User Manual

DV Series

About the Manual

The information is for reference only. If there are any changes, we will not notify otherwise. We will do our best to ensure the accuracy and completeness of this manual. We will not be responsible for any errors or omissions. The manufacturer reserves the right to change the technical specifications without prior notice.

About the SD(memory) card

- SD card is consumable. Please format it regularly and test it for normal operation.
- To ensure normal operation of the SD card, it’s recommended to format it every two weeks. And remember to save the required file before formatting to avoid it disappeared.
- It’s recommended that Micro SD use a Class of 10 or above. The SD card capacity depends on the model. It can support 32 to 128GB but there is no guarantee that all SD/SDHC cards are compatible with this device.
- Do not remove the SD card when the device is turned on and be sure to turn off the device before removing it to avoid damaging the video files.

⚠

Note: The DVR is a real-time writing device. The SD card is recommended to store consumables after 8 months of use, depending on the situation.

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1.Product Design Specification

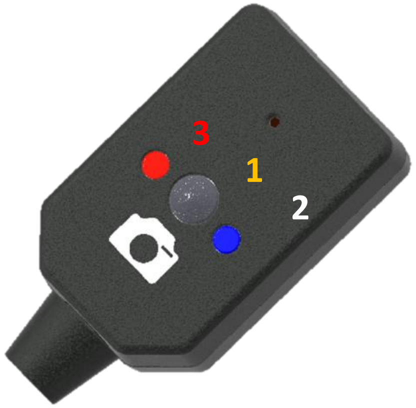
DVR	
Item	Specification
Resolution	Full HD: Video Record 1920x1080P
BMP(Image File Format)	(Transport Stream) (MPEG2-TS)
Video Source	LVDS CMOS of front and rear cameras
Audio	A Built-in Microphone Supports Recording
Wi-Fi	IEEE 802.11n 2.4GHz, WPA2
Memory Capacity	Micro SD card, 32GB (inclusive or above) is recommended, with Class 10 or above. Note: Support up to 128G, please format it to FAT32 on the computer so it can be used normally.
Sensor	Triple-axis Acceleration G-sensor
Recording Method	Loop recording: When the memory capacity is full, the oldest file will be overwritten automatically to maintain the continuous recording of the camera.
Power Supply Connecting	Input 12V DC power supply / 1A or less
Dimensions (Length x Width x Height)	Front Camera：24.3mm*68.2mm*50.1mm Rear Camera：56.2mm*30mm*36.5mm Main Box：93mm*71.8mm*23.3mm
Weight	690g
Operating Temperature	-20°C~70°C
Storage Temperature	-40°C~85°C

Front Camera	
Sensor	Sony STARVIS sensor
Camera	Optical Glass Camera　HFOV (degrees)：120°　F.no：2.0
Resolution	1920x1080P
Rear Camera	
Sensor	Sony Exmor sensor
Camera	Optical Glass Camera　HFOV (degrees)：120°　F.no：2.1
Resolution	1920x1080P
App	
Operation System Support	iOS：7+　Android：V5.0+

Note: LVDS is a small amplitude differential signal technology. The transmission rate can reach hundreds of megabytes or even higher. Also, it has lower power consumption with better noise performance and more reliable stability.

2.Product Function Description

2-1.Function Button



1. Camera Button

2. Power Indicator

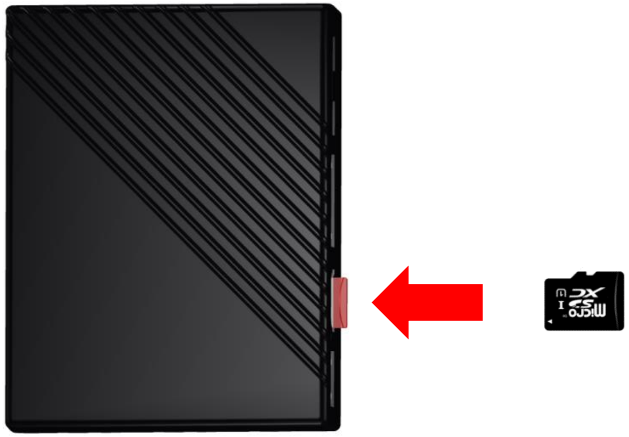
3. Video Recording Indicator

Camera button: click to take a photo, long press for more than 3 seconds to lock the video.

2-2.LED Button Indication Description

1.Power light	Blue light on
2.Video recording start	Blue & Red lights on
3.Video recording stop	Blue light on, Red light off
4.Lock file	1.Manually lock file: Long press for more than 3 seconds,the Red light flashes 2. G value trigger: The Red light flashes
5.Take pictures	Click to flashes the Red light once
6.Time Correction	Blue light flashes, Red light on
7.Machine Abnormality (SD card/camera/body)	Red and Blue lights flash alternately

2-3.Micro SD Card Embedded Position Indication



2-4.Micro SD Card Instructions

- To avoid poor recording performance and quality, the SD card is only suitable for Class 10 and it is recommended to choose a major brand.
- Insert the Micro SD card into the card slot and push it to the end until hearing a "click" to indicate that the Micro SD card has been fixed in the card slot.
- Do not remove the Micro SD card arbitrarily during video recording to avoid damaging the files.
- Please make sure that the video recorder is maintaining off during removing or installing the Micro SD card, otherwise, the Micro SD card may be damaged.
- If needed to remove the Micro SD card, push it according to the insertion direction until hearing a "click", which means the front part of the Micro SD card has ejected. Then you can remove the Micro SD card correctly.
- Please execute [Format Micro SD Card] on your APP monthly to ensure the operation of the Micro SD card maintaining well.

- Since the camera resolution is 1080P, the recording file size is an average of 230MB every 3 minutes (depending on the shooting content). A 32GB SD card can record video for about 4.9 hours (2.4 hours for the front and rear dual cameras). If you need a longer recording time, please replace a large-capacity Micro SD card.
- If you replace the Micro SD card, be sure to format it (FAT32 format) with a computer or a recorder with a built-in function to ensure the Micro SD card store normally.

2-5.Product Accessories

1. Front Camera*1

2. Rear Camera*1

3. ECU (Electronic Control Unit)*1

4. Button*1

5. Power Cable Set*1
Electrical Fuse*2

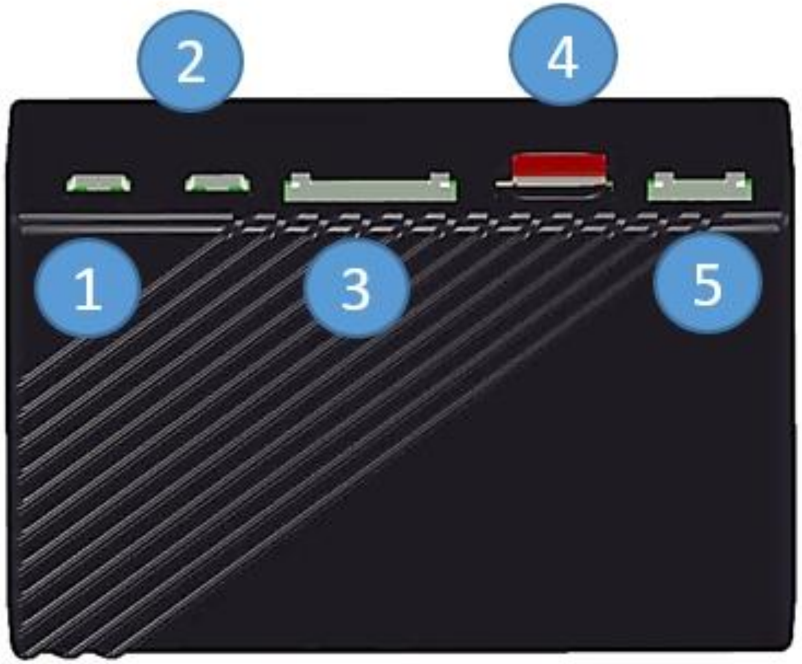
6. Front Camera Extension Cable*1

7. Rear Camera Extension Cable*1

8. 3M Acrylic Foam Tape*2

9. MicroSD Card*1

2-6.Control Box Interface Description



1. Rear Camera
2. Front Camera
3. Button Wires
4. Micro SD card Slot
5. Power Wires

Warning: The MINI USB port of the control box is only used for accessory LVDS CMOS cameras. Do not insert any other MINI USB products or power supplies to avoid damage.

3.File Locking Function Description

The host can manually lock file and may trigger an automatic file lock due to external impact.

Automatic Lock:

When the built-in Triple-axis Acceleration In-sensor of the host detects excessive acceleration, it will automatically determine that an impact accident has occurred and thus immediately lock the file.

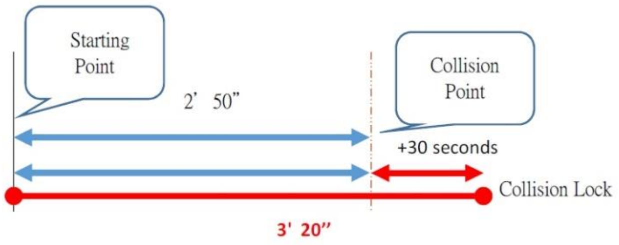
Manual Lock:

Please press the button and hold for 3 seconds to keep the files that are currently being recorded from overwritten. At this time, the red light will flash slowly, indicating that the recording function is locked.

File Locking Reference:

The lock file is based on the "file" instead of the recording time. For example: the exact trigger file is a trigger file plus 30 seconds from the start point to the trigger point.

Take the 3 minutes file as an example:

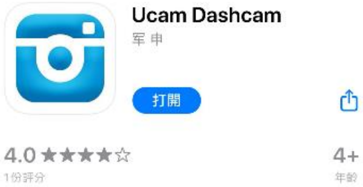


Note: Locked files can occupy up to 30% of the SD card's capacity. When this capacity is exceeded, the oldest locked files will be overwritten.

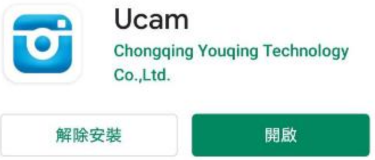
4.APP Instructions

4-1. Method of App Downloading & DVR Connecting

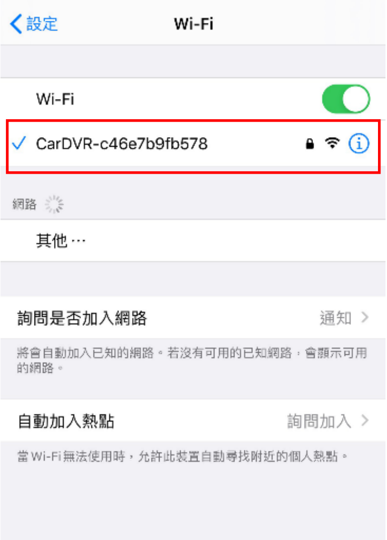
1. For iOS users, please download the "Ucam Dashcam" App. As for the Android users, please download the "Ucam" App.
2. When trying to start up the DVR, please turn on Wi-Fi on your mobile device and search for the signal of the DVR station. The name is similar to "CarDVR-123456abcdef". (The last 12 digits are independent identification codes, which are different for each device)
3. Select and click "Wi-Fi Connection" and enter the default password "12345678".


Ucam Dashcam
军 申
打開
4.0 ★★★★☆
1份評分
4+
年齡

<IOS APP>


Ucam
Chongqing Youqing Technology Co.,Ltd.
解除安裝
開啟

<Android APP>


設定
Wi-Fi
Wi-Fi
✓ CarDVR-c46e7b9fb578
網路
其他…
詢問是否加入網路
通知
自動加入熱點
詢問加入

將會自動加入已知的網路。若沒有可用的已知網路，會顯示可用的網路。

當Wi-Fi無法使用時，允許此裝置自動尋找附近的個人熱點。

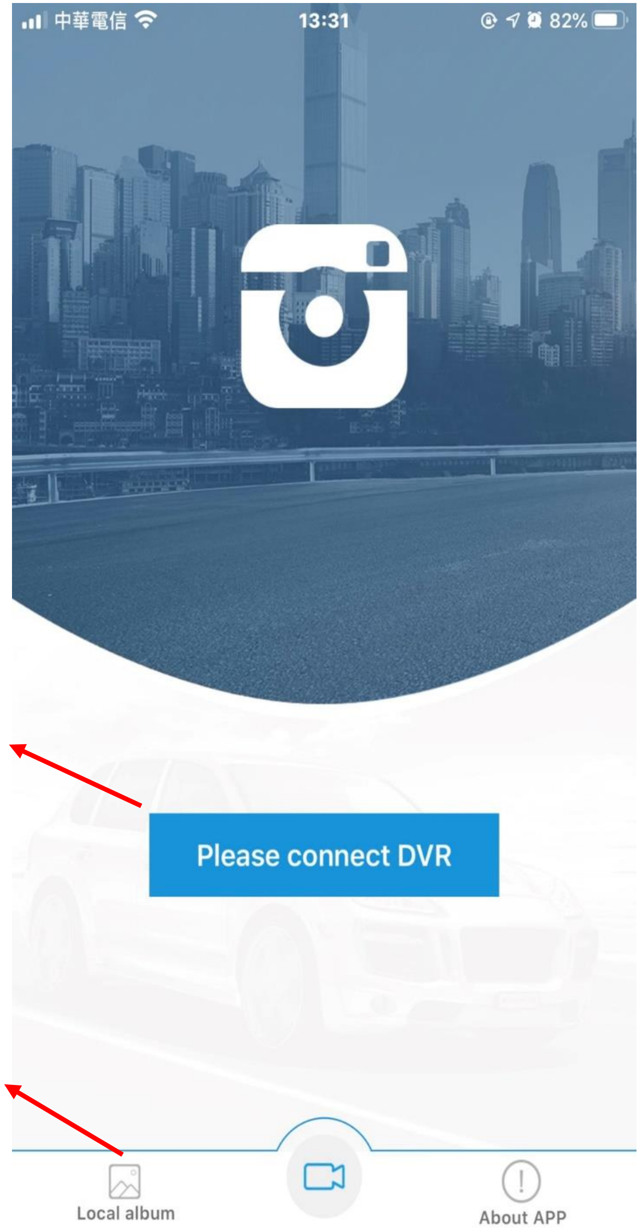
<mobile Wi Fi>

IOS

Android

Select and Click "DVR Connection". (Needed to connect to the Wi-Fi hotspot of DVR first)

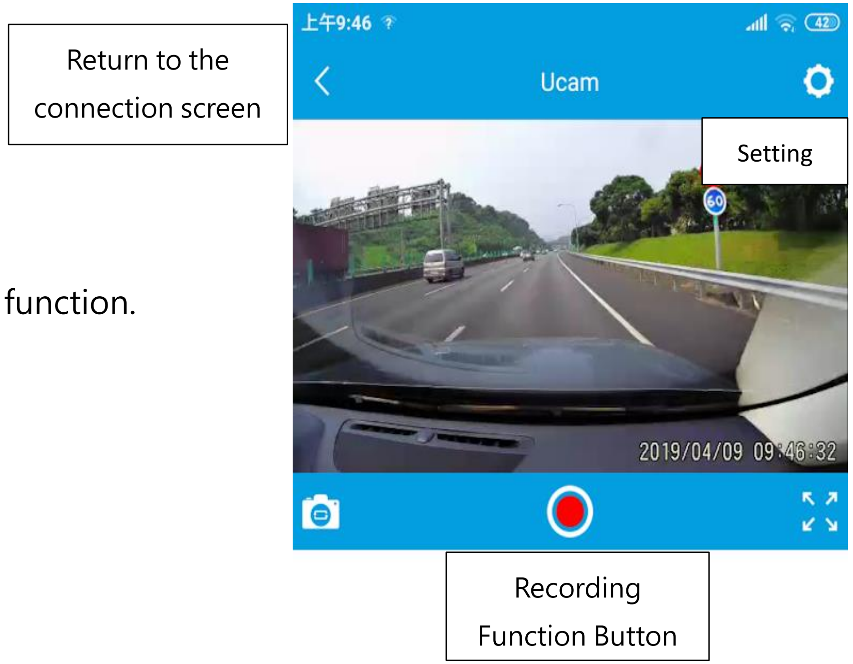
Users may browse through the files stored in the mobile device.


中華電信
13:31
82%
Please connect DVR
Local album
About APP

4-2. App Screen Displaying After DVR Connect

Instructions

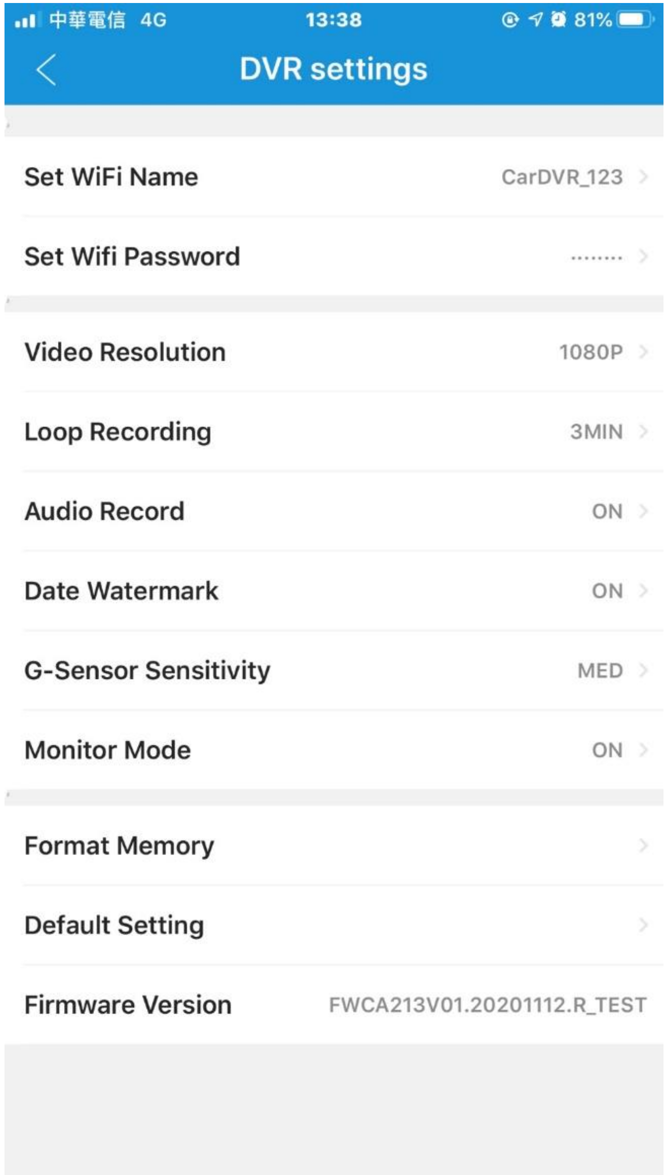
- Setting: Enter the setting page
- Return to the connection screen: Enter the connection screen of the DVR.
- Recording function button: Press to manually start/stop the DVR recording function.
- Picture-in-picture switching: The monitoring picture-in-picture can be arbitrarily switched to the following four modes
    1. The front camera is the main screen, the rear camera is the sub one.
    2. The rear camera is the main screen, the front camera is the sub one.
    3. It only shows the front camera.
    4. It only shows the rear camera.
- Full-screen switching: Switch the user interface to upright or landscap
- Photo shooting: Take the current picture immediately. (A DVR equipped with dual recorders will shoot both front and rear images at the same time)
- Video: When users browsing through the video in DVR, the recording function will automatically pause
- Photo: When users browsing through the photos in DVR, the recording function will automatically pause
- **Note: DVR is synchronized with the date and time on the mobile device through the App. If the battery is removed due to maintenance or other factors, please re-use Wi-Fi through connecting to ensure the correct recording times.**



Video

Photo

4-3. APP Setup Instructions


中華電信 4G 13:38 81%

DVR settings

Set WiFi Name	CarDVR_123
Set Wifi Password	········
Video Resolution	1080P
Loop Recording	3MIN
Audio Record	ON
Date Watermark	ON
G-Sensor Sensitivity	MED
Monitor Mode	ON
Format Memory	
Default Setting	
Firmware Version	FWCA213V01.20201112.R_TEST

Video Resolution:

Users may choose either single-camera recording 1080P or dual-camera recording 1080P_1080P, 1080P_720P, 720P _1080P, 720P _720P. It depends on whether equipped with a rear camera, the system will automatically show a dual recording option.

Loop Recording:

When users choose to record a single image, the file storage time can be selected from 3 minutes, 5 minutes, and 10 minutes.

Audio Record:

Choose whether to record the sound while video recording.

Date Watermark:

Choose whether to display the time of photographing and video recording.

G-Sensor Sensitivity:

When the vehicle experiences a collision, the video will be locked. Users may choose the collision sensitivity to be off, low, medium and high.

Note: If files are frequently locked, the sensitivity can be lowered.

Monitor Mode:

Users may choose to turn on or off parking recording.

Note: If the vehicle is hit by an impact after it turned off, a 10-second recording will start within 3 seconds while showing as a file locking icon.

Format Memory :

Formatting the SD card as FAT32.

Note: It is recommended to format monthly or every other month.

Default Setting:

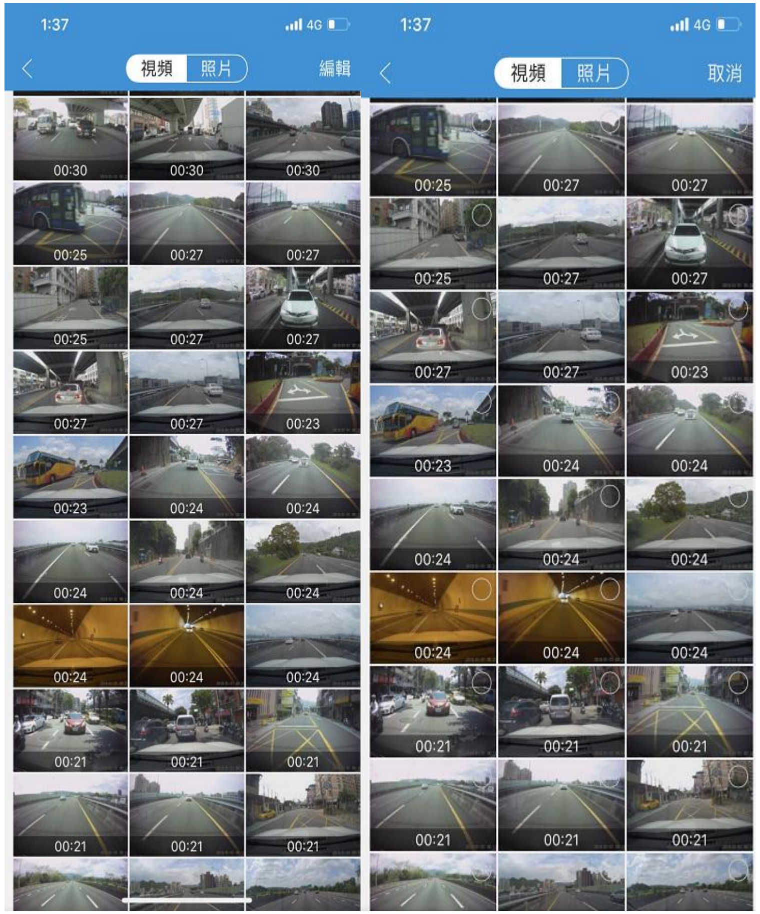
Choose to reset as original settings.

Firmware Version:

Firmware version

5. Videos and Photos Browsing Function

5-1. Use of Videos and Photos Browsing Function On the App


1:37
4G
視頻
照片
編輯
00:30 00:30 00:30
00:25 00:27 00:27
00:25 00:27 00:27
00:27 00:27 00:23
00:23 00:24 00:24
00:24 00:24 00:24
00:24 00:24 00:24
00:21 00:21 00:21
00:21 00:21 00:21
1:37
4G
視頻
照片
取消
00:25 00:27 00:27
00:25 00:27 00:27
00:27 00:27 00:23
00:23 00:24 00:24
00:24 00:24 00:24
00:24 00:24 00:24
00:21 00:21 00:21
00:21 00:21 00:21

1. **Video:** Display the videos in the DVR in time sequence. It will automatically overwrite the oldest file as the capacity is full and record it in a loop. Whether the video is locked automatically or manually, a lock mark will be displayed in the lower-left corner of the file.

2. **Photos:** Display the photos in the DVR in time sequence, including photos taken by the physical camera button or App.

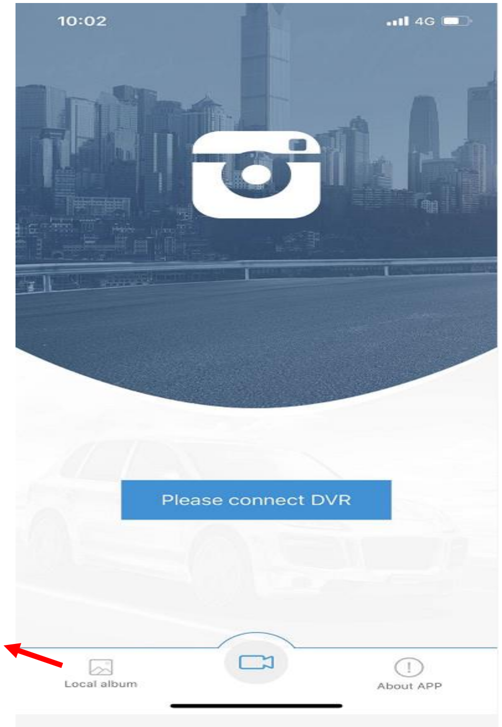
3. Press the **[Edit]** button in the upper right corner to check the file to be downloaded. You may press the **[Download]** button to start downloading or the **[Delete]** button to delete the file.

4. **File Name Description:**

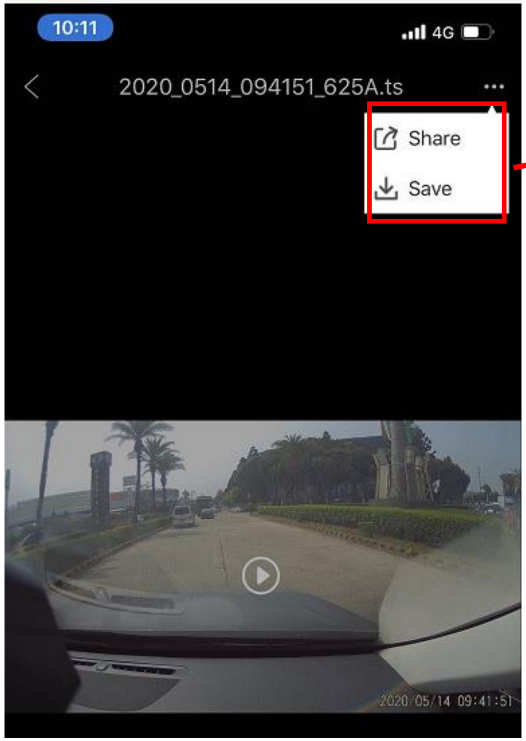
   Name Format of the content recorded by the Front Camera:
   「Y_MD_HMS_no.A.TS」
   (ex：2020_0429_152526_930A.TS)
   Name Format of the content recorded by the Rear Camera:
   「Y_MD_HMS_no.B.TS」
   (ex：2020_0429_152526_930B.TS)

Point: DVR will reserve 30% of the memory capacity to save the locked files. Once it exceeds, it will automatically delete the oldest locked files and start loop recording. Please remember to back up files on the mobile device as soon as possible as suggested in case the file is locked.

Note: Please note that the video format is TS, which cannot be stored in iPhone's photo album. It will be stored in the [Local Album] of the APP first. Users may click the upper right corner "save button" on the video that needs to be downloaded, to convert the format into MP4 that can be recognized and stored on iPhone.

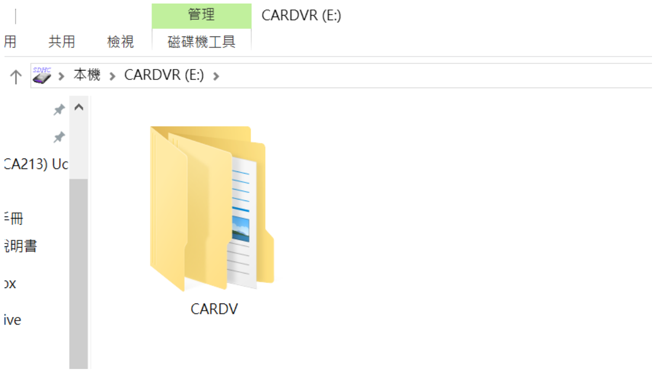

10:02
4G
Please connect DVR
Local album
About APP

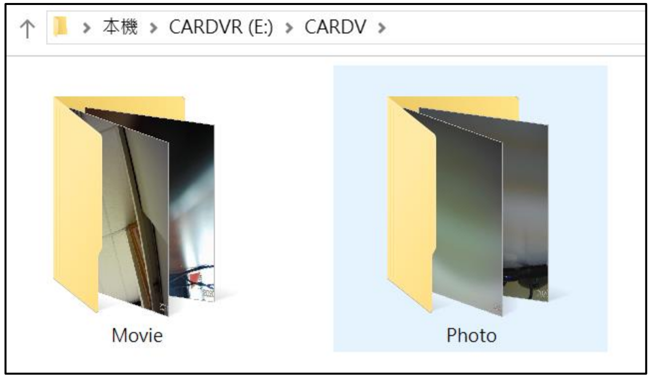
[Local Album] of the APP

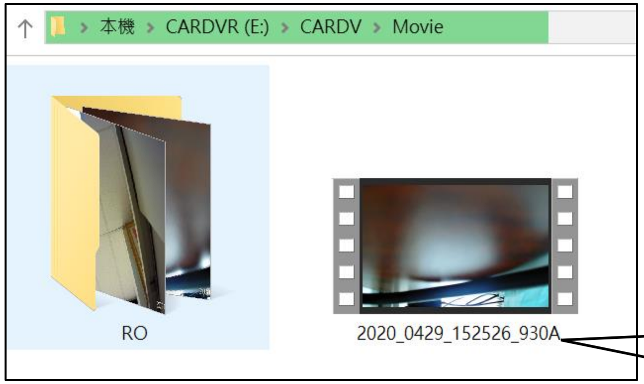

10:11
4G
2020_0514_094151_625A.ts
Share
Save
2020/05/14 09:41:51

Share/Save

5-2. Function of Computer Browsing Videos and Photos On Micro SD card


管理
CARDVR (E:)
用
共用
檢視
磁碟機工具
本機 › CARDVR (E:) ›
CA213) Uc
冊
明書
ox
ive
CARDV


本機 › CARDVR (E:) › CARDV ›
Movie
Photo


本機 › CARDVR (E:) › CARDV › Movie
RO
2020_0429_152526_930A

At the end of the letter A stands for the front camera file and B stands for the rear camera file

CARDV is an Audiovisual folder. Include the following:

1. Movie Folder: Used to store general video files
2. Photo Folder: Used to store photo files
3. RO Folder: Used to store general lock files and parking monitoring lock files

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/ TV technician for help.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.