CLS-740

Conbuzz Luxury Series

User Manual

www.winycam.com

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1. Safety Precautions

Cautions

- Do not operate the product during driving. It may cause accidents.
- The Product must be mounted at a point which would not obstruct the driver's view.
- Do not allow unauthorized disassembly or alteration to the product. It may cause malfunction and the consequent product damage will not be covered under the warranty.
- If the product is damaged or power is cut off by a serious accident, the product may not be able to record such an event.
- Always keep the windshield clean to enable normal recording.
- Since the product is the purpose to record video data during driving, the video quality may be deteriorated when in/out the tunnel and at night or by contrast and backlight.
- Contaminated Camera Lens may deteriorate the video quality. Always keep the Lens clean.
- Do not leave the product under direct sunlight or inside the closed vehicle as it may cause malfunction.
- Do not use chemicals or detergent to clean the product. Clean gently with soft cloth.
- Temperature conditions below -20˚C or above 70˚C (-20˚C or 60˚C) may cause malfunction or breakdown of the product. (Please keep the storage temperature when not using the product)
- Do not use the product in places at high temperature/humidity.
- Do not force the product (especially buttons and cradle). It may cause malfunction or breakdown.
- Operate the product for 3-5 minutes to check for correct recording before each use.
- If the product is exposed to sunlight or high temperature for a long time in summer, it may be difficult to operate normally.
- Do not turn off power, or remove the SD card during firmware upgrading as it may cause malfunction.
- Do not touch the power cable (cigar lighter cable / hardwire cable) with wet hands as it may cause electric shock.
- Do not use a damaged cigar lighter cable or hardwire cable as it may cause electric shock or fire.
- Do not leave the cigar lighter cable or hardwire cable in near heating devices.
- Do not leave the product with connected cigar lighter cable while not use for a long time. please remove the cable from the product.
- Insert the cigar lighter cable or hardwire cable securely.
- Do not bend or pull the cigar lighter cable or hardwire cable by excessive force, or leave heavy objects on the cable. It may damage the cord and electric shock or fire)
- Even if overwriting is set to Off, some recorded files may be deleted to make free space at boot time.

Caution to use SD card

- Please check the record file of the SD card and format it regularly in order to check the product condition. (PC format once or twice a month)
- Since the SD card is a consumable goods, data loss or recording may not be possible due to an error during long-term use.
- Do not force the SD card out if the product is being recorded. It may cause poor SD card performance and data loss.
- Excessive temperature increase inside the vehicle may cause a problem with data storage and loss. Please park in a shady place in the summer.
- Please keep the SD card separately when checking for accident or damage to the vehicle. Important data may be deleted due to overwriting.
- Please note that the last recorded file may not be saved if you turn off the main unit and remove the SD card before the end of the announcement or before the power LED turns off.
- Typically, SD cards are consumable goods and may not be able to save data when used for a long time. In this case, please purchase a new SD card and check the recorded video and SD card to make sure there is no problem for data storage.
- Do not remove the SD card while driving.
- Please remove it safely on parking and stop.
- After power on, please check whether it is normal to drive.
- Please contact the manufacturer in case of an SD card error, as the warranty period of our SD card is 6 months.
- Third party SD cards are not provided with Warranty service except for the SD card provided by us. We shall not take any responsibility for loss and damage of the device if used with other SD card.

2. Before Use

- Thank you for purchasing WINYCAM product.
- This user manual contains important information about the proper use and cautions in use of the product. please read carefully before use.
- The CLS-740 is an auxiliary product to alert users for safe driving and prevent accidents, by recording video while driving. Also, purpose for evidence of an accident.
- The CLS-740 does not guarantee that all accidental images will be stored and accidental moments due to small shocks that do not trigger the shock detection sensor may not be recorded.
- We are not responsible for any possible damages such as data loss and product loss due to product malfunction that may occur at the time of an accident or any other case.
- All rights of design and software of CLS-740 are in WINYCAM and protected by copyright law.
- The CLS-740 may change without notice for further function improvement.
- This user manual is based on current standards and may contain technical or editorial errors or omissions.
- This user manual is subject to change without notice to improve the product.

3. Product Feature

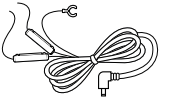
- **Hight quality Lens and high image quality resolution support**
  - Front QHD(2560*1440P) Rear FHD(1920*1080P)
  - Front 30FPS / Rear 30FPS
- **Various recording function and video data**
  - It offers a variety of recording functions such as driving, event, motion, automatic parking Recording
  - Set recording image quality (Super high quality / High quality / Normal quality)
  - Possible to save driving record with GPS support (optional) Built-in G sensor - Event recording
  - It is possible to check the position of the vehicle on the map when changing various set values with GPS and PC viewer software. (It is also possible to play back recorded video on a general video player (eg, Gom Player))
  - Ability to set each capacity of the driving / Event / Motion folder
- **High quality voice record and voice guidance**
  - Operating instructions service by voice guidance
  - Voice recording ON/OFF function and speaker output ON/OFF function
  - High performance microphone built-in
- **Back-up battery and vehicle constant power discharge protection function**
  - Large capacitors are built-in so that images can be saved safely when the power cut off and current consumption of less than 2.5mA (12V standard)
  - "If below the set cut-off voltage is maintained for more than 30 seconds, the dashcam will automatically shut down to prevent vehicle battery drain." (Some differences may occur depending on vehicle type and vehicle condition)
- **Other**
  - Smooth and emotional design (easy removable main unit)
  - Security LED lamp on the Front body (LED lighting function ON / OFF can be set in PC viewer only)

4. Package

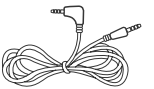
Standard Package

CLS-740

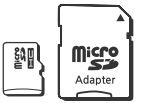
Bracket



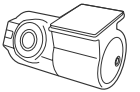
Hardwire cable



Rear Camera cable



Micro SD card & Adapter



Rear Camera

Option Accessories

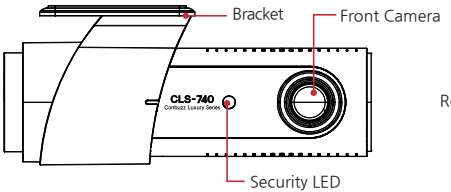
External GPS

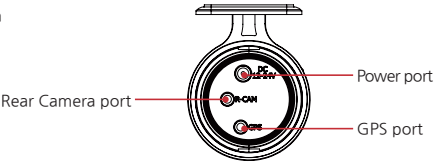
Cigar lighter cable

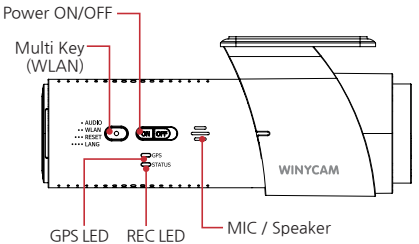
※ Before using the micro SD card, please install the viewer program on the PC.
(If the viewer program has deleted from the SD card, you can download it from our website)

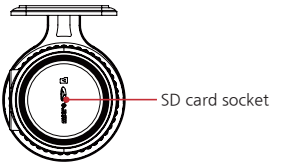
The picture of the packaged product in the User's Manual may differ from the actual product.

5. Structure


Bracket
Front Camera
CLS-740
Security LED

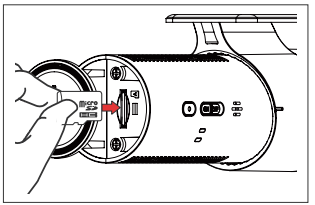

Power port
Rear Camera port
R-CAM
GPS port


Power ON/OFF
Multi Key
(WLAN)
AUDIO
WLAN
RESET
LANG
ON
OFF
GPS
STATUS
WINYCAM
GPS LED
REC LED
MIC / Speaker

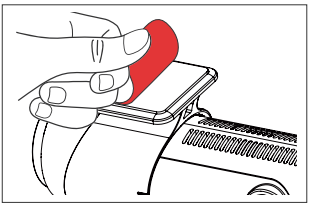

SD card socket

6. Installation

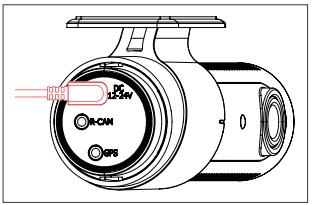
1. Front Camera Installation



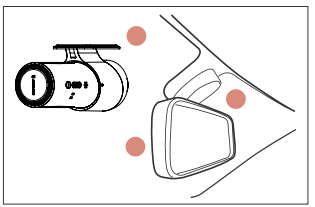
1. Insert Micro SD card to the slot of the device.
(check the any faulty of the SD card)



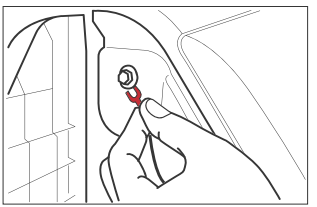
2. Remove the protection film from the bracket's tape.



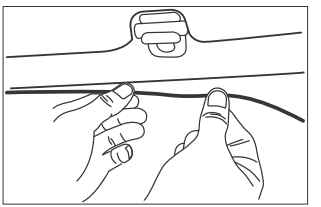
3. Connect the Hardwire cable to DC-IN port.



4. Attach the bracket at the left which from the windshield.



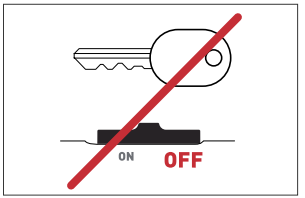
5. Connect the Hardwire cable into car fuse box. (except cigar lighter cable)



6. After checking the device, clean up the cables.

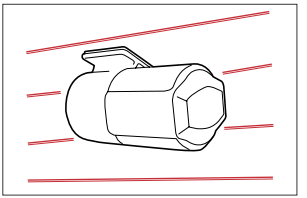
2. Rear Camera Installation

1. Vehicle / Main unit Power OFF



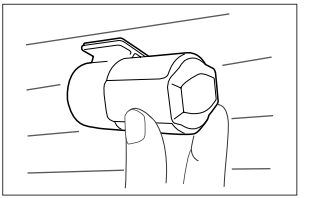
Please power off the car before installation.
(disconnect the power connection)

2. Install a rear camera



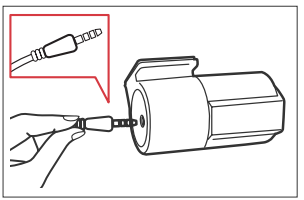
Remove the protection film of the bracket and attach the Camera in the proper location.

3. Adjust a rear camera angle



Adjust the camera angle and fix it.
(To adjust the angle, the horizon is seen above the right center of the screen)

4. Connect video cable

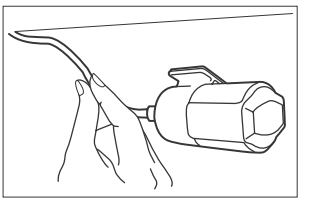


Plug (—) shape's rear end of the plug to the camera connection, (ㄱ) shape's one to the device. (※caution : Please note that if the wrong connection, the video will not be output)

5. Check an operation

Turn the device on and check whether to record properly.
(Left / Right setting using inverting switch)

6. Arrange a front / rear camera cable



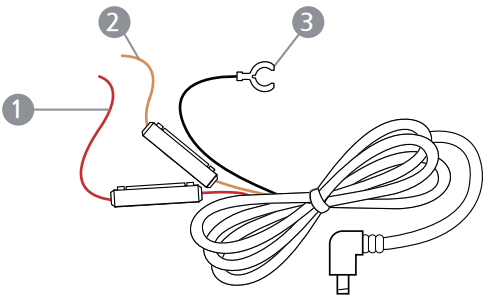
Arrange the wire by using the cable clip.
(Please be careful not to drop or damage the cable during installation)

3. Fuse cable installation

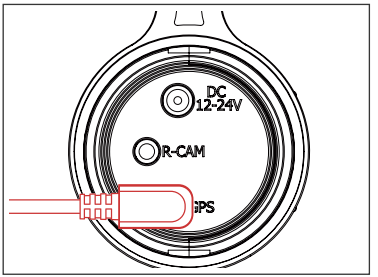
1. How to install a fuse cable

Fuse cable has 3 lines.(connect to the fuse box only)

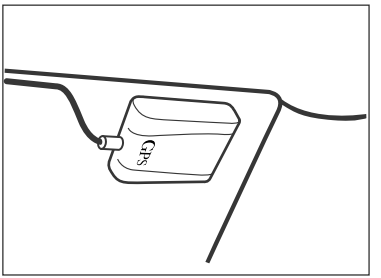
1. Battery Line (Red) : Connect to stop and emergency light.
2. ACC Line (Yellow) : Connect to Fuse power
3. Ground Line (Black) : GND



7. External GPS Installation



Connect the external GPS to GPS port on the device.



Fix the external GPS into appropriate place, and tidy up the cable.

Caution on GPS Installation

This feature may not be available in some countries.

- Other electronic devices may have interfered with GPS signal if placed too close to the device. Keep its distance from them as much as possible.
- GPS may be affected by weather conditions, satellite signal, or surrounding geographical features.
- Coated windshields can interfere with GPS signal which may result in poor or blocked GPS reception.

8. How to Record

1. Recording : CLS-740 is automatically booting at power on, and a constant(normal) recording starts as an initial recording mode.
2. Recording Mode : it is classified into driving recording mode and parking (motion) recording mode.
3. Recording Method : it is classified into a continuous(normal) recording, event recording, motion recording.

※ For automatic recording and manual recording methods, please refer the below table.

<table>
<tr><th>REC Mode</th><th>REC Method</th><th>Auto REC Mode</th><th colspan="2">REC Time</th><th>REC file folder</th></tr>
<tr><td rowspan="2">Driving Mode</td><td>Continuous(N) REC</td><td>-</td><td colspan="2"></td><td>Normal</td></tr>
<tr><td rowspan="2">Event REC</td><td>In G-sensor detect shock</td><td rowspan="2">10sec before Event, 10sec above after event</td><td rowspan="2">10sec before Event, 10sec above after event</td><td rowspan="2">Event</td></tr>
<tr><td rowspan="2">Parking (Motion) Mode</td><td>If the ACC power cut-off continues for 30 sec on the permanent power connection, Switching the automatic motion Recording</td></tr>
<tr><td>Motion REC</td><td>When detecting motion</td><td>10sec before Motion, 10sec above after Motion (10 seconds added when motion continues)</td><td>10sec before Motion, 10sec above after Motion (10 seconds added when motion continues)</td><td>Parking</td></tr>
</table>

9. REC Time

▶ Default Setting

(Unit : Min)

CH	Video Quality	Camera	32GB			64GB			128GB		
			Normal (50%)	Motion (20%)	Event (30%)	Normal (50%)	Motion (20%)	Event (30%)	Normal (50%)	Motion (20%)	Event (30%)
1CH	Super High	Front	152	61	91	304	122	182	608	243	365
	High	Front	177	71	106	353	141	212	706	282	424
	Normal	Front	211	84	126	421	168	253	842	337	505
2CH	Super High	Front/Rear	98	39	59	195	78	117	391	156	234
	High	Front/Rear	113	45	68	226	90	135	451	180	271
	Normal	Front/Rear	133	53	80	267	107	160	534	213	320

• By Time: If there is insufficient storage space, the old recording files have automatically deleted from the oldest recording file.

• By Type: When saving a recording file, set the memory usage ratio by recording type.
If the memory space is full then the recording files have automatically deleted sequentially. Hence, the accident video recording files may also have deleted.

10. LED Guide

Item	Front LED	Rear LED				
		POWER LED		GPS LED (Blue)		
		Red	Green	NO GPS	GPS OFF	GPS ON
Booting	ON	ON	OFF	ON		
F/W update	0.25sec ON/ 0.25sec OFF	ON	OFF	ON		
Continuous REC (N)	1sec ON/ 1sec OFF	ON	OFF	OFF	1sec ON/ 1sec OFF	ON
Event REC (E)	Quickly ON/ OFF repeat	1sec ON/ 1sec OFF	OFF			
Parking REC (P)	ON	ON	OFF			
Parking REC standby	OFF	ON	OFF			
Wi-Fi ON	-	1sec ON/ 1sec OFF	1sec ON/ 1sec OFF			

11. Voice Guide

Situation	Announcement
No SD Card or SD Card Error	" Please check SD Card "
Continuous(Normal) Recording	" Start regulary recording "
Event Recording	" Ding - Dong "
Parking Recording	" Start parking recording "
Power off	" Shutting down the system "
Wi-Fi On / Off	" Wi-Fi is enabled / disabled "
MIC On / Off	" Microphone is on / off "
No Rear Camera	" Check your rear camera "

※ Only when the recording method is set to event recording in the configuration setting, the voice announcement " Event recording starts" is displayed.

12. PC Viewer Installation

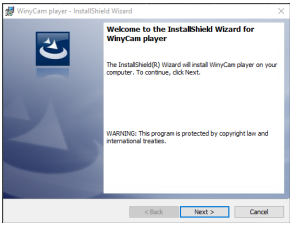
1. System Requirements

- Windows XP(32bit), Windows Vista(32bit), Windows7(32/64bit), Windows8(32/64bit), Windows10(32/64bit)
- Pentium4 2.8GHz & RAM 1GB.
- Display monitor resolution : 1024 X 768
  DirectX support (WPF)

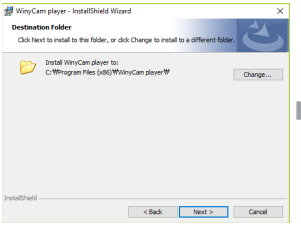
2. Install

- Download the latest WINYCAM Viewer on the website. (www.winycam.com) If you run "Setup.exe", WINYCAM Viewer will be installed.
- After the installation, it will be continued following to the installation sequence of setting up the dialog box.

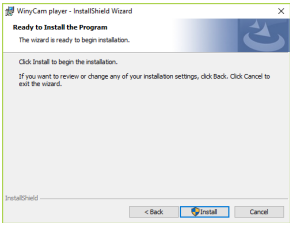
1.Click the Next button



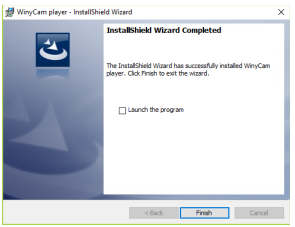
2. Select the save location to install



3. Click the install button



4. Click the Finish button



※ Depending on your PC environment, the program installation may take a long time.

13. PC Viewer Program

Item	Function	Item	Function
①	1CH / 2CH View	⑯	Rewind 5 sec
②	Viewer Configuration	⑰	Playback or Pause
③	System Configuration	⑱	Play Stop
④	Print	⑲	Forward 5 sec
⑤	Screen Capture	⑳	File Skip
⑥	Zoom	㉑	Control Volume
⑦	File separation	㉒	Total File Time / Playback Time
⑧	Play list / Map button	㉓	Brightness / Contrast
⑨	Finding file location	㉔	GPS Signal Condition
⑩	REC file list / Map display switching button	㉕	Driving Speed
⑪	Playing bar	㉖	Latitude / Longitude
⑫	Full screen	㉗	G-sensor Information
⑬	Switching Left & Right	㉘	Playback Video display
⑭	Switching Up & down		
⑮	File Skip Back		

14. Playback

1. Playback in normal video

1) Remove the SD card from the device

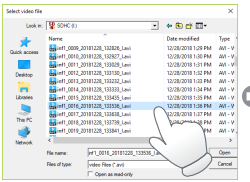
Open an SD card slot cover and press softly then an SD Card can be removed easily.

2) Connect a SD card to PC

Insert an SD card to SD card Reader or adapter, and connect it to PC.

3) Playback

Open a removal disc, you can see each folders. And click files to playback which is saved in each folders.



- inf : Constant(normal) record
- moe : Motion record which is detected by motion detection sensor. (Parking mode)
- evt : Event record which is detected a shock by shock sensor.
- GPS Information is displayed in the original viewer.

You can check only front REC when playing by a video player not WINYCAM player

2. Playback in dedicated video

1~2) Same method with a normal video player

3) Start the Viewer

Click the icon to operate the viewer program

4) Loading playback files

Click the magnifying glass on the FILE LOCATION at the top right of the viewer to specify the SD card path. The file list is then automatically sorted by recording attributes.

5) Playback

※ Playback list file will be sorted by N, E, P each file.

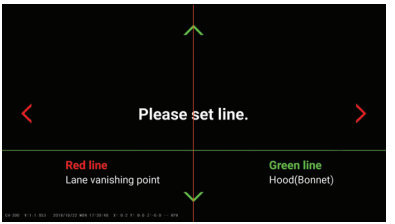
N : Continuous (normal) REC file list
E : Event REC file list
P : Parking REC file list

15. ADAS set up

1. After the Wi-Fi connection, go to the ADAS setup screen with the following menu. Settings -> Preferences -> ADAS Settings -> Change

2. Change the detection area to operate LDWS (over up to max.middle area)

3. After set up, press the finish button and send, the dashcam will be rebooted and the setting value after booting is applied.



16. Mobile download (Wi-Fi)

1. How to download

▪ WINYCAM Mobile APPs

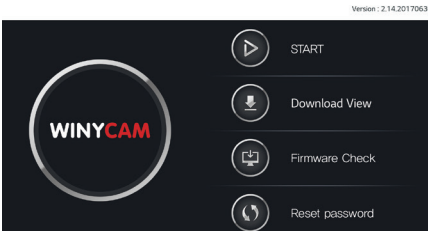
- Support for Android and iOS
- Search “WINYCAM” on Google play and APP store in iTunes.

▪ Precaution before use

- Real-time and playback images may be delayed depending on the specifications of the smartphone.
- Do not use while driving for safe driving because there is an accident risk during driving (always use after parking/stop).
- Built-in Wi-Fi and it can be used without purchase.
- If you can not find the device when connecting to your smartphone for the first time, please check the Wi-Fi signal strength or setting of your phone.
- If the [Check Internet Service] menu in the Wi-Fi Advanced Setting is "On", change it to "Off" and try again.
- Set the entire Wi-Fi "Signal strength (sensitivity) setting" and try again.
- Depending on the receiving sensitivity, there may be a discontinuity.
- It is stable to use the connection from inside the car.
- Wi-Fi connection may be different for each mobile phone model. When disconnected, it will be auto-recovered (save frame).

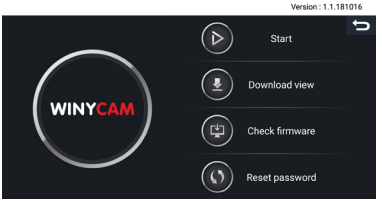
2. Smartphone Wi-Fi - iOS

-In a connectable environment, the distance range between the dashcam and the smartphone is about 10 meters (33 feet).



1) START : Attempts to Wi-Fi connection to the device.
   - If the device is connected to your mobile APP, “Ding-Dong” alerted and the menu screen is appeared in the APP.
   - For iPhone, it will enter the main menu immediately as soon as you press START button by connecting Wi-Fi manually in the setting menu.
2) Reset password : Reset the Wi-Fi password '00000000' on your phone. (Android only)
3) iOS connection password : Enter the initial password '00000000' in the Wi-Fi settings menu. (iOS only)

3. How to use Smartphone Wi-Fi



1. Initial Screen

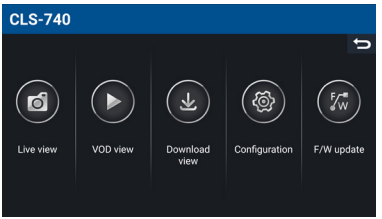
Click "Start" to go to the Wi-Fi list.

Press "Check firmware" to check the latest firmware of black box and download it to your smartphone.

2. Wifi list (Android only)

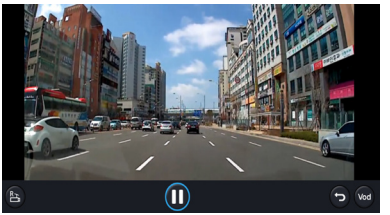
Search and show the dashcam Wi-Fi list around you.

Select your Wi-Fi.



3. Main Screen

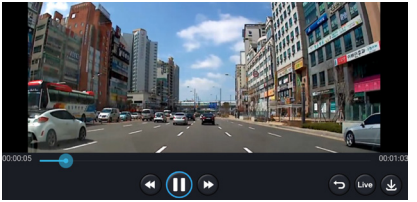
Move to the screen when selecting menu.



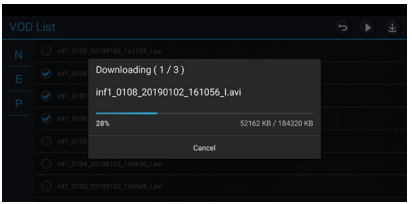
4. Viewing video

- You can watch the video in real time
- F / R button (Front / Rear video switching)

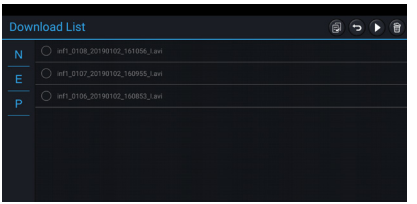
5. VOD list
- If you select multiple files can be played back continuously.
- After you select a file, touch the play button at the top will play the selected recorded video.



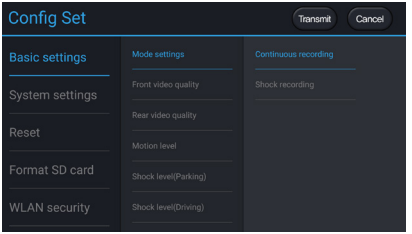
6. VOD Screen
- You can see recorded video in the dashcam.
- Front / rear switchable.



7. Download
- After selecting a file, press the download button at the top and you can download the video recorded in the dashcam to your smartphone.
- Continuous downloading is possible when multiple files are selected.

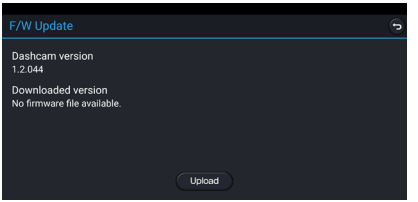


8. Download list
- You can see the list of video files downloaded from smartphone in the dashcam.
- After selecting a file, you can play and delete the video.



9. System Configuration

- It shows the dashcam configuration.
- Change the setting of the dashcam with the transfer button after change the setting or initialization.
- The SD card format function allows you to format the SD card in real time.

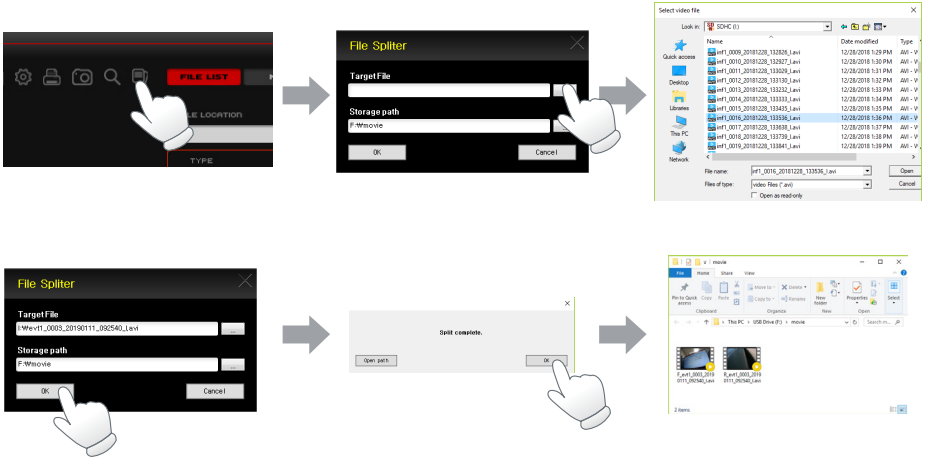


10. F/W update

- It shows the firmware version of the dashcam and the firmware version information downloaded from the start screen.
- If the downloaded firmware version is higher than the dashcam firmware version, it can be updated.

17. How to separate video

1) Press “Front & Rear Extract” button on the original PC viewer program.
2) Select a video file to separate and click “OK” button.
3) Saved separated file in(ex: C:₩Users₩AppData₩Roaming₩WINYCAM₩Video)



18. F/W Upgrade

▪ Running the Firmware

1. Remove the SD card from the device after the dashcam is completely powering off.
2. After connecting the SD card to the PC, copy the firmware file to the top of the SD card.
3. Insert the SD card into the dashcam and power it on to boot the device.
4. When the firmware update has completed, the firmware file stored on the SD card have automatically deleted and the dashcam has rebooted.

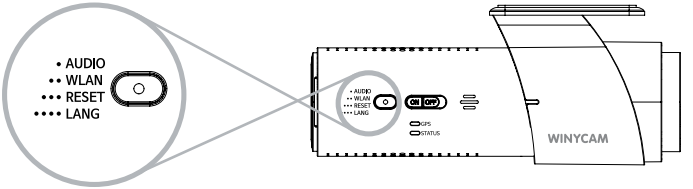
19. SD card format

▪ How to format the SD card on the device

1. Please turn the power on while holding down the button.
2. Press and hold the button to enter the formatting step after voice guidance (“Do you want to format your SD card?“).
3. If you press the button briefly in the formatting step, the SD card will be formatted and it will switch to normal recording after formatting has completed.

※ If the button is not pressed during the formatting step, the voice guidance will be repeated and the formatting will automatically be canceled when the power is turned off.

20. How to use Multi-Key



[Multi-Key] [Rear]

▶ AUDIO On/Off

- If you press and hold the Multi-Key button for 3 seconds, the “Ding-Dong” sound will once and when you release the button, the microphone will work with the message "Microphone is on".
  If you want to turn off the microphone, you press and hold the button for 3 seconds again.

▶ WLAN (Wi-Fi)

- When using, you can change the setting to WLAN On by using Multi-Key.
- If you press and hold the Multi-Key button for about 6 seconds, it will “Ding-Dong” sound twice, and when you release the button, the WLAN will be activated with the message "Wi-Fi is on".
  If you want to turn off the WLAN, you press and hold the button for 6 seconds again.

- If the external temperature has maintained above 55 degrees for more than 30 seconds, the setting will automatically be changed to WLAN OFF to protect the WLAN module. The WLAN OFF state has maintained even when the external temperature drops below 55 degrees.

▶ Factory reset

- If you press and hold the Multi-Key button for about 9 seconds, it will sound “Ding-Dong, Ding-Dong, Ding-Dong” 3 times. After this sound, please release the button and then it will sound 3 times repeatedly for about 20 seconds and press once the button to reset the product with "End" message.
  If you do not press the button for 20 seconds that is 3 times repeated, the initialization is canceled.

▶ Language selection

- If you press and hold the Multi-Key button for more than 9 seconds, a voice will speak for each country and when you release the button for the desired language.
- The language is changed to Korean〉English〉French〉Japanese〉Chinese〉Spanish〉Korean.

▶ Precautions for Product First Use

- If the SD Card Format alerted when you install this product for the first time, please press the WLAN Button to make the SD Card Format.
- After SD Card Format, the recording is normally performed after the "continuous recording starts" comment.
- The SD Card Format is used to notify the system of fo rmatting to create a system config file when inserting the SD Card
- If you do not press the WLAN Button, a Format notification will be generated continuously.

21. Specification

CH	SPEC	CH	SPEC
CPU	ARM Cortex A7 core	Dimension	118 (W) x 35 (H) x 52 (D) (with bracket)
Memory	1Gb Serial NAND	Video Format	AVI
RAM	256 MB DDR	ADAS	LDWS , FVSA
Recording channel	2CH	Voice recording	Built-in high sensitive microphone
Camera	Front : OV4689 Rear : IMX323	Language	English(default), Korean, Japanese, Chinese, French, Spanish
Image quality	Front : QHD (2560x 1440) Rear : FHD (1920x 1080)	Video codec	H.264 / AVC
FPS	Front / Rear : 30 FPS	Memory	microSD Card (up to 128GB opt)
View angle	Front : 110° (H) X 60° (V) X 130° (D) Rear : 102° (H) x 54° (V) x 120°(D)	High temperature cut-off	70℃, ±5℃
Shock senser	support(5 steps, Driving/Parking optional setting menu)	Cut-off voltage	Built-in (6 steps setting) : 11.4(23.1) / 11.6(23.4) / 11.8(23.7) / 12.0(24.0) / 12.2(24.3) / OFF
GPS	External GPS		
Power input	DC 12V~24V	Operating temperature	-20℃ ~+60℃
Battery	Super Cap 2.5F@5V(5F@2.7V x 2ea)	Storage temperature	-30℃ ~+80℃

22. Warranty service

Please refer to the following questions before Warranty service.

1. Power is not turn ON.

※ Check once again if the power cable is properly connected. If the problem is not solved, please contact our service team.

2. The map is not shown when a video is played on a PC original viewer program.

※ Please check your internet connection.

※ Please check if your internet Explorer is v7.0 or higher.

3. Power is connected, but LED is not lighting.

※ Please check if the power cable is connected properly. Then if still LED does not light, the product or SD card may have defected. Please contact our service team.

4. GPS signal does not recognize.

※ GPS signal reception may be interrupted temporarily depending on the environment and locations. Drive your vehicle to other location where GPS signal reception is abled. Please wait 3-5 minutes in the GPS signal reception area. If the signal still does not recognize, please contact our manufacturer.

5. The product does not recognize the SD card.

※ Remove the SD card from the product after power OFF and check for any foreign material or abnormality around the connecting terminal. Format the SD card and try again. If the SD card is old, please replace a new one.

Precaution before use

1. Please check for any defect on the product before installation. The Company shall not take responsibility for any cost or an expense incurred as a result of the failure to check before installation.
2. If the installation was held at a service center other than those designated by the Company, the Company shall not take responsibility for cost or expense charged at such a center.
3. If the constant power protect function is set 'OFF', monitoring during parking will be performed only for a certain period of time. If the vehicle battery voltage is lowered for self-protection, the power to the device may be disconnected even in the Parking Mode disabling the recording.
4. The SD card should be formatted in the 2-week cycles and it should be managed. In case of long-term formatting without using it, an error may occur during recording and the image may not be saved or playback may not be possible.
5. The Micro SD card is a consumable. Use of an aged SD card may cause an error. Please replace on a regular basis.
6. When a vehicle accident occurred, turn off the power of the product immediately, remove the SD card and save the accident file on your PC. If the file is deleted due to the times away, the Company shall not take responsibility.

Warranty

1. The products are manufactured through strict quality control and inspection process.
2. The defect occurring in normal use of user within the warranty period will be repaired free of charge.
3. If the warranty period has passed, we will repair by a paid charge.
4. Please take this "Warranty" when you request the repair.
5. Please keep this "Warranty" because we will not be able to re-issue this warrante note.

Model Name	CLS-740	Product	Vehicle Drive Recorder / Rear Camera
Serial No.		Purchase date	YY MM DD
Customer's Name		TEL	
Address			
Purchase from		TEL	

■ **Warranty Details (Conditions)**

1. Free Service
   Product : 1 year from purchase date.
   Micro SD Card : 6 months from purchase date
   (if the purchase date is not confirmed, it should be counted from manufacture date of SD card)
2. Paid Service
   1) If the warranty period has passed.
   2) If failures caused by carelessness using (drop, flooding, shock, breakage, excessive operation)
   3) If failures caused by natural disasters (fire, lightning, flood damage, etc.
   4) Failures caused by the malfunction of power in use and connected equipment.

■ **Class A (commercial broadcasting communication equipment)**

This device is a Class A for electromagnetic compatibility registration for commercial use. So please pay attention to this point by the seller or the user.

This warranty will not be issued again, so please keep it with the instruction manual.

WINYCAM

www.winycam.com