AveCam ESP – Experimental Unit
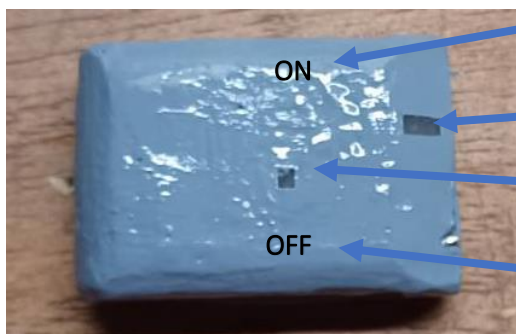
Operational Manual – November 2024

- This is an experimental unit and will work slightly differently to the other units.
- It does not have a USB cable to download video/configure setting, but uses Wi-Fi.
- The charging plug can be inserted in any orientation.
- It does not have a light sensor and will film in all light conditions – choose filming intervals carefully.
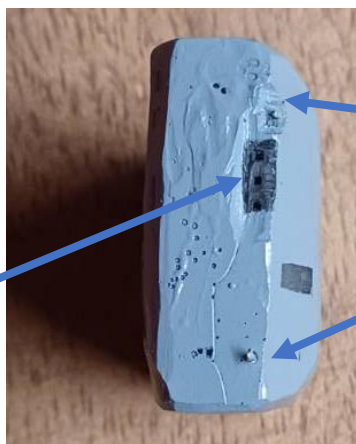
Logger description

OFF button – hold magnet here to switch OFF

Charging indicator: Red light -charging, green light – fully charged

Indicator light – This will come on when powered and flash every 10s during stand-by

OFF button – hold magnet here to switch OFF

Charging port

Salt water sensor.

These pins are also used to start the Wi-Fi for file download and configurations.

Charging -red

Charged - green

Camera operation

1 – Hold the magnet close to the on switch for 5 – 10 seconds. A red light will come on – keep the magnet in place until the red-light flashes

2 – The red light will flash every 10 seconds while in stand-by mode and will start filming once the initial delay has passed or the saltwater switch is triggered.

3 – To switch off, hold the magnet over the off switch. The indicator will stop flashing every 10 seconds

Connecting Wi-Fi

1 – Connect the charging cable.

2 – Use the crocodile clips to connect the two pins at the back of the logger (salt water sensor).

3 – Place a magnet on the ON switch and keep it there for the duration of the process.

Wi-Fi continued…

Once the camera has been set up as described above do the following on your computer:

1. Connect
- Connect to the Wi-Fi network named "AveCam"
- Open a web browser and type 192.168.4.1 and press ENTER
- You will see the following screen.

2. Download
- To download files, press "Download Video"
- Then select a file to download
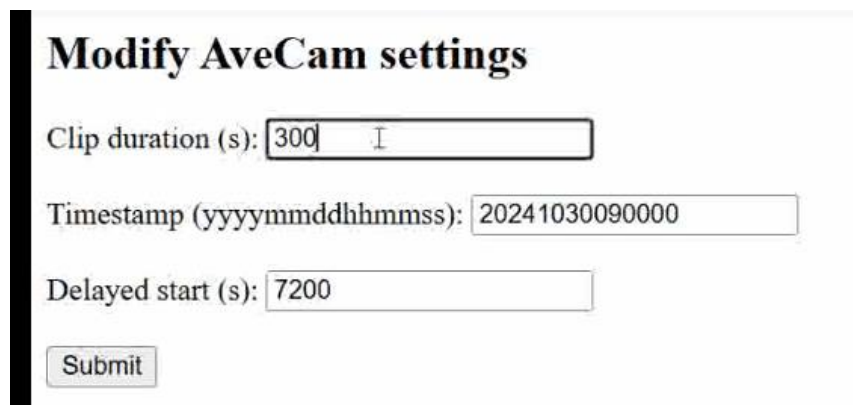- NOTE – you should only download one file at a time and downloading will take a long time for large files

- To delete all files press "Delete All .avi Files"

NB! There will be no warning once this button is pressed! All video files will be erased.

3. Modify Config

- To change the settings of the loggers press "Modify CONFIG"
- Clip duration (s) – this sets the duration of a single video clip. Recommended at 300-600 s.
- Timestamp – set the time to the exact time when the logger will be switched on. It is advisable to start the logger prior to deployment in the field, with a suitable delay.
- Delayed start – the time that the logger should go to sleep before filming starts. Note that the salt water switch will override this timer.
- Once done, click "Submit"

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Timestamp Note

The video file will be saved with the time recorded at saving – thus, the last frame in the video will have the timestamp in the file name.

Maintenance note:

Make sure to rinse the logger with fresh water after deployment taking care to clean the connector pins and saltwater switch to prevent corrosion.

It is advisable to cover the cable port with a water repellent, such as Vaseline (petroleum jelly) and then cover the port with Tesa tape. This will extend the lifetime of these pins.