

# Morbella

## TX2 MINI



## USER MANUAL

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10/2018. R1.1



## Safety information

To prevent injury to yourself and others or damage to your device, read the safety information about your device before using the device.



### Warning

**Failure to comply with safety warnings and regulations can cause serious injury or death.**

**Do not use damaged power cords or plugs, or loose electrical sockets**

Unsecured connections can cause electric shock or fire.

**Do not touch the car charger with wet hands or disconnect the charger by pulling the cord**

Doing so may result in electrocution.

**Do not bend or damage the car charger**

Doing so may cause electric shock or fire.

**Do not use your device while it is charging or touch your device with wet hands**

Doing so may cause electric shock.

**Do not short-circuit the charger or the device**

Doing so may cause electric shock or fire, or the battery may malfunction or explode.



## **Use manufacturer-approved batteries, chargers, accessories, and supplies**

- Using generic batteries or chargers may shorten the life of your device or cause the device to malfunction. They may also cause a fire or cause the battery to explode.
- Use only Maka GPS Technologies Group-approved battery and charger specifically designed for your device. Incompatible battery and charger can cause serious injuries or damage to your device.
- Maka GPS Technologies Group cannot be responsible for the user's safety when using accessories or supplies that are not approved by Maka GPS Technologies Group.

## **Do not drop or cause an impact to the charger or the device.**

## **Handle and dispose of the device and charger with care**

- Never dispose of the battery or device in a fire. Never place the battery or device on or in heating devices, such as microwave ovens, stoves, or radiators. The device may explode when overheated. Follow all local regulations when disposing of used battery or device.
- Never crush or puncture the device.
- Avoid exposing the device to high external pressure, which can lead to an internal short circuit and overheating.

## **Protect the device, battery and charger from damage**

- Avoid exposing your device and battery to very cold or very hot temperatures.

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- Extreme temperatures can damage the device and reduce the charging capacity and life of your device and battery.
- Prevent the battery from coming into contact with metal objects, as this can create a connection between the + and – terminals of your battery and lead to temporary or permanent battery damage.
- Never use a damaged charger or battery.

## **Do not bite or suck the device or the battery**

- Doing so may damage the device or result in an explosion or fire. • Children or animals can choke on small parts.
- If children use the device, make sure that they use the device properly.

## **Do not handle a damaged or leaking Lithium Ion (Li-Ion) battery**

For safe disposal of your Li-Ion battery, contact your nearest authorised service centre



## Caution

**Failure to comply with safety cautions and regulations can cause injury or property damage**

**Do not use your device near other electronic devices**

Most electronic devices use radio frequency signals. Your device may interfere with other electronic devices.

**Do not expose the device to heavy smoke or fumes**

Doing so may damage the outside of the device or cause it to malfunction.

**Do not use your device near devices or apparatuses that emit radio frequencies, such as sound systems or radio towers**

Radio frequencies may cause your device to malfunction.

**If you notice strange smells or sounds coming from your device or the battery, or if you see smoke or liquids leaking from the device or battery, stop using the device immediately and take it to a Maka Service Centre**

Failure to do so may result in fire or explosion.

**For your own safety, do not operate the controls of the product while driving.**

Two window mounts are needed when using the recorder in a car. Make sure that you place the recorder in an appropriate place, so as not to obstruct the driver's view.

**Make sure that no object is blocking the camera lens and no reflective material appears near the lens.**

Please keep the lens clean. If the car's windscreen is tinted with a dark solar film coating, it may affect the recording quality.

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**Do not store your device in very hot or very cold areas. It is recommended to use your device at temperatures from 0 °C to 60 °C and humidity from 10% to 80%**

Doing so may cause the screen to malfunction, result in damage to the device, or cause the battery to explode.

**Do not use your device or applications for a while if the device is overheated**

Prolonged exposure of your skin to an overheated device may cause low temperature burn symptoms, such as red spots and pigmentation.

**Install mobile devices and equipment with caution**

- Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted.
- Avoid placing your device and accessories near or in an airbag deployment area. Improperly installed wired equipment can cause serious injury when airbags inflate rapidly.

**Do not drop your device or cause impacts to your device**

- Your device may be damaged or may malfunction.
- If bent or deformed, your device may be damaged or parts may malfunction.

**Ensure maximum battery and charger life**

- Avoid charging your device for more than a week, as overcharging may shorten battery life.
- Over time, unused device will discharge and must be recharged before use.
- Disconnect the charger from power sources when not in use.

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- Leaving batteries unused over time may reduce their lifespan and performance. It may also cause the batteries to malfunction or explode, or cause a fire.
- Your device may wear out over time. Some parts and repairs are covered by the warranty within the validity period, but damages or deterioration caused by using unapproved accessories are not.

## **Do not disassemble, modify, or repair your device**

- Any changes or modifications to your device can void your manufacturer's warranty. If your device needs servicing, take your device to a Maka Service Centre.
- Do not disassemble or puncture the battery, as this can cause explosion or fire.
- Turn off the device before removing the battery. If you remove the battery with the device turned on, it may cause the device to malfunction.

## **When cleaning your device, mind the following**

- Wipe your device or charger with a towel or an eraser.
- Do not use chemicals or detergents. Doing so may discolour or corrode the outside the device or may result in electric shock or fire.

## **Do not distribute copyright-protected material**

Do not distribute copyright-protected material without the permission of the content owners. Doing this may violate copyright laws. The manufacturer is not liable for any legal issues caused by the user's illegal use of copyrighted material.

## Correct disposal of this product



(Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed off with other household waste.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.





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## About this manual

This device provides high quality digital recording device using Maka's high standards and technological expertise. This user manual is specially designed to detail the device's functions and features.

- Please read this manual before using the device to ensure safe and proper use. Descriptions are based on the device's default settings.
- Images and screenshots may differ in appearance from the actual product.
- Content may differ from the final product, or from software provided by service providers and is subject to change without prior notice.
- For the latest version of the manual, refer to the Maka website at [www.makagps.com](http://www.makagps.com).
- Available features and additional services may vary by device, software.
- Applications and their functions may vary by country, region, or hardware specifications.
- Maka is not liable for performance issues caused by applications from any provider other than Maka.
- Maka is not liable for performance issues or incompatibilities caused by not installing the device as stated in this manual. Attempting to customise the installation may cause the device or applications to work improperly. This may result in device malfunctions and data corruption or loss. These actions are violations of your Maka agreement and will void your warranty.
- Default applications that come with the device are subject to updates and may no longer be supported without prior notice. If you have questions about an application provided with the device, contact Maka Service Centre.



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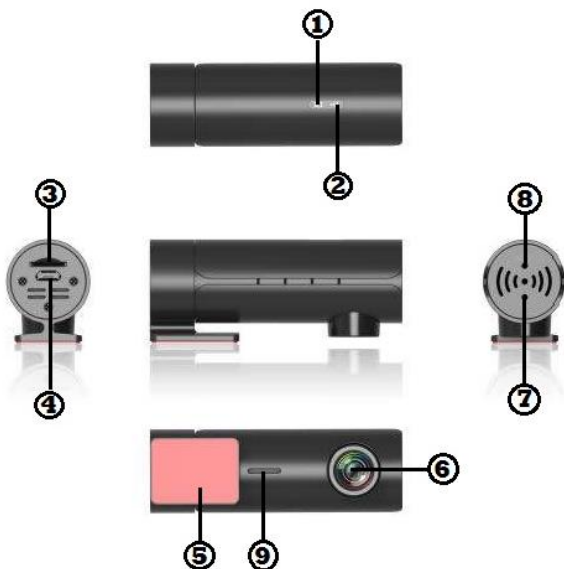


## Product Specifications

Sensor	3MP Sony IMX323 Sensors
Lens	Fixed focus, full glass elements
Aperture	, f=1.8
CPU	Novatek 96658
External Memory	Class 10 or above TF card( SDHC specification up to 64G)
Gravity sensor	Sensitivity low/medium/high/OFF
Motion detect	ON/OFF
Shutter	Electronic shutter
White balance	Auto
Exposure	Auto ISO
Apps Support	Android and IOS
Battery (optional)	2x Super Capacitor
Video format	MOV
Video resolution	1728x1296P30, 1920x1080P30, 1280x720P30, 848x480P30, 640x480P30
Loop recording	OFF/1min/2min/3 min/5 min/10 min
Microphone mute	ON/OFF via Apps

## Device Layout / Button Function

- |                            |                 |
|----------------------------|-----------------|
| 1. Recording LED indicator | 6. Lens         |
| 2. Wifi LED indicator      | 7. Mic          |
| 3. Micro Sd Card Slot      | 8. Reset Button |
| 4. Power Port (Mini type)  | 9. Speaker      |
| 5. 3M tape holder          |                 |



## Package contents

Check the product box for the following standard items:

- TX2mini Front Camera
- Operating Manual
- Mounting holder for camera (3M Stick Type attach with device)
- Car Charger (5V output type)
- Remote Button (Refer to the pic below)



The items supplied with the device and any available accessories may vary depending on the region. The supplied items are designed only for this device and may not be compatible with other devices.

Appearances and specifications are subject to change without prior notice. Malfunctions caused by using unapproved accessories are not covered by the warranty service. Availability of all accessories is subject to change depending entirely on manufacturing companies. For more information about available accessories, refer to the Maka GPS Technologies Group website.



## Installation

### 1 Fixing the camera to the window mount

It is compulsory for window mount to be fixed up before using the device in a car. Make sure that you place the recorder in an appropriate place, so as not to obstruct the driver's view.

### 2 Connecting charger to the cigarette lighter

Connect only the manufacturer-approved charger supplied with your device. Use only Maka GPS Technologies Group-approved charger specifically designed for your device. Incompatible charger can cause serious injuries or damage to your device.

### 3 Inserting a memory card

You have to insert a memory card before you can start recording. The recorder supports Micro SD cards with up to 64GB capacity. You are advised to use a Class 10 memory card with at least 8GB capacity. DO NOT insert or remove the memory card when operating the device.

## Inserting a memory card

Your device accepts memory cards with maximum capacities of 64 GB. Depending on the memory card manufacturer and type, some memory cards may not be compatible with your device.

Some memory cards may not be fully compatible with the device. Using an incompatible card may damage the device or the memory card, or corrupt the data stored in it.

Use caution to insert the memory card right-side up as shown in the image below.

- Insert a memory card with the gold-coloured contacts facing downwards.
- Push the memory card into the slot until it locks in place.



**It is recommended to reformat a memory card every time images are transferred from it to a computer, or at least once every 2weeks..**

Reformatting a memory card keeps data and the structure of files stored on it clean, helping to prevent error messages and missing images. Reformatting also restores the memory card, which can prevent it from becoming corrupted.

## Removing the memory card

Before removing the memory card, first unmounts it for safe removal.

On the device

- 1 Unplug the cable from the device when vehicle power is off to power down.
- 2 Pull out the memory card.

Do not remove the memory card while the device is transferring or accessing information. Doing so can cause data to be lost or corrupted or damage to the memory card or device. Maka GPS Technologies Group is not responsible for losses that result from the misuse of damaged memory cards, including the loss of data.

## Formatting the memory card

You may choose to format your memory card on a computer or on the device apps. Refer to Setting via Apps at page 30

Before formatting the memory card, remember to make backup copies of all important data stored on the device. The manufacturer's warranty does not cover loss of data resulting from user actions.

## Hardware Requirement

The Apps connects to TX2mini via Android and iOS platform

RAM : 1GB

(higher hardware configuration will allow apps to get a smoother video display)

## Apps Installation

For apps installation, the apps in the search refer to the icon below:-

Apps Icon -  (TimaCam)

1. Andriod system – Please download “TimaCam” at **Play Store**



Play Store , search the apps and install.

2. iOS system – Please download “TimaCam” from **Apps Store**



App Store , search the apps and install.

## Setting Up Wifi Connection

The Apps connects to TX2mini via Android and iOS platform. Connection require device to be turn on in order to allow wifi connection setting up.

- i. Andriod / IOS system – Open wifi connection on the mobile phone, Select Wifi ID of the TX2mini Recorder (Default name : **TX2mini xxxxxxxxxxxx**)\*refer to MAC (media access control) of the device connecting. Initial default password : **12345678**
- ii. Open the installed Apps downloaded, click open to access apps. Refer to **Figure.1** below, the apps will auto detect the wifi which you have connected to the device and connect automatically. It will go straight into the live view after auto connect (**as in figure 2**)

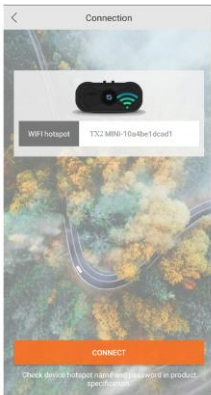


Figure 1 (Apps Startup login)

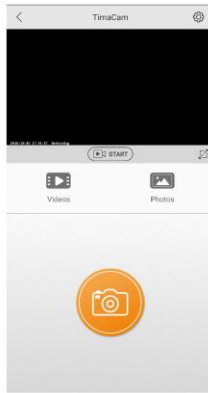
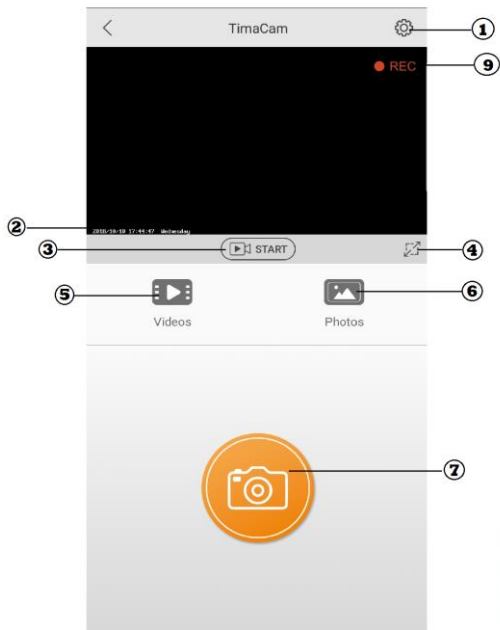


Figure 2 (Apps live view)

### Apps Button and Function


When Wifi establish, open the apps and the mobile phone will display the real-time view of the TX2mini. User will be able to operate the device and change the setting accordingly. Refer to **Figure** below of the screen.



## Video / Photo / Remote Button


### Video



When Wifi establish, open the apps and the mobile phone will display the real-time view of the TX2mini. Click on the icon  on the live screen to start or stop recording. A voice prompt will be heard when Stop/Rec.

### Photo



When Wifi establish, open the apps and the mobile phone will display the real-time view of the TX2mini. Click on the icon  on the live screen to take a photo shoot. You will hear a clicking sound on the device show photo is taken.




### Remote Button

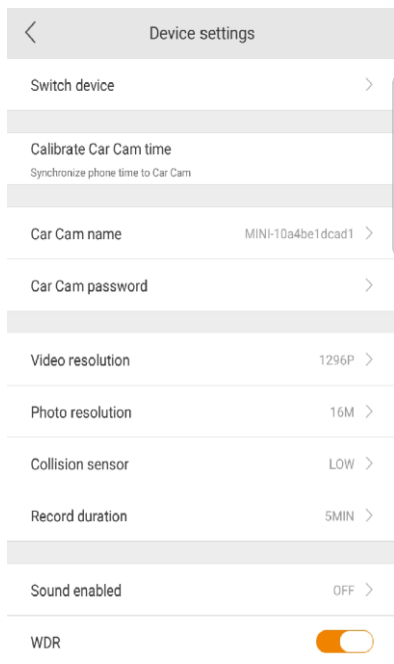
This remote button allow user to take a photo or manually lock existing video clip recording file without going into the apps to take a photo.

1. To take a **Photo**, press once on the button to capture a photo without connecting to apps. A click sound will be prompt when photo is being taken
2. Emergency recording (G-sensor) can be manually trigger using the remote button without any accident happen. Press and hold on the button for **4 second** to create a lock file on the existing 1 recording file

Note : if the Remote button does not work, check the indicator light on the remote button if it is on. Then long press 15second to pair the remote with the device and a sound will be heard when the pairing is successful

## Apps Setting

When Wifi establish, open the apps and the mobile phone will display the real-time view of the TX2mini. Click on the icon  on the live screen to enter the setting of the device. Refer to **Figure** below of the screen when in the setting.





### 1.Swtich Device

This function enables you to log out and connect to another device if the SSID is save in the mobile.

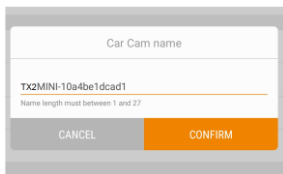
### 2.Calibration Car Cam Time

This function enables you to synchronize date and time with your mobile phone accordingly when trigger this function. First usage of the device is advisable to do this synchronize.

### 3.Car Cam Name

This function enables you to change the SSID of the device according to your preference name.

1. When in the setting, press on the arrow sign to go into the function.
2. You will see the screen as shown below:

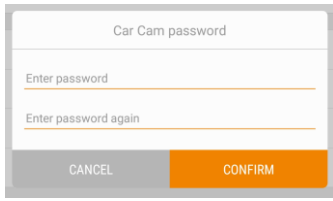


3. Change the name and press confirm to activate changes. Message will prompt to reconnect the wifi to complete the change.
4. Reconnect the wifi again using the changed name and enter password connect.

### 4. Car Cam Password

This function enables you to change the password of the device according to your preference. It is always advisable to change the password which you familiar and easy to remember by yourself.

1. When in the setting, press on the arrow sign to go into the function.
2. You will see the screen as shown below:



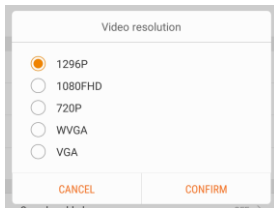
3. Key in 8 digit or alpha numeric. Make sure both line of password is enter the same correctly.
4. Press confirm to activate changes. Message will prompt to reconnect the wifi to complete the change.
5. Reconnect the wifi again connecting using the new password to connect. Once connected the changes made complete.

### 5. Video Resolution

This function enable to set the quality of the video recording. Default resolution will be set as Full HD resolution.

1. When in the setting, press on the arrow sign to go into the function Video Resolution.

2. You will see the screen as shown below:

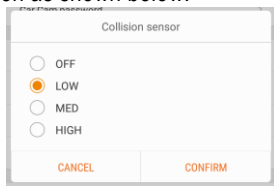


3. Select the resolution prefer accordingly (default is set as 1080FHD).
4. Press confirm to activate changes and exit this selection.
5. Go back to the live view and press record to start recording.
6. Make sure the recording icon on the top right hand is blinking before exit the apps.

## 6.G-Sensor

This function enable to you set the G-sensor 3axisyou're your preference mode of (off/low/Med/High). Default of low is set for the best mode.

1. When in the setting, press on the arrow sign to go into the function G-Sensor
2. You will see the screen as shown below:

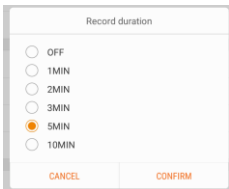


3. Select the G-sensor prefer accordingly (default is set as Low)
4. Press confirm to activate changes and exit this selection.
5. Go back to the live view and press record to start recording.
6. Make sure the recording icon on the top right hand is blinking before exit the apps.

## 7.Record Duration

This function enable to you set the Time interval (loop recording) of the video clip recording per file. Selection of (off/min/2min/3min/5min/10min) as per to user preference. Default of 3min is set for common and best recording time.



1. When in the setting, press on the arrow sign to go into the function Record Duration
2. You will see the screen as shown below:

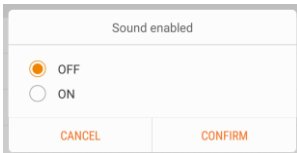


3. Select the duration prefer accordingly (default is set as 3min). If duration is set to Off, overwriting of the video will not happen when memory used up.
4. Press confirm to activate changes and exit this selection.
5. Go back to the live view and press record to start recording.
6. Make sure the recording icon on the top right hand is blinking before exit the apps.

## **8.Sound Enable (Android), Record (IOS)**

This function enables you to have a control to mute or unmute from the video recording thru the apps control.



1. When in the setting, press on the arrow sign to go into the function Record Duration (Android Mobile). For IOS press once on the icon  to on or  to off.
2. You will see the screen as shown below for Android:



3. Select on/off accordingly (default is set as On).
4. Press confirm to activate changes and exit this selection.
5. Go back to the live view and press record to start recording.
6. Make sure the recording icon on the top right hand is blinking before exit the apps.



## **9.WDR (Wide Dynamic Range)**

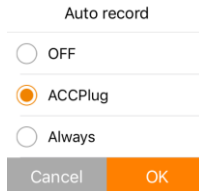
This function enables you to have a better recording quality when it comes to over brightness or lowly dim lighting which it will provide you a balance lighting exposure to have a clearer recording view. It is advisable to turn the function on during the night time for better video quality.

1. When in the setting, go to the selection icon on the function WDR
2. Press once on the icon  to on or  to off.

## 10.Auto Record

This function enable to you change the camera recording mode (Auto-recording on/off) when booting up the device for Android Mobile. IOS will have 3 selection (Default for both is set as On)



1. When in the setting, go to the selection icon on the function Auto Record.
2. Press once on the icon  to on or  to off (Android Mobile)
3. For IOS, press on the arrow to enter for selection as below



4. Select the prefer accordingly (default is set as Always). If duration is set to Off, overwriting of the video will not happen when memory used up.
5. Press confirm to activate changes and exit this selection.
6. Go back to the live view and press record to start recording.
7. Make sure the recording icon on the top right hand is blinking before exit the apps.

## 11.Motion Detect



This function enables you to use your device as a remote surveillance camera with motion detection functionality. It uses the built-in camera to detect movements in the surrounding area using an advanced motion detection algorithm. Camera will auto record If it detects any movement

1. When in the setting, go to the selection icon on the function Motion Detect.
2. Press once on the icon  to on or  to off
3. Go back to the live view and press record to start recording.
4. Make sure the recording icon on the top right hand is blinking before exit the apps.

Note : this function advisable not to turn on if you not recordingly in 24hrs operation.

## 12.Time Watermark

This function enables you to stamp the date/time on the video footage once the function is trigger. It is always advisable to turn the watermark on in order to stamp the information on the clip. (Default in On mode)

1. When in the setting, go to the selection icon on the function Time Watermark.
2. Press once on the icon  to on or  to off
3. Go back to the live view and press record to start recording.
4. Make sure the recording icon on the top right hand is blinking before exit the apps.

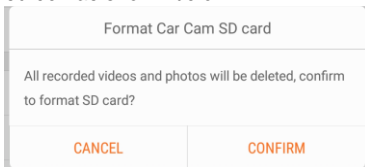
## 13.Format Card

This function enable you to format the card without formatting thru the PC. It is advisable to format the card once every 2 week to keep the card clean and not getting corrupt easily.

1. When in the setting, press on the arrow sign to go into the function Format Card

Operation of your TX2mini FHD Digital Roadcorder™

2. You will see the screen as shown below:

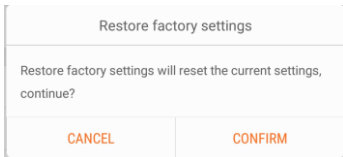


3. Press confirm to format the card and exit this selection.
4. Go back to the live view and press record to start recording.
5. Make sure the recording icon on the top right hand is blinking before exit the apps.

## 14.Restore Factory Setting

This function enable user to reset the device to the factory mode setting (Default setting)

1. When in the setting, press on the arrow sign to go into the function Restore Factory Setting
2. You will see the screen as shown below:

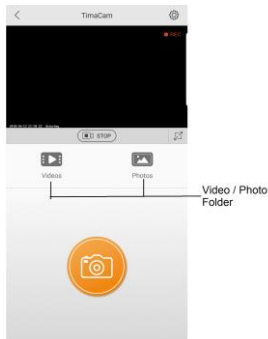


3. Press confirm to restore the setting back to origin and exit this selection.
4. Redo all setting needed or go back to the live view and press record to start recording with the origin setting.

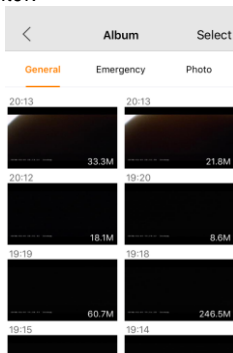


### 15.Video / Photo Folder

This folder will show all the video/photo taken. Refer to the figure shown on the folder.



Click on either folder to enter.

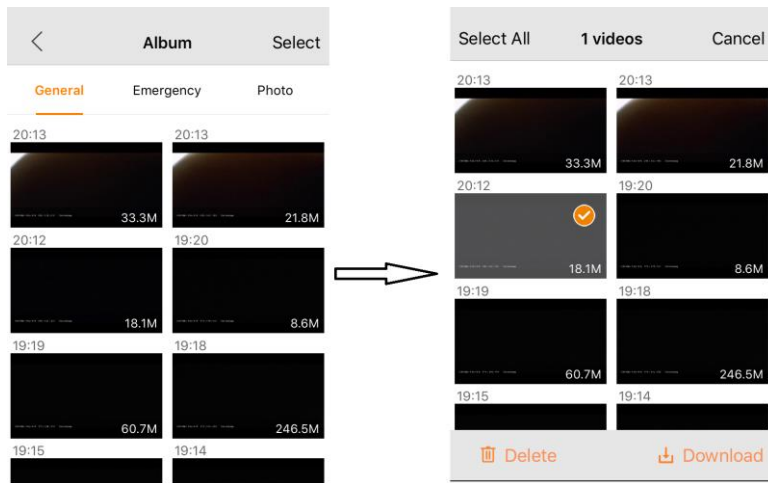


Select to view the file list, click on the General (Video) / Emergency (G-sensor File) / Photo to see the list recorded or photo taken.

## 16.Playback / Download / Delete

Refer to step 15 (Video/Photo folder) to enter and view.

1. To play back, tap on any file to playback.
2. To Download file, press Select on the list page and all file will be allow for you to select which one to download.
3. Check on the file to the selected file and hit download. If file not wanted then press delete to delete the file individually



Question	Reason	Solution
The captured image is not stored	<ol style="list-style-type: none"> <li>1 MicroSD card might be full or malfunction.</li> <li>2 Image is not saved before the power outage.</li> </ol>	<p>Reformat the card or replace a new MicroSD</p> <p>Make sure to stop recording before shutting down.</p>
Device cannot be turn on	Device might be low in battery.	Charge the Battery.
Screen Auto power-off	<ol style="list-style-type: none"> <li>1 Screen Saver function is enabled.</li> <li>2 Low Battery.</li> </ol>	<ol style="list-style-type: none"> <li>1 Press on UP button disable the screen saver mode.</li> <li>2 Charge the battery</li> </ol>
Unable to record videos	<ol style="list-style-type: none"> <li>1 Memory card might be full.</li> <li>2 If loop recording has been enabled, memory card might be corrupted.</li> </ol>	<ol style="list-style-type: none"> <li>1 Check your memory card's space. Delete files if required.</li> <li>2 Reformat your Memory card , if issue still persists, replace a new memory Card</li> </ol>
Auto stop recording in video mode	Use a compatible SDHC microSD card for HD video recording.	Get a microSD card that has minimum 8GB Class 10 speed.
Encounter "file error" when trying to playback pictures or videos	MicroSD card might be corrupted. There bad sectors in the card.	Reformat the memory card.
Hazy Images	Lens might be dirty.	Check if there are fingerprints or dust on the lens. Clean it with a micro fabric cloth if necessary.
There are horizontal stripes interference on the image	This could be due to wrong light frequency setting	Please set according to the local power supply respectively;50Hz or 60Hz. For SG/MY:50hz