



# SubC Battery Powered Solution

Timelapse digital stills and 4K/HD video clips



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

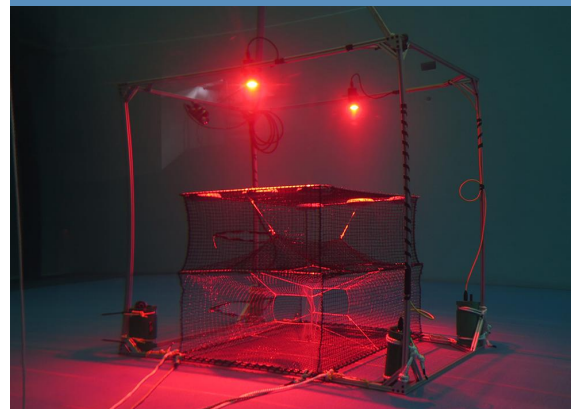
## Key Features

- 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
- NMEA sensor data-logging



**Harshest Conditions.  
Clearest Images.**

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



Contact [team@subcimaging.com](mailto:team@subcimaging.com) for pricing, rental information or live demonstration

# Real Clients. Real Projects. Real Results.



## 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.



## 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.



## 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**

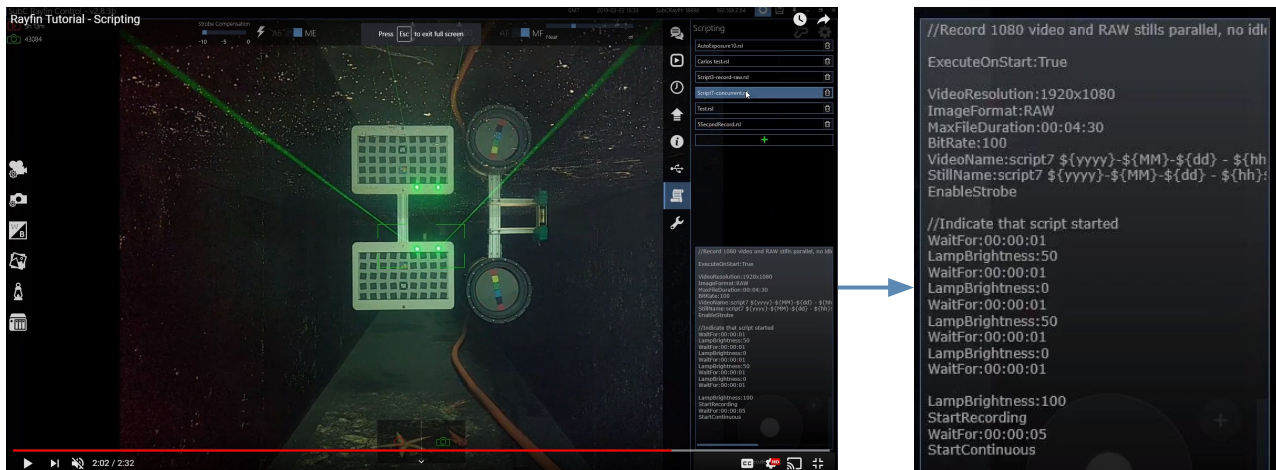
A SubC camera was used to film the required footage and related data for analysis.

# 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.



The screenshot shows the Rayfin Tutorial - Scripting interface. The main window displays a 3D simulation of a camera rig with various components like lenses, sensors, and actuators. The right sidebar contains a 'Scripting' panel with a list of script actions. A blue arrow points from the script editor to a detailed view of the script code.

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