



MOTION
LAPSE
TIME LAPSE CAMERA SYSTEMS

MOTION LAPSE

ML20

User manual version: 1.3

MOTION LAPSE PTY LTD
Brisbane, QLD
www.motionlapse.com.au



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1.0 TECHNICAL PARAMETERS

Brand	MOTION LAPSE
Model	MOTION LAPSE EV2 NIWWM
Power supply	10.2-12V
Power consumption	0,1W – sleep mode 1,5W – running mode 3,8W – when LTE modem connected, uploading files
Dimensions	MOTION LAPSE unit: 92mm (L) x 60mm (W) x 31mm (H) Time Lapse Case: 350mm (L) x 230mm (W) x 290 (H)
Weight	Time Lapse Case: 7.8kg (including battery)
Communication interface	Ethernet, LTE (GSM), Wi-Fi (2,4GHz)
Solar Panel	20W

2.0 DESCRIPTION

The MOTION LAPSE unit is a programmable intervalometer with special features. It is able to trigger a camera, get pictures from it and upload the images to a network storage system (e.g., Dropbox and our MOTION LAPSE image portal).

Main features are:

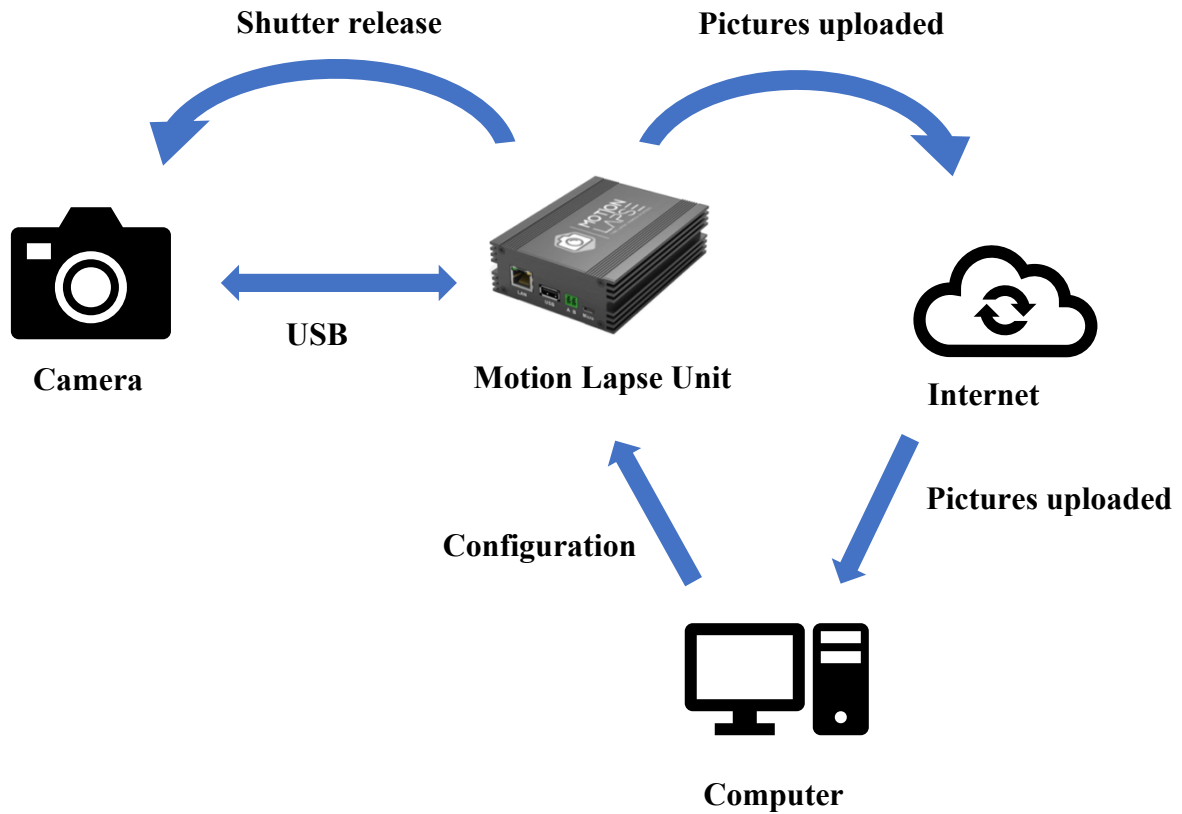
- A programmable intervalometer capable of a continuous stream of pictures for scheduled periods of time.
- Various storage options: Dropbox, FTP storage, and a MOTION LAPSE image portal (subscription service).
- Common DSLR and point-and-shoot cameras support. We recommend the Canon EOS 1500D.
- Low power sleep mode (suitable for solar and battery power).
- Ethernet, Wi-Fi, or 4G internet connection.
- USB trigger for camera.
- Local storage and fail-safe re-upload in the event of internet connection loss.
- Uploading pictures while simultaneously capturing new images.
- Voltage monitoring suitable for solar powering.
- Internet and meteorological sensors (temperature and humidity).
- Built-in power output for the camera.
- Email alerts for battery status, modem connection, solar panel status, and camera connection status.

2.1 CONTACT DETAILS

MOTION LAPSE

Email: support@motionlapse.com.au

3.0 HOW THE SYSTEM WORKS



The MOTION LAPSE unit provides an overview of your time-lapse photo sets. The figure above depicts how the MOTION LAPSE units operates. Using your personal computer you can configure the settings for your MOTION LAPSE unit. The MOTION LAPSE unit is connected to the Camera via USB. When photos are taken, as specified by the settings you choose, they are stored on the MOTION LAPSE unit and uploaded to your computer via the internet.

3.1 MODES

There are two different modes that the system can operate at: **Power-save (sleep) mode** or **Normal mode**.

3.1.1 POWER-SAVE (SLEEP) MODE

In POWER-SAVE mode the unit is sleeping for most of the time in order to minimise power consumption and preserve the battery.

The unit will turn on and off throughout the day depending on your settings. During the schedule you have set for the MOTION LAPSE unit, the camera may turn on and off at different times.

- If the ‘image capture duration’ is greater than 20 minutes: the camera will remain in power-saver mode → the camera will turn on 5 minutes before the image is scheduled to be taken → the camera will take the image at the scheduled time and transfer the image to your storage location → the camera will revert back to power saver mode until 5 minutes before the next image is scheduled to be taken.
- If the ‘image capture duration’ is 10 minutes or less: the unit will remain on throughout the entire schedule day; 10 minutes after the scheduled day the unit will enter power-save mode.

Outside of the schedule you have set, the unit will enter POWER-SAVE mode to sync with the server every 4 hours to check for any system changes made.

A 4G modem is used to upload the images and will only be switched on when you specify. If a previous upload was interrupted the system will attempt to re-upload the images again.

POWER-SAVE mode is suitable for solar and battery powered stations. During long periods of cloud coverage this mode is recommended to preserve the external battery so that your photo uploads may continue.

An example of a situation for POWER-SAVE mode may be as follows; the TIME LAPSE camera has been positioned in an area with minimal direct sun light and there is a forecasted extended period of rain (~ 3-5 days). The shaded area that the camera has been placed in and the rain will minimise the amount of direct sunlight that the solar powered unit may receive and therefore switching to POWER-SAVE mode would help in preserving the battery pack powering the MOTION LAPSE unit.

3.1.2 NORMAL MODE

In NORMAL mode the unit will remain running and functional. It is permanently connected to the internet and the pictures are uploaded to your computer via the internet after each shot. Real-time configuration is available. The battery life of the devices may be affected due to the constant supply of power in NORMAL mode.

3.2 BOOTING

There are some steps to activating your unit and accessing your images.

The MOTION LAPSE unit should have the following two steps already done but users should double check the following requirements before operating the MOTION LAPSE unit for the first time.

1. All the cables required will automatically be connected. Please ensure the battery is connected to the camera.
2. Ensure the camera is set to the 'Aperture-value / Aperture-priority mode' (indicated by the 'AV' on the top right-hand side of the camera. The recommended aperture value (or f value) in the AV setting is between f10 – f14 as this ensures both the foreground and background will be in focus.

The following steps indicate how to set the MOTION LAPSE unit up for the first time.

1. Turn on the camera.
2. Insert your own data SIM card from a mobile phone provider.
3. Change the 'Mode' setting on the MOTION LAPSE unit to 'Run'; a green LED light will appear after approximately 30 seconds.
4. Switch the camera to Automatic focus indicated by an 'AF' setting on the left-hand side of the lens.
5. Press the red 'test' button; the status LED light will flash white indicating the camera is about to focus itself and take a photo. The camera will beep to indicate that it is in focus and has taken a picture.
6. Switch the camera back to Manual focus indicated by an 'MF' setting on the left-hand side of the lens.
7. The camera is now ready to be used.

Manually changing camera settings; users can manually change the camera setting via the following steps.

1. Change the 'Mode' setting on the MOTION LAPSE unit to 'Test' allowing you to change any camera settings necessary. The status LED will flash blue once before remaining blue.
2. Change any necessary camera settings on the camera itself.
3. Change the 'Mode' setting on the MOTION LAPSE unit to 'Run'.

4. The camera is ready for use.

If no button is pressed the unit will start in either NORMAL or POWER-SAVE mode. In NORMAL mode the green LED signals that the unit has been switched on and is ready for use.

3.3 ACCESSING THE MOTION LAPSE UNIT

There are two ways of accessing the MOTION LAPSE unit. The first – **local access** – is for all users and requires the user to be within Wi-Fi range and connected to the units Wi-Fi. The second method – **remote access** – is available through a subscription which allows the user to access the camera anytime and anywhere.

3.3.1 LOCAL ACCESS

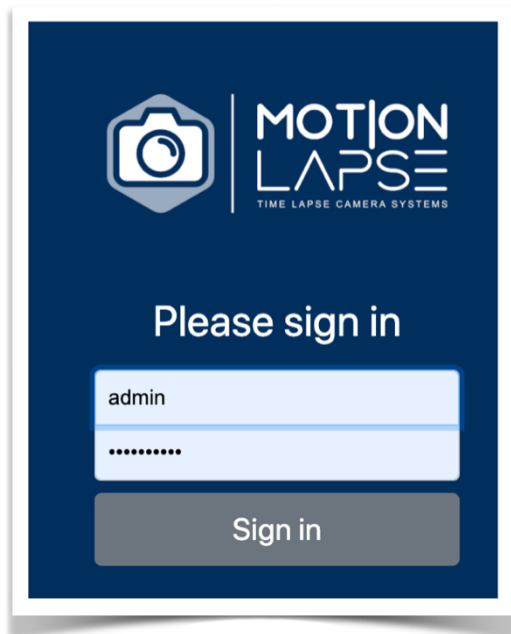
Every unit has a built-in configuration mode. In the configuration mode, the unit is accessible via a Wi-Fi access point named “ML – [serial#]” where [serial#] is replaced by the serial number for your specific unit.

For example if your serial number is 12345678 the Wi-Fi access point will be named “ML12345678”.

The MOTION LAPSE unit can be connected to via a laptop, smartphone, or tablet. The Wi-Fi password is 12345678

Note. Local access connection requires the user to be within Wi-Fi range of the MOTION LAPSE device.

Once connected to Wi-Fi users can type the following into your web browser to access the local system settings.



Enter **<http://192.168.3.1>** into your web browser.

The default login **username** is “admin”.

The default **password** is “admin”.

Note. It is recommended that users set up their transfer settings during this period since they will already be connected to the MOTION LAPSE unit Wi-Fi. To set up Transfer settings go to section 5.5 in the user manual.

4.0 CONFIGURATION

There are two methods to configuring the MOTION LAPSE unit. The first method – available for all users – can be done via the MOTION LAPSE local camera access portal (please see section 3.3.1) This method involves users being with Wi-Fi range of the MOTION LAPSE unit and connected to the Wi-Fi access point.

The second method is available through a subscription service and allows users to remotely configure the MOTION LAPSE unit via the MOTION LAPSE remote camera management service portal (please see section 6.0 in the user manual).

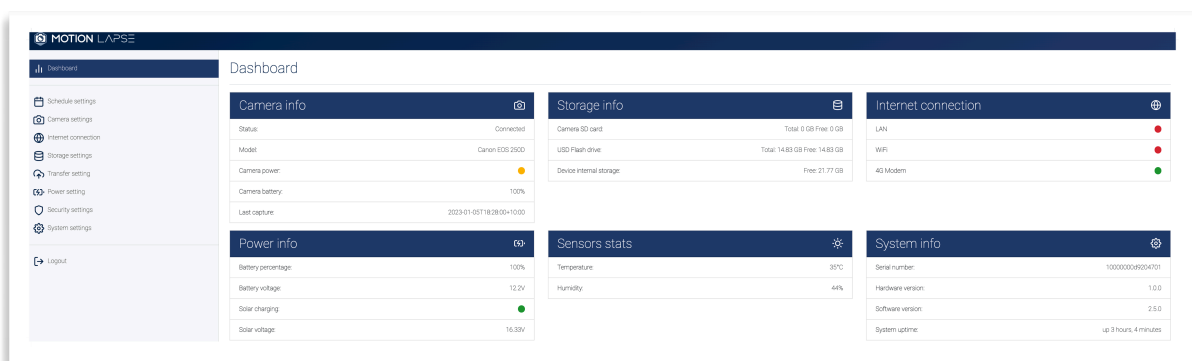
The web interfaces are responsive and can be loaded on various devices (e.g., laptop, mobile phone or tablet) with different screen resolutions.

4.1. UNIT CONFIGURATION (MOTION LAPSE LOCAL CAMERA ACCESS)



Note. Please scan the QR code to view a step-by-step walkthrough for each of the system settings on the MOTION LAPSE local camera access portal.

The first page of the MOTION LAPSE local camera access interface is the dashboard; here you can see the basic information of the unit.



Under the dashboard page you can see the following:

- **Camera info**...displays whether the camera is operational, the model of the camera, if the camera is turned on, the battery percentage of the camera, and the date and time that the last image was taken.



- **Storage info...** displays how much storage is available on the camera SD card, the USB flash drive and the devices' internal storage.
- **Internet connection...** displays whether the device is connected to LAN, Wi-Fi, and/or a 4G modem.
- **Power info...** displays the battery percentage of the battery pack powering the MOTION LAPSE unit, the battery voltage, whether the solar panel is operational, and the solar power unit voltage output.
- **Sensors stats...** displays the outside temperature and humidity.
- **System info...** displays the system serial number, the hardware and software version, and the system uptime.

5.0 SETTINGS

On the MOTION LAPSE local camera access portal there is a dashboard where you can access all the settings for your unit. The MOTION LAPSE local camera access portal can be accessed anytime by connecting to the MOTION LAPSE units' Wi-Fi and typing <https://192.168.3.1> into your web browser. The username and password are both admin.

The following settings include:

- **Schedule settings**
- **Camera settings**
- **Internet connection**
- **Storage settings**
- **Transfer settings**
- **Power settings**
- **Security settings**
- **System settings**

Note. When changing any settings please ensure you click on the 'Save' button in the bottom right of the webpage.

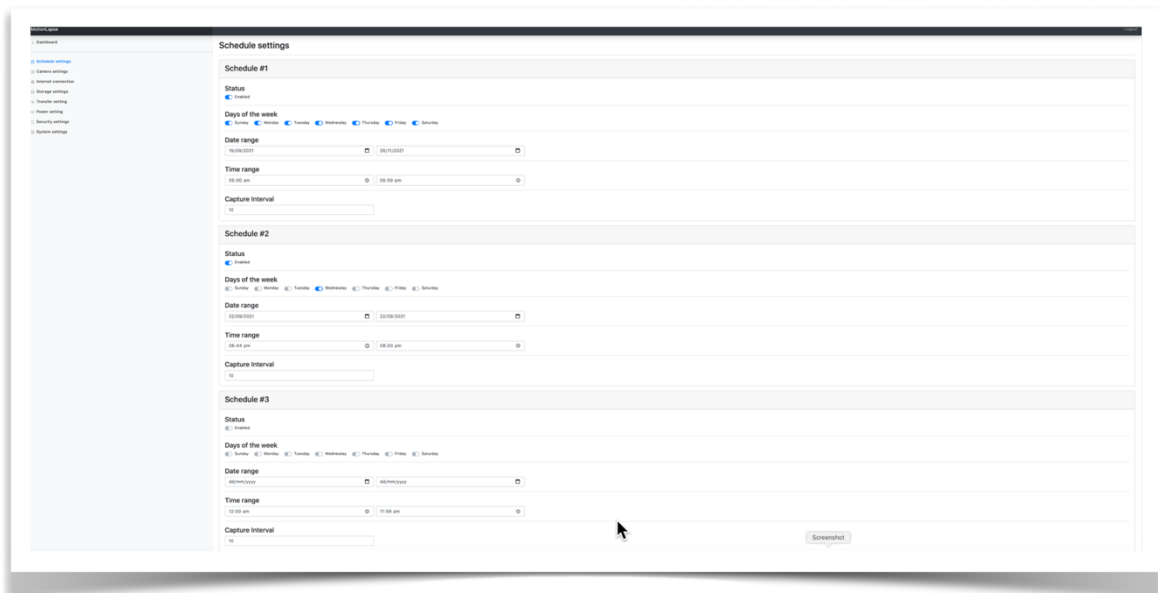
Note. Is it recommended that users change any MOTION LAPSE unit passwords from their defaults to a password that is more secure.

5.1 SCHEDULE SETTINGS

On the MOTION LAPSE portal you can access the schedule settings. There are 3 schedule settings meaning users can set the MOTION LAPSE unit to operate on different settings for different time schedules. For example users may want the MOTION LAPSE unit to capture images every 15 minutes during weekdays and every 2 hours during the weekend.

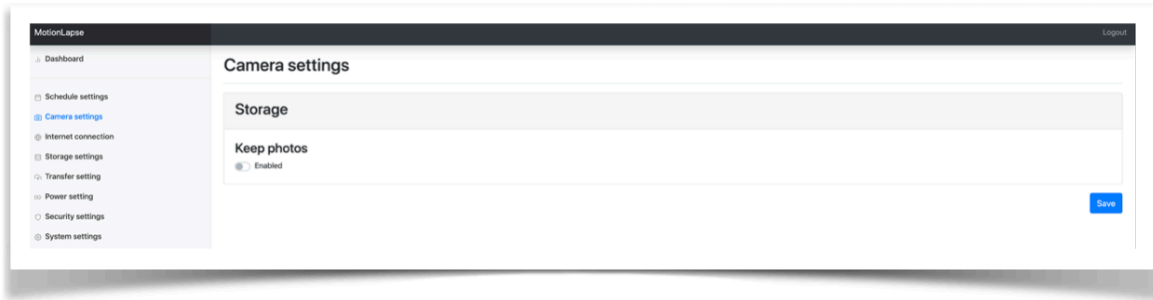
Within each schedule you can change the following settings:

- **Days of the week...** Users may select the days of the week pictures will be taken. E.g., users may only want images taken during the week and not on the weekend.
- **Date range...** Users can specify that pictures be taken between two specific dates.
- **Time range...** Users may specify that the camera only take pictures between certain times of the day.
- **Capture interval...** The capture interval is the unit of time between each image taken. E.g., a capture interval of 10 means that images will be taken every 10 minutes; a capture interval of 120 means that images will be taken every 2 hours. *Note. The minimum capture interval is 1 minute.*



5.2 CAMERA SETTINGS

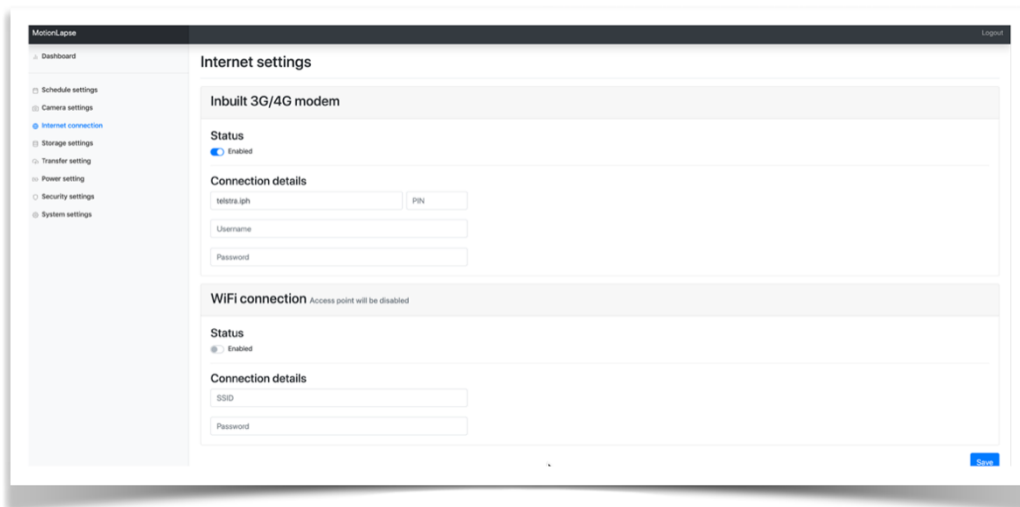
The unit supports a storage system where users can keep images stored on the camera memory card. The camera memory card will only have limited storage capacity depending on the size of the SD card installed.



5.3 INTERNET CONNECTION

Users may enable the MOTION LAPSE unit to connect to the internet via either **LAN, LTE, or Wi-Fi**.

The unit can be connected to LAN and Wi-Fi or LTE simultaneously. Note: LTE or Wi-Fi connection has a higher priority than LAN connection so the unit will prioritise uploading pictures using Wi-Fi or LTE connection even if the LAN is configured and there is a cable connected.



5.3.1 LAN

The unit supports both DHCP and a static IP address.

5.3.2 4G MODEM

For LTE configuration users will **need to know their Access Point Name (APN) and the number from their GSM provider**. Without this information the connection will not be successful. Users can connect to a 4G modem using the following steps.



- An APN is the name of the gateway for the 4G mobile device. Users can ask their mobile provider for the correct APN. **Users can also find it online at <https://www.vysoo.com/apn.php/>**
- User and password can be left blank in most cases.
- PIN protection for the SIM card must be turned off.
- Users can connect to the Wi-Fi access point by entering the SSID and password of the Wi-Fi network.

Note. During this process the Wi-Fi access point to control the unit will be disabled. To enable Wi-Fi access again please change the ‘Mode’ on the MOTION LAPSE unit to ‘Test’. Make the necessary changes to the internet connection settings and then switch the ‘Mode’ back to ‘Run’; the unit will revert to using the Wi-Fi selected to transfer/upload images to the selected online storage network.

5.3.3 Wi-Fi

For Wi-Fi connection it is necessary to know the SSID and password of the wireless network. Users can find the list of the nearest Wi-Fi access points through the scan button. Choose the network name and set its password. The unit can only access 2.4GHz Wi-Fi sites. When Wi-Fi is active the status light will flash blue every 15 seconds

In the MOTION LAPSE local camera access portal there is a ‘Scan’ button that will automatically bring up a menu of all nearby Wi-Fi networks. Select a Wi-Fi network to connect to and enter the necessary password.

Note. Connecting the MOTION LAPSE unit to Wi-Fi will remove the users ability to access the unit’s built in modem and make any necessary changes to the system settings. It is recommended that users (1) connect to the MOTION LAPSE inbuilt Wi-Fi access point to make changes first on the MOTION LAPSE local camera access portal before (2) connecting the MOTION LAPSE unit to Wi-Fi connection. The user cannot simultaneously connected to the MOTION LAPSE units’ Wi-Fi access point (to make system changes) while the MOTION LAPSE unit is connected to Wi-Fi connection – users can only do one at a time.

5.4 STORAGE SETTINGS

In the storage section users can change the format of their images and where the images will be stored. The images can either be stored locally on a device or online (online storage will be discussed in section 5.5 Transfer settings). Images can be stored locally on a SSD (solid-state drive) or a hard-drive.

5.4.1 GENERAL

Users can change the file format of the images and can select for images to be arranged by date.

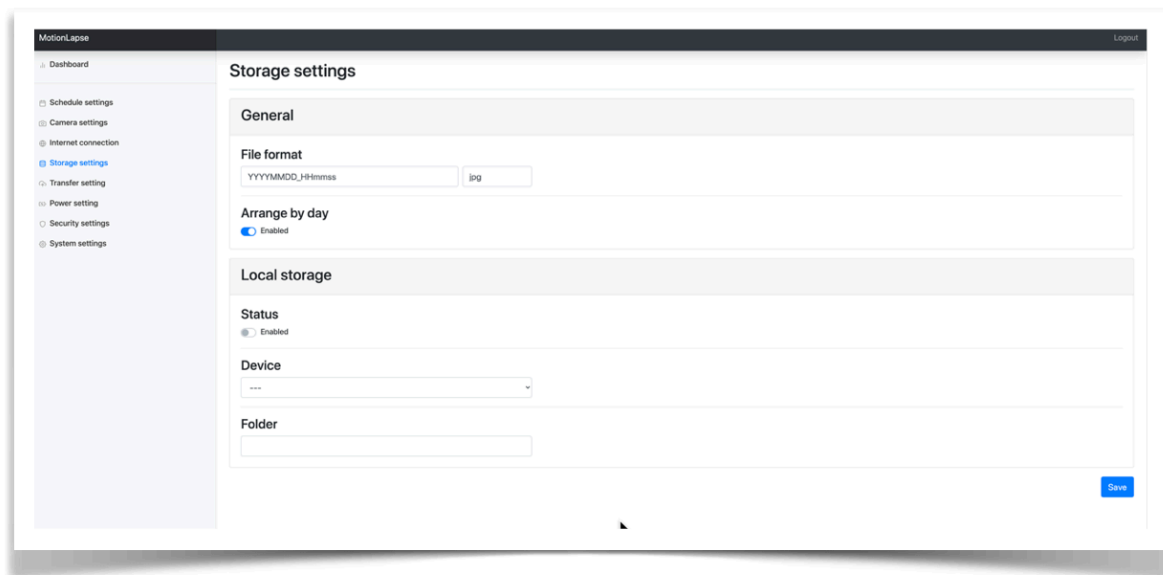
5.4.1 LOCAL STORAGE (Coming late 2023)

For images to be stored on a local storage device an SD card must be inserted into the unit or the device must be connected to an SSD disk via micro-USB – USB OTG cable. The SD card can be used as a fail-safe backup for images. The system supports SD cards up to 128GB.

It is recommended that users use **local storage** to save all pictures instead of the camera SD card due to any possible communication issues with the camera in situations where there are a lot of pictures saved.

5.4.2 REMOTE STORAGE

The pictures can also be uploaded to internet storage where users can easily work with them.



5.5 TRANSFER SETTINGS

All users can transfer images to either Dropbox, FTP server or an Amazon S3 bucket. Users can subscribe to the MOTION LAPSE image portal and/or the MOTION LAPSE remote camera management service.

The MOTION LAPSE image portal is a subscription service that provides users with features for accessing their camera images.

The MOTION LAPSE remote camera management service is a subscription service that provides users with the option to remotely control the system settings of their MOTION LAPSE unit.

Note. For non-subscribers please set up transfer settings during the initial camera installation as it requires the user to be connected to the MOTION LAPSE unit Wi-Fi access point and to access the MOTION LAPSE unit local camera access portal.



5.5.1 MOTION LAPSE IMAGE PORTAL (subscription service)

The MOTION LAPSE image portal is a subscription service that provides users with features for accessing their camera images.

Features include:

- **Camera feeds...** Allowing users to view all images captured by the MOTION LAPSE unit.
- **Image comparisons...** This feature allows users to compare 2 images from different dates.
- **Time lapse videos...** Create a time lapse video with selectable dates or use the quick 90 day Timelapse function.
- **Image search...** Allows the user to search for specific images from a certain date and time.
- **Email and download images...** Users can email and download any selected images.

Users may complete a subscription form on the website (<https://motionlapse.com.au/online-portal/>) to be emailed a username and password for the MOTION LAPSE image portal.

In your web browser navigate to <https://customer-login.motionlapse.com.au/login> and enter your username and password.



Note. Please scan the QR code to view a step-by-step video of how to link the MOTION LAPSE unit to the MOTION LAPSE image portal.



After logging in to the MOTION LAPSE image portal the user will be presented with the following screen displaying the camera feeds from the MOTION LAPSE unit.



5.5.2 Dropbox

Users can store their images online using Dropbox. In order to link the MOTION LAPSE unit to Dropbox please follow the instructions below or use the QR code to watch a step-by-step video.



Note. Please scan the QR code to view a step-by-step video of how to link the MOTION LAPSE unit to Dropbox.

Steps for linking the MOTION LAPSE unit to Dropbox:

1. Go to <https://dropbox.com/developers/apps>
2. Create app (choose options as you want or select app folder).
3. Name your app.

Create a new app on the DBX Platform

1. Choose an API

- Scoped access **New**
- Select the level of access your app needs to Dropbox data. [Learn more](#)



2. Choose the type of access you need

[Learn more about access types](#)

- App folder – Access to a single folder created specifically for your app.
- Full Dropbox – Access to all files and folders in a user's Dropbox.

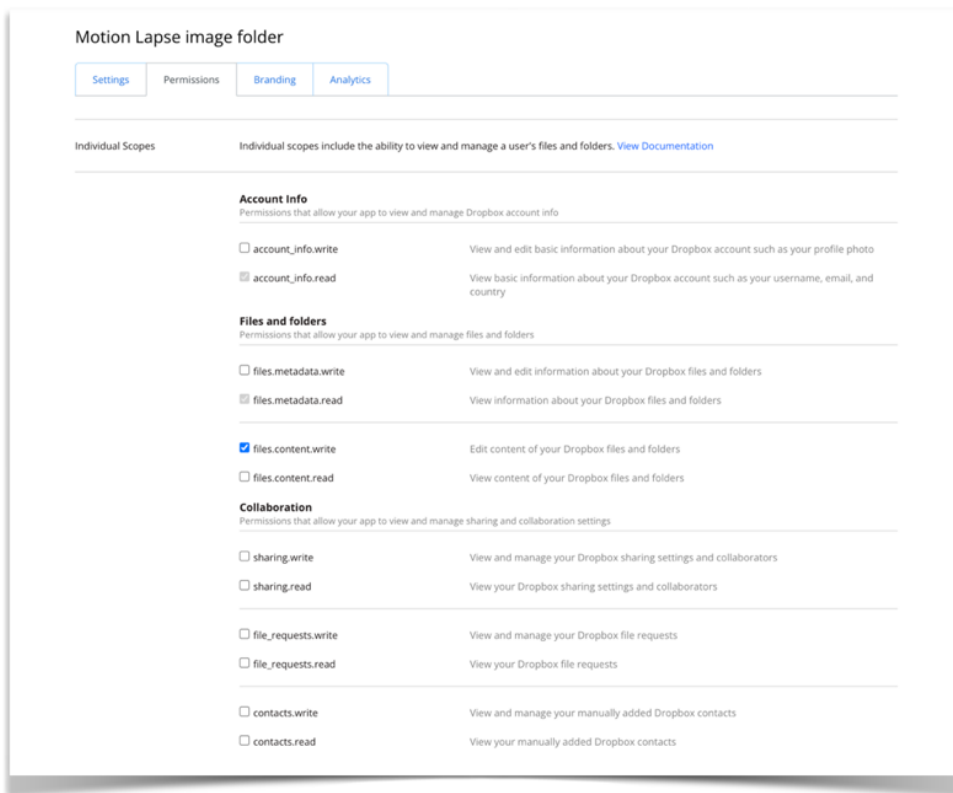
3. Name your app

January 2023 test|

Create app



4. Select the 'Permissions' tab and select the 'files.content.write' so that there is a blue check mark to the left of it. Click save.



5. Select the 'Settings' tab and next to the 'OAuth 2' setting on the bottom left please enter <https://remote-access.motionlapse.com.au/dropbox/auth> in the 'Redirect URLs' box.
6. Next to the 'App key' setting above the 'OAuth 2' setting please copy both the 'App key' and the 'App secret' key.



- Open the Motion Lapse portal (either locally or remotely) and in the transfer settings there is a 'Connection details' section: please paste the 'App key' and the 'App secret' key from Dropbox into the respective text boxes.

The screenshot shows the Motion Lapse portal interface. At the top, there are tabs for Settings, Permissions, Branding, and Analytics. Below this is a section titled 'Creating a Dropbox app' with three steps: 1. Configure app settings, 2. Select access scopes, and 3. Add branding. Below this is a 'Status' section with a 'Development' status and an 'Apply for production' button. The 'Development users' section shows 'Only you' and an 'Enable additional users' button. The 'Permission type' is 'Scoped App (App Folder)'. The 'App folder name' is 'January 2023 test' with a 'Change' button. The 'App key' is '3qmmko9ma2d81y7' and the 'App secret' is 'Show'. The 'OAuth 2' section has a 'Redirect URIs' field with the value 'https://remote-access.motionlapse.com.au/dropbox/auth' and an 'Add' button. Below this is a 'Dropbox' section with a 'Status' toggle set to 'Enabled'. The 'Connection details' section has an 'App key' field, an 'App secret' field with a 'Get code' button, a 'Code' field, and a 'January test 2023' field. A red arrow points from the 'App key' field in the 'Connection details' section to the 'App key' field in the 'Creating a Dropbox app' section.

- Click 'Get code'; the following will appear, please click continue. A second pop-up will occur; please click allow.

Before you connect this app...

Make sure that you know and trust this developer. Allowing apps from developers you don't know may put your data at risk.

Why am I seeing this warning? This app only has a small number of users and may not be the app you were intending to link.

Click **Cancel** if you are unsure whether you should be connecting an app to your Dropbox account. You can also learn more about [what to look for when connecting an app](#).

January 2023 test would like to:

- Edit content of your Dropbox files and folders, only within the Apps > January 2023 test folder
- View basic information about your Dropbox account such as your username, email, and country

[Learn about permissions](#)

You can disconnect apps anytime in [connected apps](#) within your account settings.



9. A new screen will pop up with a code. Please copy the code and navigate to the MOTION LAPSE portal (either locally or remotely). Under 'Transfer settings' paste the code into 'Code' box.



10. Done, the MOTION LAPSE unit will begin transferring images to Dropbox.

5.5.3 FTP STORAGE

Configuration of the FTP storage can be done by entering the URL of your FTP server.

1. Enter the URL of your FTP server in the 'Transfer settings' on the Motion Lapse portal.
2. Enter the folder and credentials for where the images will be uploaded.

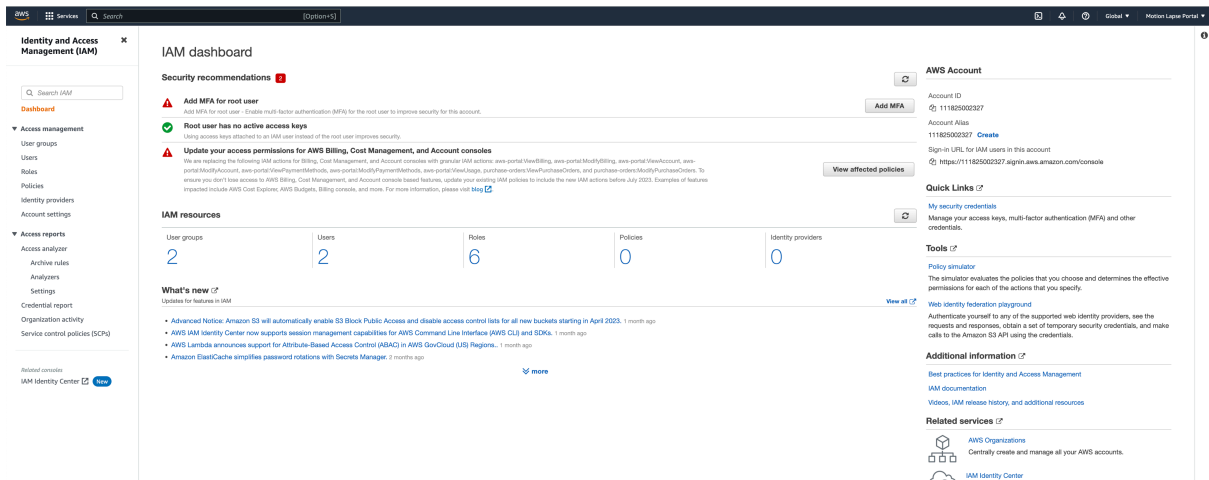


5.5.4 AMAZON S3 BUCKET

Connecting the AMAZON S3 Bucket to the MOTION LAPSE portal can be done by following the steps below.

1. Navigate to <https://s3.console.aws.amazon.com/s3/get-started?region=ap.southeast-2> and sign in or create a new account.

2. Go to the IAM dashboard so that you can set users.



The screenshot shows the AWS IAM dashboard. On the left, the 'Access management' tab is selected, with 'Users' highlighted. The main content area displays 'IAM dashboard' with security recommendations and IAM resources. The 'IAM resources' section shows a table with the following data:

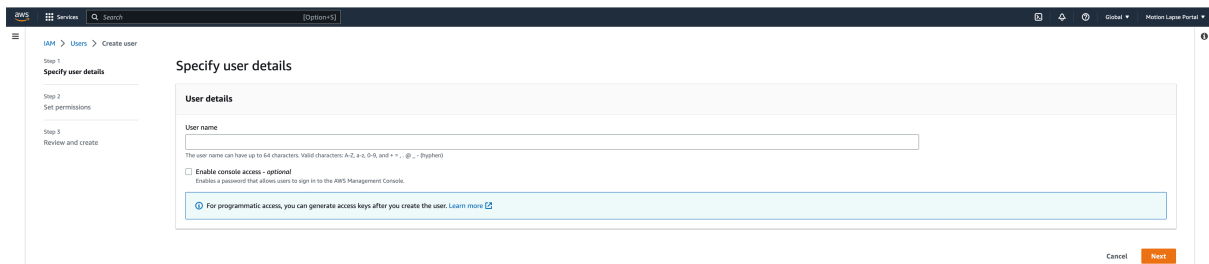
User groups	Users	Roles	Policies	Identity providers
2	2	6	0	0

Below the table, there is a 'What's new' section with updates for IAM.

3. Under the 'Access management' tab on the left side bar click on 'Users' and then click on blue 'Add users' box.

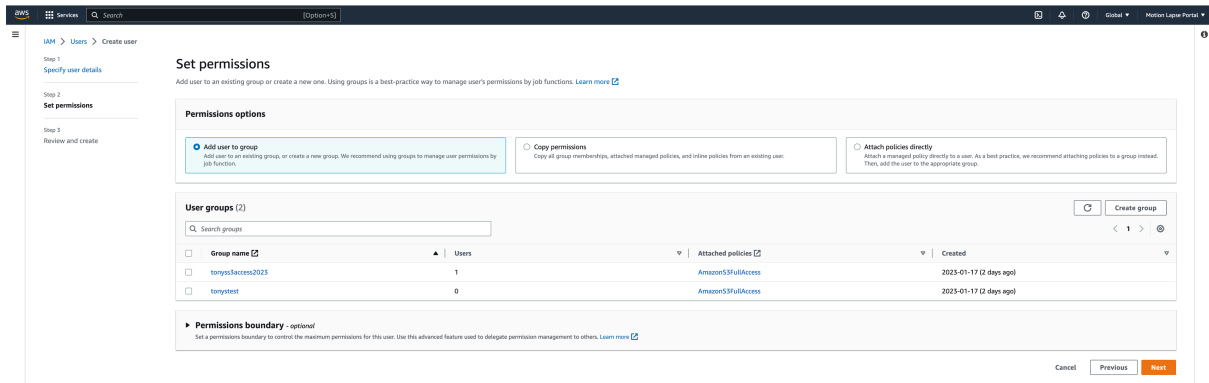
4. There will be three steps to creating a new user.

a. The first is to 'Specify user details' where you will type in a user name in the 'User name' box.



The screenshot shows the 'Specify user details' step of the 'Create user' process. It includes a 'User details' section with a 'User name' input field. Below this, there are options for 'Enable console access - optional' and a note about generating access keys for programmatic access.

b. The second is to 'Set permissions' where you can add other users to your groups.

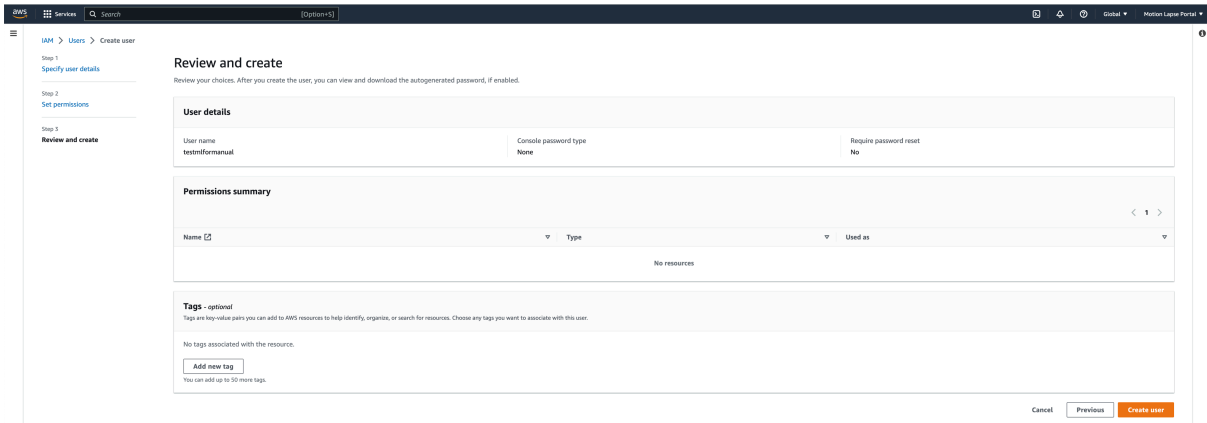


The screenshot shows the 'Set permissions' step. It features 'Permissions options' with three radio buttons: 'Add user to group' (selected), 'Copy permissions', and 'Attach policies directly'. Below this is a table of 'User groups (2)':

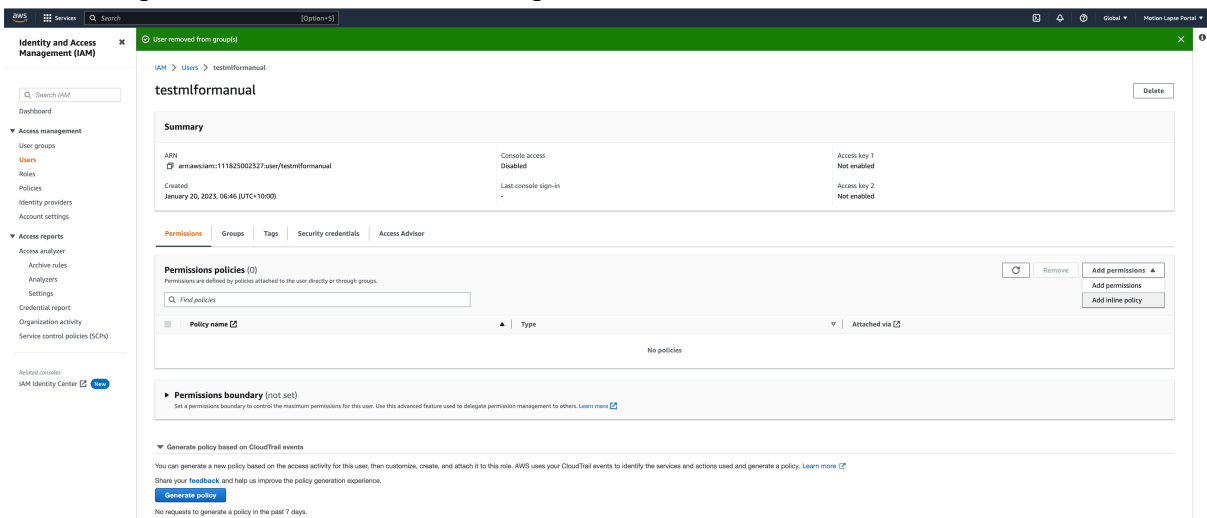
Group name	Users	Attached policies	Created
longssAccess2023	1	AmazonS3FullAccess	2023-01-17 (2 days ago)
longstest	0	AmazonS3FullAccess	2023-01-17 (2 days ago)

At the bottom, there is a 'Permissions boundary' section with an optional checkbox.

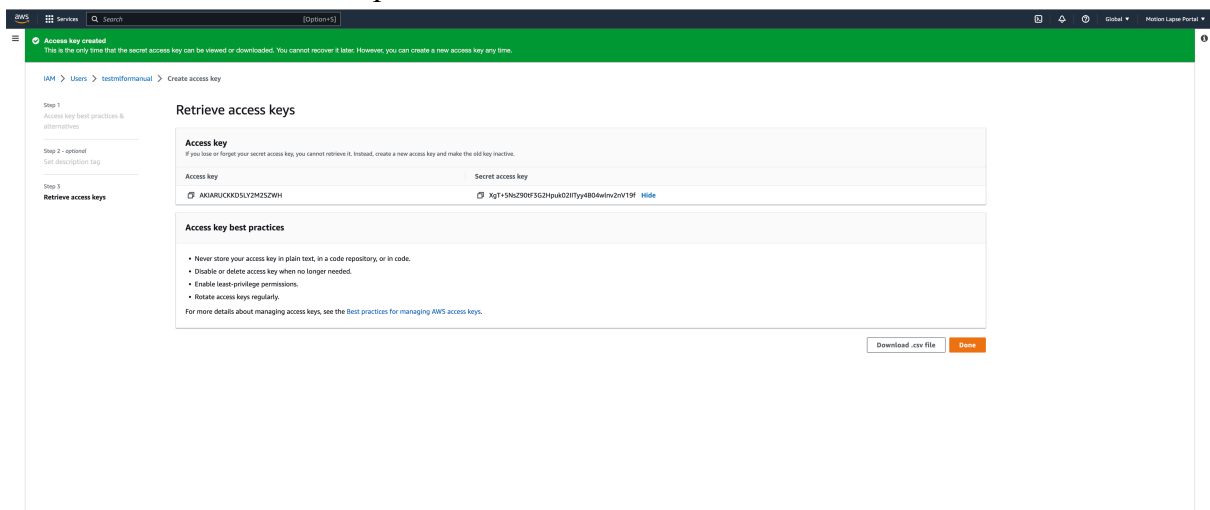
c. The third is to review the user details and the permissions you have set.

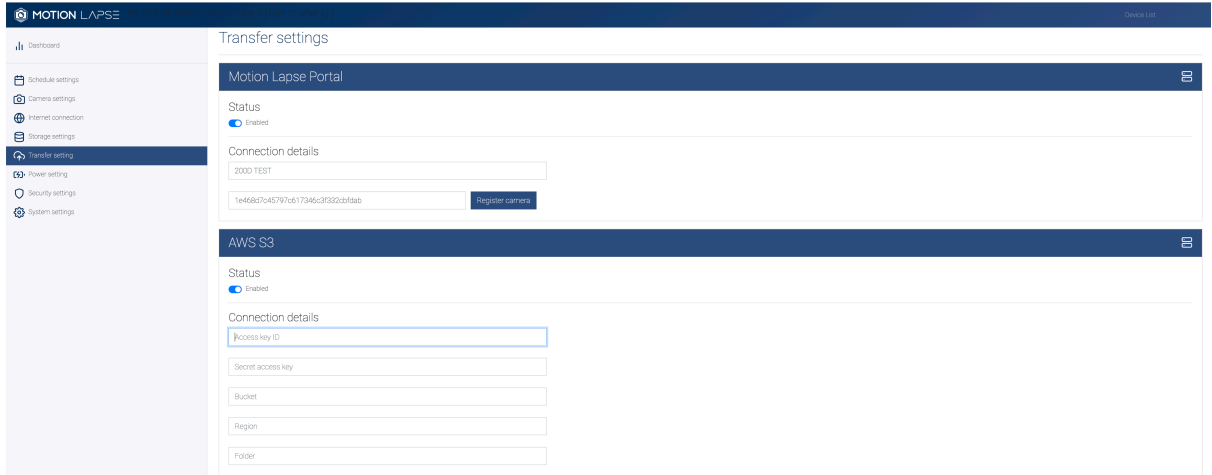


5. Now navigate back to the Identity and Management page, under the 'Access management' tab on the left click on 'Users'. On the right hand side you will see a dropdown box with the text 'Add permissions'; click on this and select S3 access.

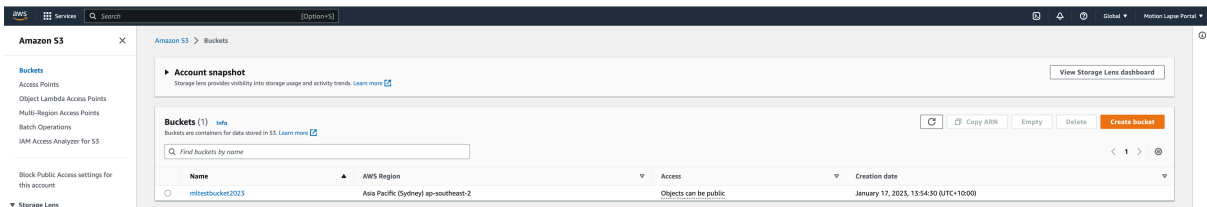


6. Click on 'Security credentials' and under 'Access key' click on 'Create access key'; copy and paste those access keys into the 'AWS S3 section' in the 'Transfer settings' in the MOTION LAPSE portal.

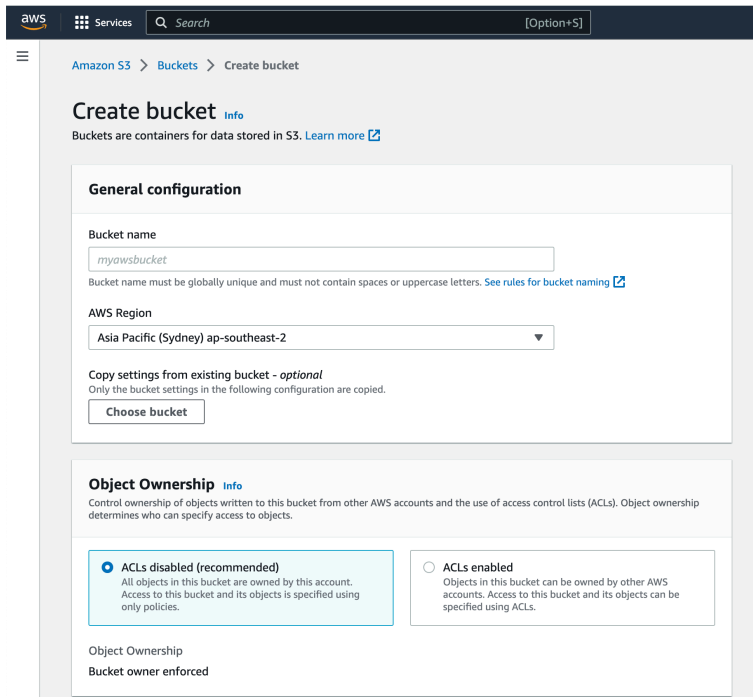




7. On your web browser navigate to your Amazon S3 web page; click on 'Buckets' on the left side bar. Click on the orange 'Create bucket' button on the right side of the web page.



8. Name your bucket.



- a. Click block public access if needed.



Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- Block public access to buckets and objects granted through *new* access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- Block public access to buckets and objects granted through *any* access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- Block public access to buckets and objects granted through *new* public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- Block public and cross-account access to buckets and objects through *any* public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning

Disable

Enable

Tags (0) - optional

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

- b. The default encryption key type should be 'Amazon S3-managed keys'; once these settings are correct click on the orange 'Create bucket' button on the bottom right.

Default encryption [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption key type [Info](#)

Amazon S3-managed keys (SSE-S3)

AWS Key Management Service key (SSE-KMS)

Bucket Key

When KMS encryption is used to encrypt new objects in this bucket, the bucket key reduces encryption costs by lowering calls to AWS KMS. [Learn more](#)

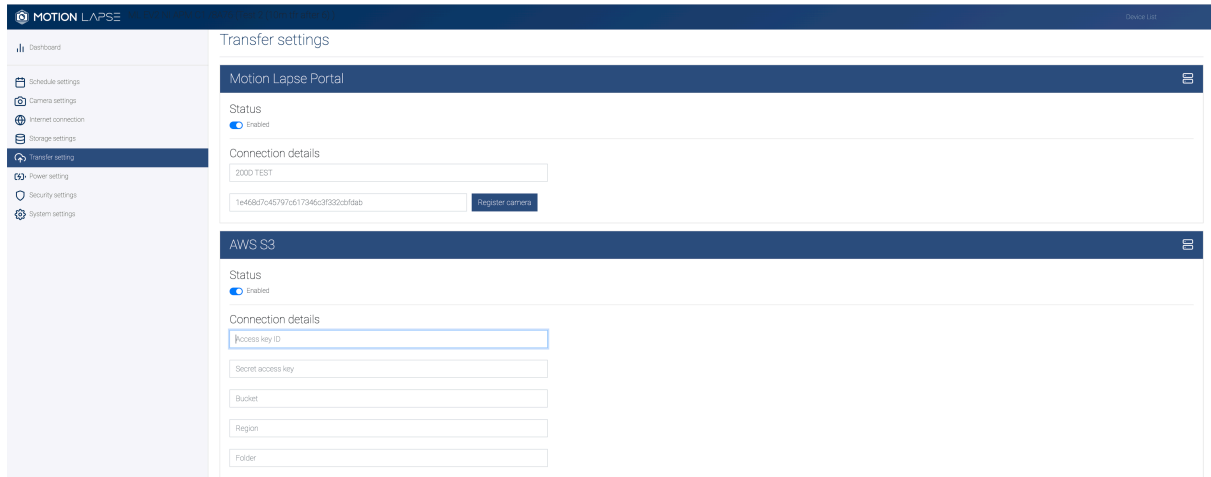
Disable

Enable

► Advanced settings

[ⓘ](#) After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

9. Copy the 'Bucket name' and 'Region' into the transfer settings in the MOTION LAPSE portal; click save.



5.5.5 TRANSFER MODE

Users can change when the MOTION LAPSE unit will begin the process of transferring images to an online storage location. For example users could select the transfer mode ‘Transfer after 10’ which means that the unit will start the transfer process after 10 images have been taken. This is useful when a short ‘image capture duration’ is set as users can change the ‘transfer mode’ so that the transfer process only begins after a specified number of images have been taken.



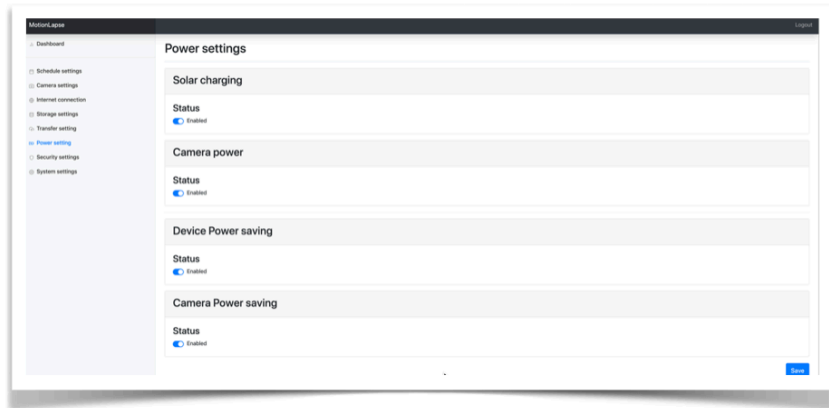
5.6 POWER SETTINGS

In the power settings users can change how the device is powered. It is recommended that all these settings are enabled. Users can change the power settings of the unit and whether the device will be powered via the solar panel connected.

Under Power settings users can see the following:

- **Solar charging...** Enable this if there is a solar panel connected.
- **Camera power...** Enable this to power on the camera. This made be disabled for testing.
- **Device power saving (Sleep mode)...** Enable this to put the unit into sleep mode. 20 minutes after the last photo was taken the unit will power back on every 4 hours only to check internet connection and for any updates to the camera or schedule settings.

- **Camera power saving...** Enabling this will deactivate the camera periodically to save power.



Note. We recommend that all the above settings remain active and should only be changed for troubleshooting reasons.

5.7 SECURITY SETTINGS

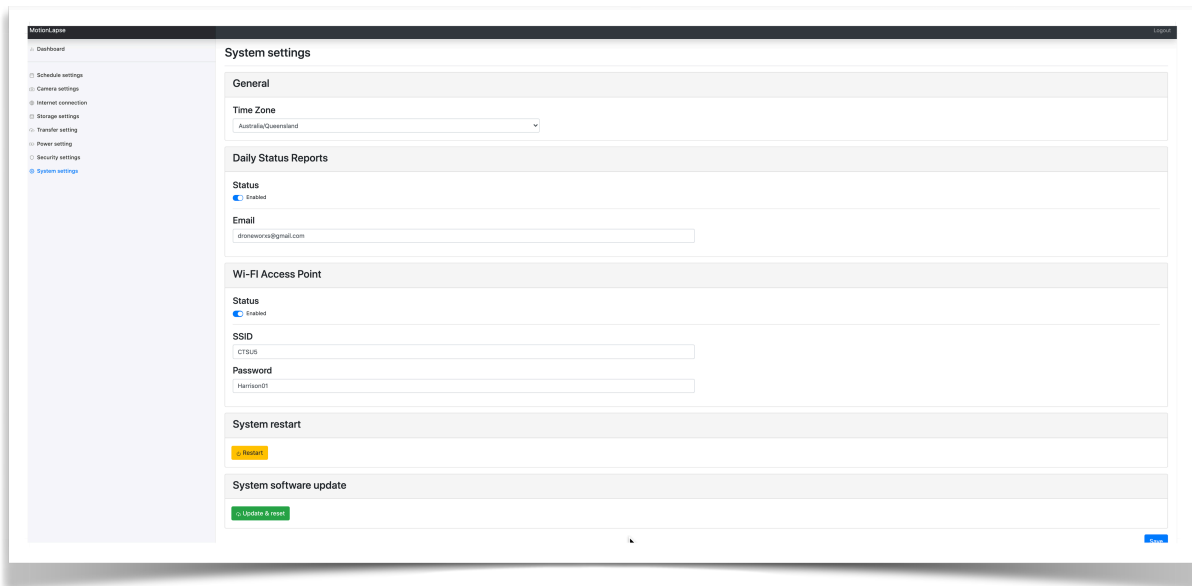
Security settings allows users to change your username and password.

5.8 SYSTEM SETTINGS

The base settings include the unit name and the time zone of the unit's location. The name is the user's identification of the unit. Daylight savings time is involved in the time zone settings. This can cause changing of light conditions due to the time difference.

Under system settings you can see the following:

- **Time zone...** Sets the time zone for the camera.
- **Daily status reports...** Allows email to be sent to a nominated address to notify potential issues or system updates.
- **Wi-Fi access point...** This Wi-Fi access point will allow the user to create their own SSID and password for the unit. **The initial SSD will be "ML[serial#] and the password will be 12345678**
- **System restart...** will trigger a system restart.
- **System software update...** will allow users to update the unit to the latest software.



6.0 MOTION LAPSE SUBSCRIPTION SERVICES

MOTION LAPSE offers two subscription services. The first – **MOTION LAPSE remote camera management** – allows users to remotely manage their units’ system settings anytime and anywhere. The second – **MOTION LAPSE image portal** – provides users with an alternative interface to accessing their time lapse photos as well as extra features.

To subscribe to the MOTION LAPSE remote camera management please navigate to <https://motionlapse.com.au/remote-access/> or click the button below.

[Remote Camera
Management](https://motionlapse.com.au/remote-access/)

To subscribe to the MOTION LAPSE image portal please navigate to <https://motionlapse.com.au/online-portal/> or click the button below. **Please see section 5.5.1 for information on the MOTION LAPSE image portal.**

[Image Portal](https://motionlapse.com.au/online-portal/)

If you are having any troubles applying for a subscription please email support@motionlapse.com.au

6.1 MOTION LAPSE REMOTE CAMERA MANAGEMENT SERVICE

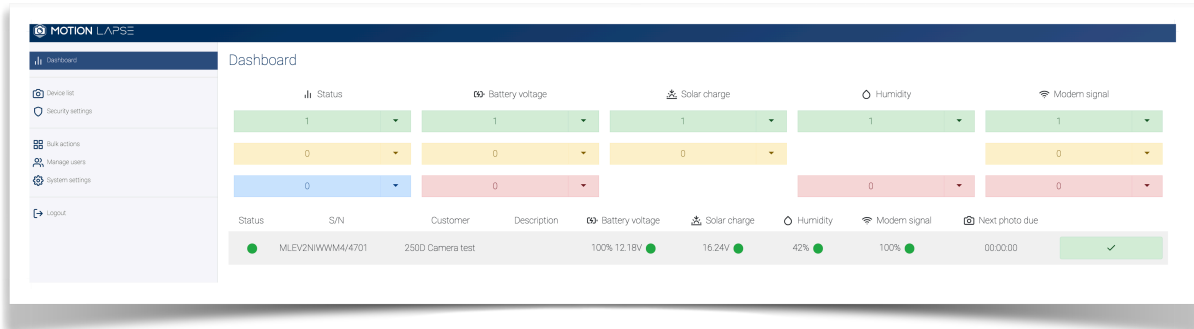
Typically users would have to be within Wi-Fi range of the MOTION LAPSE unit and connected to the unit’s Wi-Fi access point to change any system settings of the unit. The Remote Camera Management service allows users to make these system setting changes remotely (i.e., you do not have to be near the unit or connected to the units’ Wi-Fi access point).

When the unit is in ‘Normal mode’ it is possible to access the unit directly and change system settings in real time.

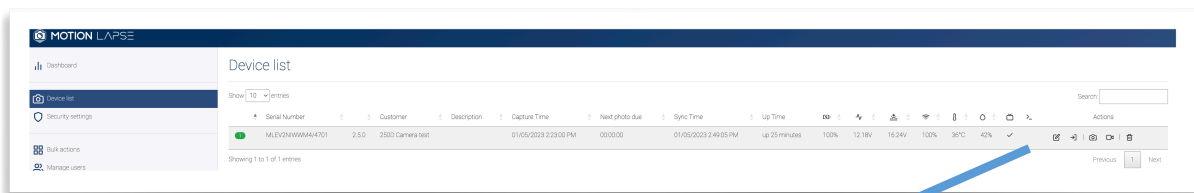
When the unit is in ‘Power-save mode’ it is possible to change only some of the system settings; applied changes do not work in real time but will be applied at selected times (roughly every 4 hours).

After purchasing a subscription the user will be emailed a user name and password. In a web browser (e.g., Google Chrome or Safari) navigate to <https://remote-access.motionlapse.com.au/auth/login> and enter the username and password provided.

After logging in users will be presented with a dashboard that displays information on the unit status, the battery voltage of the camera, the solar charge remaining, the modem signal, and information regarding humidity.



Under device list users can see the status of each device.



Click here to access the same settings that would be available on the local camera access portal. You can change the same settings that non-subscribers can however you can do this remotely and are not required to physically be within Wi-Fi range of the MOTION LAPSE unit.

Note. In normal mode it is possible to access the unit and change system settings in real time; the camera unit will sync every 15 minutes to check for new updates. In power save mode it is possible to set only some of the settings; applied changes do not work in real time and may take up to 4 hours for the system changes to take effect.

6.1.1 BULK ACTIONS

Bulk actions allow the user to update the software and system settings for multiple cameras at once.

7.0 SAFETY AND TROUBLESHOOTING

Please read the safety instructions carefully and store them for future use. Failure to follow these instructions may result in a voided warranty and lost access to free support for the unit.

7.1 SAFETY INSTRUCTIONS

- Please keep these instructions in a safe place so you can access them easily.
- The device must only be used by individuals properly trained to use the device safely or must be directly supervised by a qualified person who is responsible for the operators safety.
- The voltage stated on the product label must correspond with the voltage on the wall socket that it is plugged into.
- The device requires at least 8V – 1A power supply. If you don't use a power supply with proper voltage level you may risk damaging the device.
- Never use accessories which were not delivered with this device or which are not recommended by the manufacturer of this unit.
- There should never be liquid near any of the cables or the device itself.
- The device is not waterproof. When used outdoors the device must be protected from water, dampness, and dust.
- Never wash the device under running water or using any other liquid.
- Do not use the device for any purpose other than those intended in the user manual.
- Do not attempt to repair the device yourself.
- Do not modify the device. If there are issues please contact the manufacturer to fix any problem. Unauthorised modifications will void the warranty policy.
- The device is used to control the connected camera which is supported by this device.

7.2 TROUBLESHOOTING

In the event of any difficulties with the unit please review these troubleshooting instructions. If the issue is not resolved after following these instructions please contact support@motionlapse.com.au

7.2.1 COMMON ISSUES

7.2.1.1 FLASHING LIGHTS

- Flashing red 2 times = No internet connection. Please check the sim card to ensure the correct APN has been entered.



- Flashing red 3 times = Camera not connected. Please check the camera cable is connected to the unit correctly.
- Flashing red 4 times = No FTP server connection. Make sure the FTP credentials are entered and are entered correctly.
- Flashing blue every 15 seconds The unit is connected to Wifi and is using Wifi to transfer images

7.2.1.2 AUTOFOCUS ISSUES

1. If you are having trouble getting the camera to focus in AV mode please rotate the dial to A+ mode.
2. Set the slide to AF mode on the lens.
3. Take the photo and the lens will focus. Once you hear a beep the camera is focused. Rotate the dial back to AV mode and set the focus on the lens back to MF (manual focus). Note. Do not bump the focus ring on the camera as this may alter the focus of the camera.



8.0 CHANGE LOG

The ‘change log’ is a section providing detailed information on any updates to the user manual. If updates are made to the user manual an up-to-date version will be sent to users; checking the change log will help users effectively identify any changes made to the user manual.

Version:

- 1.0 : User manual created.
- 1.1: Amazon S3 Bucket transfer settings added.
- 1.2: Table of Contents and 5.5 Transfer settings image edited.
- 1.3: Wi Fi status light added