormat: RAW
MaxFileDuration: 00:04:30
BitRate: 100
VideoName: script7 ${yyyy}-${MM}-${dd} - ${hh}
StillName: script7 ${yyyy}-${MM}-${dd} - ${hh}
EnableStrobe

//Indicate that script started
WaitFor: 00:00:01
LampBrightness: 50
WaitFor: 00:00:01
LampBrightness: 0
WaitFor: 00:00:01
LampBrightness: 50
WaitFor: 00:00:01
LampBrightness: 0
WaitFor: 00:00:01
LampBrightness: 50
WaitFor: 00:00:01
LampBrightness: 0
WaitFor: 00:00:01

LampBrightness: 100
StartRecording
WaitFor: 00:00:05
StartContinuous
```

```
//Record 1080 video and RAW stills parallel, no idl
ExecuteOnStart: True

VideoResolution: 1920x1080
ImageFormat: RAW
MaxFileDuration: 00:04:30
BitRate: 100
VideoName: script7 ${yyyy}-${MM}-${dd} - ${hh}
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LampBrightness: 0
WaitFor: 00:00:01
LampBrightness: 50
WaitFor: 00:00:01
LampBrightness: 0
WaitFor: 00:00:01
LampBrightness: 50
WaitFor: 00:00:01
LampBrightness: 0
WaitFor: 00:00:01

LampBrightness: 100
StartRecording
WaitFor: 00:00:05
StartContinuous
```