

# MOTION LAPSE ML20

User manual version: 1.3



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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: <a href="mailto:support@motionlapse.com.au">support@motionlapse.com.au</a>



## 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.

- o 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 ( $\sim$  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 anyplace.

#### 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 <u>http://192.168.3.1</u> 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.

inboard	Dashboard					
nedule settings	Camera info	۵	Storage info	8	Internet connection	(
mena settings	Status	Connected	Camera 5D card	Total 0 GB Free 0 GB	LAN	
age settings	Model	Canon EDS 250D	USD Flash drive:	Total: 14.83 GB Free: 14.83 GB	WFI	
sfer setting	Camera power:	•	Device internal storage:	Free: 21.77 GB	43 Modern	
r setting	Carmena battery:	100%				
urity settings	Last capture:	2023-01-05718:28:00+10:00				
tem settings	Power info	(5)-	Sensors stats	*	System info	
ut	Battery percentage:	100%	Temperature	35°C	Serial number:	1000000049204
	Bettery voltage:	12.2V	Humidity.	49,	Hardware version:	1
	Solar charging	•			Software version:	2
	Solar voltage	16.39V			System uptime:	up 3 hours, 4 min

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 <u>https://192.168.3.1</u> 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.*

Schedule settings
Schedule #1
Status
C bank
Days of the week Evices (E. Levice (E.
Date range
160/06/2021 C
Time range
0 60 0 m 0 60 9 m 0
Perstan Internal
UppAret # Weit Team
Schedule #2
Status
C basi
Days of the week © Lone © None © Teache © Teache © Teache © Teache
Date range
22206001 0 j 2206001 0
Time range
0.44.pm 0   04.00.pm 0
Capture Interval
8
Schedule #3
Quius
S Date
Days of the week © Lone © Tente © Lone © Tente © Tente © Lone
Date range
40/mm/yyyy C
Time range
12 00 am 0 11 11 am 0
Castras Internal
Screenshot

#### 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. MOTION LAPSE PTY LTD 12 Brisbane, QLD www.motionlapse.com.au



MotionLapse		Logout
h Dashboard	Camera settings	
<ul> <li>Schedule settings</li> <li>Camera settings</li> </ul>	Storage	
<ul> <li>Internet connection</li> <li>Storage settings</li> </ul>	Keep photos	
<ul> <li>Transfer setting</li> <li>Power setting</li> </ul>		Save
<ul> <li>Security settings</li> <li>System settings</li> </ul>		

#### **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.

MotionLapse	Internet settings
<ul> <li>Schedule settings</li> <li>Camera settings</li> </ul>	Inbuilt 3G/4G modem
Internet connection     Storage settings     Transfer setting	Status C Instead
<ul> <li>Trendre setting</li> <li>Power setting</li> <li>Security settings</li> <li>System settings</li> </ul>	Connection details tetra.gh PRI Userane Passeod
	WiFi connection Access point will be disabled Status
	SSI0 Passod
	· · · · · · · · · · · · · · · · · · ·

#### 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 <u>https://www.vysoo.com/apn.php/</u>
- 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 WiFi 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.

In Dashboard	Storage settings
<ul> <li>Schedule settings</li> <li>Camera settings</li> </ul>	General
Internet connection  Storage settings  Transfer setting	File format YYYYMMDD_JHimmss log
<ul> <li>Power setting</li> <li>Security settings</li> <li>System settings</li> </ul>	Arrange by day
	Local storage
	Status © Enabled
	Device
	Folder
	See
	×

#### **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.

Fransfer settings			
Motion Lapse Portal			8
Status			
Connection details			
	Register camera		
Dropbox			8
Dropbox Status			8
Dropbox Status Truted			8
Dropbox Status © trusted Connection details			8
Dropbox Status Trusted Connection details	Get code		8
Dropbox Status Trutted Connection details	Get coore		8
Dropbox Status Totaled Connection details	Set core		8

#### 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 (<u>https://motionlapse.com.au/online-portal/</u>) to be emailed a username and password for the MOTION LAPSE image portal.

In your web browser navigate to <u>https://customer-login.motionlapse.com.au/login</u> 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.	
O 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.

Settings Permissions	Branding Analytics	
Individual Scopes	Individual scopes include the ability to view	vand manage a user's files and folders. View Documentation
	Account Info Permissions that allow your app to view and m	sanage Dropbox account info
	account_info.write	View and edit basic information about your Dropbox account such as your profile photo
	account_info.read	View basic information about your Dropbox account such as your username, email, and country
	Files and folders Permissions that allow your app to view and m	nanage files and folders
	files.metadata.write	View and edit information about your Dropbox files and folders
	files.metadata.read	View information about your Dropbox files and folders
	☑ files.content.write	Edit content of your Dropbox files and folders
	□ files.content.read	View content of your Dropbox files and folders
	Collaboration Permissions that allow your app to view and m	nanage sharing and collaboration settings
	□ sharing,write	View and manage your Dropbox sharing settings and collaborators
	sharing.read	View your Dropbox sharing settings and collaborators
	□ file_requests.write	View and manage your Dropbox file requests
	file_requests.read	View your Dropbox file requests
	contacts.write	View and manage your manually added Dropbox contacts

- 5. Select the 'Settings' tab and next to the 'OAuth 2' setting on the bottom left please enter <u>https://remote-access.motionlapse.com.au/dropbox/auth</u> 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.



7. 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.

Settings	Permissions	Branding	Analytics		
Creating a l	ropbox app				
1 Configu	re app settings	o initial cottings			
2 Select a		e initial settings.			
Choose	the access scopes,	, or specific permi	ssions, that you	r app needs to interact with Dropbox. We recommend starting sm	all and adding more permissions later if
3 Add bra	nding				
Give yo	ir users important	information about	ut your Dropbox	app. Should comply with the Dropbox developer branding guide.	Get started
atus		Development			Apply for product
		bereispinent			Apply to produce
evelopment u	sers	Only you			Enable additional us
		,,,			
ermission typ	2	Scoped App (A	pp Folder) 🁩		
op folder nam	e	January 2023 t	est		Char
op key		3qmmko9ma2d	81y7		+
op secret		Show			
Auth 2		Redirect URIs			
		https://remot	e-access.motion	lapse.com.au/dropbox/auth Add	
Dashboard			Dro	pbox	
Schedule settin	15		Sta	tus	
Camera setting				Enabled	
Internet connec	tion		Cor	prection details	
Storage setting			Ap	) kev	•
Transfer setting					
Power setting			Ap	o secret	Get code
Security setting	3		Co	de	
System setting:					

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

	<b>1</b>
	and the second se
Before you connect this app	January 2023 test would like to:
Make sure that you know and trust this developer. Allowing apps from developers you don't know may put your data at risk.	- Edit content of your Dropbox files and folders, only within the Apps $_{\rm 3}$ January 2023 test folder
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.	View basic information about your Dropbox account such as your username, email, and country
Cancel Continue	Cancel Allow
Click <b>Cance</b> 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.	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.

		and the second se
Dashboard	Enabled	
苗 Schedule settings	Connection details	
Camera settings	vx1zyz8gtzlplc7	
Internet connection	america Daw7616	Cat and
Storage settings	C2vCyreuapw/oji	Get code
🔉 Transfer setting	ZJZOeQOLa_AAAAAAAAFYHXWXGu8yA_aliiz-eLJP_td	
9. Power setting		
-	January test 2023	

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.

FTP	
Status C Enabled	
Connection details	
Hostname	Port
Folder	
Username	
Password	

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



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

aws Services Q. Search		[Option+S]					😡 😓 🕐 Giotal 🔹 Mosios Lapse Portal 🔹
Identity and Access X Management (IAM)	IAM dashboard						¢
Q. Search (AM Dashboard	Add MFA for root user	2 Sactor authentication (MFA) for the root user to	improve security for this account.			C Add MFA	AWS Account Account ID 20 111825002327
▼ Access management User groups Users Roles	Root user has no active acc Using accesse keys attached to an IVI     Update your access permis We are replacing the following IVMI via portal/ModBly/count, are-portal/ModBly/	ess keys A user instead of the root user improves secur sions for AWS Billing, Cost Manager tions for Billing, Cost Managersert, and Acco wPaymentMethods, aws-portat/ModilyPayme	ly. ment, and Account consoles un consider with gravitat MM actions ave-portat.VewBilling, Methodos, ave-portat/Seek.logo, purchase-orders VervPurch	awa-portal.MedifyBiling, awa-portal.MewAccount, awa- aseOrtiens, and purchase-ordensiAodifyPurchaseOrdens.	50	View affected policies	Account Allas 1118/55002327 Cenate Sign-In URL: Kol MJ users In this account §3 https://1118/55002127 signin.asws.amazon.com/console
Policies Identity providers Account settings	ensure you don't tose access to AWS Impacted Include AWS Cost Explores	Billing, Cost Managament, and Account cons AWS Budgets, Billing console, and more. For	ole based features, update your existing VM policies to include more information, please visit <b>Meg [2</b> ]	e the new IAM actions before July 2023. Examples of feats	res	c	Quick Links (? My security condentials Munage your access keys, multi-factor authentication (MFA) and other condentials.
Access reports     Access analyzer     Archive rules     Analyzer	User groups 2	2	Roles 6	Policies	Identity provider	5	Tools C <sup>e</sup> Polcy simulator
Settings Credential report Organization activity Service control policies (SCPs)	What's new C* Updates for features in IAM • Advanced Notice: Amazon S3 will a • AWS IAM Identity Center now suppr	tomatically enable S3 Block Public Acc	ess and disable access control lists for all new bucket r AWS Command Line Interface (AWS CU) and SDKs.	<b>ts starting in April 2023.</b> 1 month age 1 month age		Wew al 🧭	In a simulator valuates the polarises that you choose and centerines the effective permission for each of the actions that you specify. Web clocking federation plagnound Authentically supervised and of the supported web clarently providers, see the requests and response, obtain a set of temporary sourchy endentias, and make cashs to the Amazon SAF varing the evelentiab.
Related conseles IAM Identity Center 🛛 🛚 New	AWS Lambda announces support fo     Amazon East/Cache simplifies pass	r Attribute-Based Access Control (ABA) word rotations with Secrets Manager, 2	5) in AWS GovCloud (US) Regions 1 month ago monthe ago & more				Additional Information (2) Best practices for Identify and Access Management MM documentation Videos MM measurement
							Related services (?           ANS Operations           Certain prese of manage all your AWS accounts.           WM Market/ Center

- 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.

aws	Services Q. Search	(Option+5)	😥 🗛 🕲 Global 💌 Motion Lapus Portal 💌
=	IAM > Users > Create user		e
	Step 1 Specify user details	Specify user details	
	Step 2 Set permissions	User details	
	Sop 3 Review and create	User name           Image: Second and canadam up to 64 dimensions. Void dimensions: Void dimensis: Void dimensis: Void dimensions: Void dimensis: Void dimensions	
			Cancel Next

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

aws	Services Q. Search	[Option+S]			Ð	🗘 🕐 Globel 🕶	Motion Lapse Portal
=	IAM > Users > Create user						
	Step 1 Specify user details	Set permissions	roups is a best-practice way to manape user's permissions by i	tob functions. Lasm more 12			
	Step 2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		U			
	set permissions	Permissions options					
	Sup 3 Review and create	Add user to group     Add user to an eliting group, or create a new group. We a     job function.	ecommend using groups to manage user permissions by	Copy permissions Copy al group memberships, attached managed policies, and inline policies from an existing user.	Attach policies directly     Attach ammaged policy directly to a user. As a best practice, we recor     Then, add the user to the appropriate group.	mmend attaching policies to a group	instead.
		User groups (2) Q. Search groups				C Create	3Lonb > ©
		Group name 🖸	▲ Users	v Attached policies 🖸	V Created		v
		toryss3access2023	1	AmazonS3FullAccess	2023-01-17 (2 days ago)		
		torystest	0	AmazonS3FullAccess	2023-01-17 (2 days ago)		
		Permissions boundary - options/ Set a permissions boundary to control the maximum permissions	ons for this user. Use this advanced feature used to delegate permission	n management to others. Lawr move 🗹			
						Cancel Previous	Next

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



aws	Services Q. Search	[Option+S]			<b>N</b> 4	0   4	Globel 🔻	Motion Lapse	Portal ¥
=	IAM > Users > Create user								0
	Step 1 Specify user details	Review and create Review your choices. After you create the user, you can view and download the autogene	ated password, if enabled.						
	Step 2 Set permissions	User details							
	Stop 3 Review and create	User name testmiformanual	Console password type None	Require password reset No					
		Permissions summary						(1)	
		Name 🛃	v Type	♥ Used as				~	
			No resources						
		Tags - optional Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resour	res. Choose any tags you want to associate with this user.						
		No tags associated with the resource.							
		Yeu can add up to 50 more tags.			Cancel	Previ	ous	eate user	

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.

aws Estruces Q. Scarch	[Option+5]		及 🗘 ⑦ Global ▼ Motion Lapse Portal ▼
Identity and Access ×	Ø User removed from group(s)		×
Q, Search (AM	UM > Users > testmiformanual testmlformanual		Delate
Access management	Summary		
User groups Users Roles Policies Identity providers	ARN  mmanusaiant: 111825002327.user/testmiformanual Citated January 20, 2025, 6644 (JJTC-10:00)	Console access Disabled Las consoles sign-an	Access key 1 Nei embed Access key 2 Nei embed
Account settings	Permissions Groups Tags Security credentials Access Advisor		
Archive rules Analyzers Settings Credential report	Permissions policies (0) Permissions are defined by policies attached to the user directly or through groups. Q. <i>Find</i> policies		C Remove Add permissions A Add permissions Add Inline policy
Organization activity	Policy name 🖸	▲   Туре	▼   Attached via [2]
Jervie control porces (JCPS)		No policies	
Antonic Constan	Permissions boundary (not set) the semision boundary (not set) the semision boundary to entropy the making permission for this set, the this shared feature and to defigure Generative performance and cold head on the second Wourd preventes a new performation between Wourd preventes a new performance and the performance and the second Durary poor free/flack and head as improves the policy generation appendence. Durary poor free/flack and head as a figurous the policy generation appendence. Durary poor free/flack and head as a figurous the policy generation appendence. Durary poor free/flack and head as a figurous the policy generation appendence.	spension newspense to other. Lean new ()	men (?

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.

Services Q Search	(Option+S)			C	4	Ø Globel	Motion Lapse Portal
Access key created This is the only time that the secret ac							٢
IAM > Users > testmiformanual	> Create access key						
kep 1 kccess key best practices &	Retrieve access keys						
p 2 - optionel	Access key If you lose or forget your secret access key, you cannot retrieve it. Instead, crea	ate a new access key and make the old key inactive.					
	Access key	Secret access key					
p 3 trieve access keys	AKIARUCKKD5LY2M2SZWH	XgT+5NsZ90tF3G2Hpuk02IITyy4804wim/2nV19f Hide					
	Access key best practices						
	Never store your access key in plain text, in a code repository, or     Directly an delete access hey when an improvement of	r in code.					
	Enable least-privilege permissions.						
	Rotate access keys regularly.     For more details about managing access keys, see the Best practice	s for managing AWS access keys.					
			Download .csv file Done				



MOTION LAPSE MU		
di Deshboard	Transfer settings	
Schedule settings	Motion Lapse Portal	8
Camera settings	Status	
Storage settings	C Erabled	
ransfer setting	Connection details	
(5) Powersetting	2000 TEST	
O Security settings	1e468d7c45797c617346c31332cbfdab Register camera	
System settings		
	AWS \$3	8
	Status  Enabled  Enab	
	Connection details	
	Access key ID	
	Secret access key	
	Busiet	
	Region	
	Felder	

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.

	X Amazon 53 > Buckets	
kets ess Points iert Lambda árross Points	Account snapshot Storage free provide validity into snarps usage and activity trends. Laws more (2)	View Storage Lens dashboard
Li-Region Access Points ch Operations Access Analyzer for \$3	Buckets (1) Mo. Buckets are constructed to data stands in bits Latern more (2) Or not buckets the senser	Image: Comparison of Compar
k Public Access settings for	Nama A AME Danion 22 Array	V Crastion data
account	mittestbucket2023     Adia Pacific (Sydney) ap-southeast-2     Objects can	be public January 17, 2023, 13:54:30 (UTC+10:00)
8. N	ame your bucket.	
aws	Services Q Search [Option+S]	
=	Amazon S3 > Buckets > Create bucket	
	Create bucket un	
	Buckets are containers for data stored in S3. Learn more	
	General configuration	
	Bucket name	
	myawsbucket	
	Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming 🔀	
	Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming 🗹	
	Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming AWS Region Asia Pacific (Sydney) ap-southeast-2	
	Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming AWS Region Asia Pacific (Sydney) ap-southeast-2 Copy settings from existing bucket - optional Only the bucket settings in the following configuration are copied. The provided settings is the following configuration are copied.	
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	Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming AWS Region Asia Pacific (Sydney) ap-southeast-2 Copy settings from existing bucket - optional Only the bucket settings in the following configuration are copied. Choose bucket Object Ownership Info Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object determines who can specify access to objects.	covnership
	Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming  AWS Region Asia Pacific (Sydney) ap-southeast-2  Copy settings from existing bucket - optional Only the bucket settings in the following configuration are copied. Choose bucket  Object Ownership Info Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object determines who can specify access to objects.  O ALS disabled (recommended) All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.  Choose bucket  O ALS enabled Objects in this bucket and he owned by other / access to this bucket and he objects is specified using O ACLS enabled Objects in this bucket and he objects is specified using	ownership WWS can be
	Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming AWS Region Asia Pacific (Sydney) ap-southeast-2 Copy settings from existing bucket - optional Only the bucket settings in the following configuration are copied. Choose bucket Object Ownership Info Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object determines who can specify access to objects. O ACLs disabled (recommended) All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies. Object Ownership	ownership WWS can be

a. Click block public access if needed.



ensure and its applicat custom	ccess is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to hat public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket tocess points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your ions will work correctly without public access. If you require some level of public access to this bucket or objects within, you can ze the individual settings below to suit your specific storage use cases. Learn more
✓ Blo	ick all public access ning 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 <i>new</i> 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 <i>any</i> 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 <i>new</i> 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 53 resources.
	Block public and cross-account access to buckets and objects through any public bucket or access point policies 35 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.
Buck ersion	et Versioning Ing is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore
Bucket	Versioning able
Bucket	Versioning able able
Bucket Dis Dis En Tags You can	<pre>ititation failures. Learn more  Versioning able (0) - optional use bucket tags to track storage costs and organize buckets. Learn more  </pre>

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 C Disable Enable								
► Advanced settings								
<ol> <li>After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.</li> </ol>								
Cancel Create bucket								

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



MOTION LAPSE METAN		
di Destiloard	Transfer settings	
🗎 Schedule settings	Motion Lapse Portal	8
Camera settings  Internet connection	Status  Index  Index I	
Storage settings     Transfer setting     Ey: Power setting	Connection details z000 TEST	
<ul> <li>Security settings</li> <li>System settings</li> </ul>	1e46847e45797eb17346cst832btdab Register camera	
	AWS \$3	8
	Status C Ended	
	Connection details Process key 0	
	Secret access key	
	Busiet	
	Region	
	Folder	

#### 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.

ransfer mode
Transfer after 1 v

#### 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.

broker Power settings broker Solar charging broker	
Instruction         Solar charging           Instruction         Status           Instruction         Status           Instruction         Status           Instruction         Status           Instruction         Status           Instruction         Status           Instruction         Camera power	
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Device Power saving	
Status Continer	
Camera Power saving	
Status Content	
	Save

*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.

MotionLapse	les
/ Deshboard	System settings
) Scheckle settings 2) Centers settings	General
i Isternot connection Starage settings > Transfer setting Unaversetting	Time Zone AuthalsQueenland v
) Security settings	Daily Status Reports
	Status C Feature
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	Wi-FI Access Point
	Status C Galater
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	System software update
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# 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 anyplace. 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

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

Image Portal

If you are having any troubles applying for a subscription please email <a href="mailto:support@motionlapse.com.au">support@motionlapse.com.au</a>

#### 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

<u>https://remote-access.motionlapse.com.au/auth/login</u> 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.

ult Dastboard	Dashboa	ard													
Device list	di Status			60- Battery voltage			📩 Solar charge				O Humidity	🗢 Modern signal			
Security settings		1	*	1		*		1	•		1	*	1		*
BB Bulk actions		0	*	0		*		0	•						×
System settings		0	*	0		•					0	•	C		•
[→ Logout	Status	S/N		Customer	Description	<b>69</b> -8	Battery voltage	📩 Solar charge	ОH	umidity	😤 Modern signal	۵	Next photo due		
	•	MLEV2NIWWM4/4701	25	iOD Camera test		100	9% 12.18V 🔵	16.24V 🔵	42	% 🔴	100% 🔵		00:00:00	~	

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



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 <a href="mailto:support@motionlapse.com.au">support@motionlapse.com.au</a>

#### 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.



- $\circ$  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 conected 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