

# CatchCam

## Underwater Camera System

**CatchCam**  
TECHNOLOGIES

**CatchCam** is a fit-for-purpose and robust underwater camera system designed for commercial and scientific vessels.



### Key Features

- Built for Harsh Conditions
- 300m or 800m Depth Rating
- Up to 28 Days of Scheduled Recording
- Easy to Attach and Deploy
- Multifunctionality
- Wireless Data Management

### Mechanical Characteristics

|                                 | CatchCam                                                                                               | CatchCam Deep       |
|---------------------------------|--------------------------------------------------------------------------------------------------------|---------------------|
| <b>Depth rating</b>             | 300 metres                                                                                             | 800 metres          |
| <b>Dimensions</b>               | L: 135mm, D: 64mm                                                                                      | L: 180 mm, D: 58 mm |
| <b>Weight (in air)</b>          | 385g                                                                                                   | 620g                |
| <b>Buoyancy</b>                 | Near neutrally buoyant                                                                                 |                     |
| <b>Operating Temperature</b>    | Min: 0°( 32°F) Max: +55°( 131°F)                                                                       |                     |
| <b>Field of View</b>            | Standard: 71° Wide angle: 120° (available on request)                                                  |                     |
| <b>Video Resolution</b>         | 480p (640 x 480 pixels)                                                                                |                     |
| <b>Video encoding</b>           | MP4 (MPEG-4 Part 14)                                                                                   |                     |
| <b>Camera focal length</b>      | 2.8mm                                                                                                  |                     |
| <b>Camera in-focus distance</b> | 30cm - infinity (standard). Can be modified as required.                                               |                     |
| <b>Selectable frame rates</b>   | Normal: 30, 25, 20, 15, 10, 5, 3 or 1fps<br>Timelapse: 0.5, 1, 2, 5, 10 or 20 min/frames<br>Scheduled: |                     |
| <b>Selectable exposure</b>      | Normal Mode, Low Light Mode                                                                            |                     |
| <b>Selectable clip lengths</b>  | 3, 5 or 10 minutes duration.                                                                           |                     |
| <b>Activation</b>               | Via remote control, via App, time-delay via App and scheduled.                                         |                     |

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|                           |                                         |                      |
|---------------------------|-----------------------------------------|----------------------|
| <b>Recording options</b>  | Video, Timelapse, Scheduled or Delayed. |                      |
| <b>Internal Battery</b>   | Lithium Ion battery (3.7V, 5200mAh)     |                      |
| <b>Charging Technique</b> | Wireless (Qi v1.2 protocol)             | Wired Power Transfer |
| <b>Input Power</b>        | USB-C PD, 9V, 2.2A, 20W                 | 5V, 3A maximum       |
| <b>Time to charge</b>     | 10 hours                                | 10 Hours             |

## Frame Rates and Battery Life

| Mode             | Battery Life  | Memory capacity (128 GB)* | 300m Download time for 1 hr | 800m Deep Download time for 1 hr |
|------------------|---------------|---------------------------|-----------------------------|----------------------------------|
| Standby          | 36 days       | N/A                       | N/A                         | N/A                              |
| Recording 1 fps  | 100 hours     | 900 hours                 | 3 mins                      | 3.5 mins                         |
| Recording 3 fps  | 90 hours      | 300 hours                 | 5 mins                      | 6 mins                           |
| Recording 5 fps  | 80 hours      | 180 hours                 | 10 mins                     | 12 mins                          |
| Recording 10 fps | 55 hours      | 90 hours                  | 20 mins                     | 24 mins                          |
| Recording 15 fps | 40 hours      | 60 hours                  | 30 mins                     | 26 mins                          |
| Recording 25 fps | 22 hours      | 36 hours                  | 50 mins                     | 60 mins                          |
| Recording 30 fps | 20 hours      | 30 hours                  | 60 mins                     | 72 mins                          |
| Scheduled        | Up to 28 days | Up to 100 days            | n/a                         | n/a                              |

\*The memory capacity can be increased to 256GB on request.

## Lamp brightness and Battery Life

| Mode                         | Brightness (Deep Red)                               | Brightness (White) | Battery Life |            |
|------------------------------|-----------------------------------------------------|--------------------|--------------|------------|
|                              |                                                     |                    | 300 m        | 800 m Deep |
| Standby                      | N/A                                                 | N/A                | 13 days      | 17 days    |
| Low Brightness               | 3 lumens                                            | 11 lumens          | 110 hours    | 148 hours  |
| Normal Brightness            | 30 lumens                                           | 125 lumens         | 20 hours     | 27 hours   |
| High Brightness              | 60 lumens                                           | 250 lumens         | 10 hours     | 13 hours   |
| Super Brightness             | 100 lumens                                          | 500 lumens         | 5 hours      | 6.75 hours |
| Flashing Mode (32Hz)         | Battery life extended by 1.3 - 1.9x.                |                    |              |            |
| <b>Selectable Colours</b>    | Deep Red (665 nm), White (6500K colour temperature) |                    |              |            |
| <b>Selectable Directions</b> | Front and Side (exclusive to 300m version)          |                    |              |            |
| <b>Activation</b>            | Via Remote (manual)                                 |                    |              |            |

Customise your CatchCam setup with **tailored package options**, including increased video resolution, additional memory, external battery packs, SmartLamp and antifouling for extended deployments. [Contact us to discuss your specific needs.](#)

Get access to information videos and user guides [here](#).

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