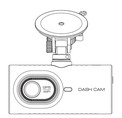
Owner's Manual

DC4213
64GB eMMC



CONTENTS

INTRODUCTION 01
IN THE BOX 02
SPECIFICATION 03
PRODUCT DIAGRAM 05
INSTALLATION 07
USING DASH CAM 10
PLAYING VIDEO FILES USING DASH CAM 13
PLAYING VIDEO FILES USING YOUR SMARTPHONE 15
PLAYING VIDEO FILES USING YOUR COMPUTER 21
SETUP 23
FAQ 29
NOTICE 30

■ INTRODUCTION

Thank you for purchasing this dashcam.
This user manual contains important information on how to operate your dash cam. Before using your dashcam, we recommend that you read through this manual to ensure correct usage.
To improve the performance of the product, the contents of this manual are subject to change without prior notice.

NOTE

1. The 64GB eMMC (Embedded Multi Media Card) is built in the dash cam for storage.
2. Please AURAYS connect with power when using. As it is built in Super Capacitor.

support@ombars.com

■ IN THE BOX

Check the box for each of the following items before installing the dash cam.

NOTE

To improve the performance of the product, the contents of this manual are subject to change without prior notice.

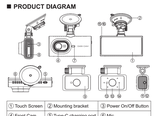
■ SPECIFICATION

Model Name	DC4213
Screen Size	4 Inch IPS Touch Screen
CPU/Storage Info	Builtin 64GB eMMC (It does not support micro SD card.)
Language	English / Français / Español / Deutsch / Italiano /简体中文 / 繁體中文 / 日本語
Video Format	MP4
Photo Format	JPG
Video Code	H.264 / H.265
Video Resolution	Front Cam: UHD 4K 2160P (3850x2160P) QHD 2K 1440P(2560x1440P) FHD 1080P (1920x1080P) Front Cam+Cabin or Rear Cam: 1440P + 1080P 1080P + 1080P Front Cam + Cabin Cam + Rear Cam: 1080P + 1080P + 1080P
G-sensor	Builtin 3-Axis Acceleration Sensor
Loop Recording	Support
Wi-Fi / Application	Support, Kacam Application
Parking Mode	Support (ONLY works when the dash cam is connected to 3A.lead Type-C Hardwire Kit)
GPS	Builtin * Windows 7 or higher and Mac OS X (10.15) or higher
Microphone	Builtin
Speaker	Builtin
Backup Battery	Builtin Super Capacitor
Power Interface	5V/3A/ 2.5A
Working Temperature	-20°C to 70°C (-4°F to 158°F)

NOTE

1. Please only use our car charger in this package.
2. Please AURAYS connect with power when using. As it is built in Super Capacitor.
3. The Cabin Camera area of the screen will hide all icons.
4. The 64GB eMMC(Embedded Multi Media Card) is built in the dash cam for storage.You can find the memory capacity information with USB cable provided in the box.

■ PRODUCT DIAGRAM



① Touch Screen	② Mounting bracket	③ Power On/Off Button
④ Front Cam	⑤ Type-C charging port	⑥ Mic
⑦ Speaker	⑧ Reset	⑨ Rear camera
⑩ Cabin camera	⑪ Rear cam connection port	
⑫ Cabin cam connection port		
⑬ Light Sensor	⑭ 6-Hidden IR Leds	
⑮ Blue LED-The Blue LED will flash on while the Dash Cam is recording.		
⑯ Red LED-The Red LED is permanently on while the Dash Cam is active.		

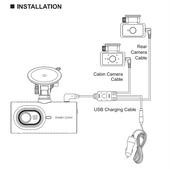
NOTE

There are 6 Hidden IR LEDs around the lens of the cabin cam. IR LEDs are automatically light and illuminate images in the dark. During night driving, it's completely dark inside the car, therefore IR LEDs will help you capture video in IR night vision details inside the cabin.

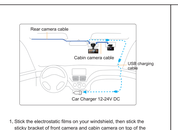
NOTE

1. All icons will be automatically hidden after 8 seconds if there is no operation.
2. Click on a blank area of the screen to manually hide all icons.
3. Swiping left or right on the screen can change camera picture in picture(PIP) view.

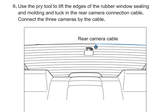
■ INSTALLATION



Install the front and cabin camera at the top of the front windshield. Install the rear camera at the top of the back windshield. Remove any foreign matter and clean and dry the windshield before installation.



1. Stick the electrostatic films on your windshield, then stick the sticky bracket of front camera and cabin camera on top of the electrostatic films.
2. Turn off the car engine.
3. Connect the charging cable to the Type-C USB port of the connection cable. Use the pry tool to tilt the edges of the windshield rubber seal and route the cable. Connect the rear camera to the dash cam by using connection cable.
4. Adjust the angle of the lens by the bracket of the front camera. We recommend pointing the lens slightly downwards (<10° below horizontal), so as to record video with a 6:4 road to background ratio. Adjust the angle of the lens by the bracket of the cabin camera.
5. Peel off the protective film from the double-sided tape and attach the rear camera to the rear windshield. Adjust the angle of the lens by the bracket of the rear camera.



6. Use the pry tool to lift the edges of the rubber window sealing and molding and tuck in the rear camera connection cable. Connect the three cameras by the cable.

7. Turn on the engine. The dashcam will power up and start recording. Video files are stored on the eMMC memory. When the eMMC memory fills up, the newest video files will start to replace the oldest video files (called loop recording) – so you will always have the most recent video files.

■ USING DASH CAM

The camera is designed to power up and record automatically when it receives power. Then saves the video record and turns off automatically when the car shuts off.

1. Auto Power ON/OFF:
① Plug car charger to cigarette lighter socket.
② When the car engine is on, dash cam will turn ON and start recording automatically.
When the car key is turned to LOCK position, Dash Cam automatically saves the recording and turns OFF.

2. Manual Power ON/OF
Manually Turn ON: Press the power button once, Manually Turn OFF: Press and hold the power button for at least 3 seconds.

NOTE

1. Do not remove or insert Cabin camera/Rear camera when the camera is powered on which may damage the camera. To improve stability, the dashcam reboots automatically once if it detects that there are different cameras connected.
2. Please AURAYS connect with power when using. As it is built in Super Capacitor.
3. Some truck/caran's cigarette outlet is always HOT, which means it provides constant power even when the car is turned off and locked. In this case, the dash cam will enter Parking Mode. This feature will not work. And if you leave the camera continuously recording when the car is turned off, then it will drain your car/truck's battery and you might not have enough power to start your car for next time. To Remedy this situation, you can do one of the following:
① Hardwire your dash cam to your car's fuse box with 3A.Lead Auto Trigger Hardwire Kit.
② Change the connection in the fuse box for your outlet to socket which only supplies power when car key is turned to ACC or ON position.

First Time Use

This menu is used to set your preferred Language, Time Zone and Date&Time.
This menu will appear when:
1. The Dash Cam is first turned on.
2. After the Dash Cam's firmware has been reset, by using the Default Settings option in the Setup Menu.

Time Zone Settings

The settings that influence the displayed time & date will be applied upon receiving a GPS connection.
Some examples of GMT time off sets are:
• GMT-7: Los Angeles • GMT-4: New York • GMT+10: Sydney
Please make sure to adjust time zone setting during standard vs. daylight savings time.
If you are unsure of your GMT off set please look up your city on

USA Time Zones	When Daylight Savings Ends Nov – March	When Daylight Savings Begins March – Nov
Hawaii	GMT (-10:00)	
Alaska	GMT (-9:00)	GMT (-8:00)
Pacific Time Zone	GMT (-8:00)	GMT (-7:00)
Mountain Time Zone	GMT (-7:00)	GMT (-6:00)
Central Time Zone	GMT (-6:00)	GMT (-5:00)
Eastern Time Zone	GMT (-5:00)	GMT (-4:00)

UK Time Zones	British Summer Time	British Winter Time
	GMT/UTC +1	GMT/UTC ±0

■ PLAYING VIDEO FILES USING DASH CAM

Touch the screen anywhere to access the on-screen Menu. And then press the to go to the Playback Mode find the File list.

Normal Videos: It's the video files that are saved in normal loop recording mode.
Locked Videos: It's the video files that dashcam locks when the car's shocked or manually locking..
Picture: It's the picture files that are taken.

■ PLAYING VIDEO FILES USING YOUR SMARTPHONE

Check real-time video using your smartphone

1. Search for the Kacam app in the Google Play Store or Apple App Store and install it on your smartphone.

App Store Google Play

2. Turn on WiFi of the dashcam Press the WiFi icon on screen menu to turn on the WiFi Mode.

3. Turn on WiFi of your phone and connect. Go to Phone's Settings >WiFi > Select WiFi of the dashcam. After it's connected to the WiFi, it will say "No Internet Connection" which was normal, Because dash cam WiFi is ONLY for video/photo transfer function, NOT made to broadcast footage over the cloud or internet, please ignore the prompt.
WiFi Name SSID: DC4213_Dashcam_******
Default PASSWORD: 1234567890

4. Open the Kacam App to tap >> Check Real-time Video<<. Now you can view in real-time the video currently being recorded by connecting your smartphone to the dashcam via WiFi Direct.

Download the video files into your smartphone

1. Go to Dashcam Preview interface, Please STOP recording first, then press the "File" to get Photo, Video, Emergency files.

2. Select the video files to download into your phone, then you can find these downloaded video files in APP original interface menu > Local Album. However, it will take a bit of time to download one video file.

NOTE

1. You can't operate the dash cam when your phone is connected to WiFi.
2. WiFi Direct lets you directly connect your smartphone to your dash cam via WiFi.
3. You can't operate the map with GPS data after you download the video to your smartphone.

The app won't show the live video on your phone, It only shows a picture of the back?

The cellular data will cause the live video not to be viewed, If the APP won't show the live video, please disable the "Kacam" cellular data of your phone. Sure that the Local Network of the "Kacam" is turned on.
① For Latest iOS System: Setting—Kacam—Click "Wireless Data"→ Select "WLAN".
② For Older iOS System: Setting—Kacam—Disable the "Cellular Data".

What is a WiFi Feature?

The WiFi feature has been designed so you can pair your dash camera wirelessly with your smartphone and access your recording instantly from the dash cam. Here you can view, download and share your videos easily with your friends and family. Just like how you would connect your Bluetooth speaker to your smartphone for playing music, this is the same way dash cameras use WiFi signal (instead of a Bluetooth) to pair your smartphone with DC4213.

What is the WiFi Range?

Please NOTE that just like your home WiFi network, you don't have WiFi signal outside your home.

Can I watch the videos around my car remotely?

DC4213 dash cam is NOT made to broadcast footage over the cloud or internet, It is NOT a cloud or an IP camera and it is NOT meant to do that, You can get live video and footage on dash cam's APP.

For iPhone:

If you get this pop up for your iPhone while using WiFi feature, make sure to tap on "Keep Trying WiFi", Other wise the camera will get disconnected from the WiFi and then you will have to forget the WiFi and then start to pair again to make it work again.

For Android phones:

When installing the Kacam APP, it will have two pop-up prompts, select "Allow using the APP" to allow Kacam to access this device's location, and select "Allow" to allow Kacam to access photos and media on your device.

There is one extra step when you install and use for the first time, Once you connect to DC4213 WiFi, it will say "No Internet", When you see this WiFi connection prompt, please click on the prompt or notification, You just have to tap on the pop up notification that will show up in few seconds to select that you still want to stay connected even though there is NO Internet, Once you select this OK, you are set to go.

B. Select from "My Computer" and find the memory card disk, choose the video file you want to play, you can drag and drop the file directly to the player, You can get the GPS information on the player.

File named "*****A• Front camera video file
File named "*****B • Rear camera video file
File named "*****C • Cabin camera video file

■ SETUP

Resolution
Allow to choose the video resolution and cameras.
Front Cam:
UHD 4K 2160P (3850x2160P)
QHD 2K 1440P(2560x1440P)
FHD 1080P (1920x1080P)
Front Cam+Cabin or Rear Cam:
1440P + 1080P
1080P + 1080P
Front Cam + Cabin Cam + Rear Cam:
1080P + 1080P + 1080P

PIP View
PIP Picture in Picture 3 Cameras, PIP Front & Rear, PIP Front & Cabin, Front & Cabin & Rear

Loop Recording — 1min(Default)/3mins/5mins
Here select the length (1/2/3 min) of each video clip for the loop recording. This function allows the dash cam to continuously record. Please notice: The dash cam will keep deleting the oldest files automatically when memory card gets full so that it can keep recording over and over.

WDR — On(Default)/Off
Wide Dynamic Range (WDR) processes images to ensure clear recordings in bright and dark light. This allows the Dash Cam to combine multiple images at different levels of brightness to create one superior image.

Parking Monitor
This function menu will be shown when connected to 3-lead Hardwire Kit. (Sold Separately) Options are:
—Off: The dash cam will also power off when the car powered off.
—Impact Detection Parking Mode: If select this, when you turn OFF the car's engine and turn the key to the lock position, the dashcam will also power off, but if someone hits your car, the dash cam will turn back ON automatically for 30 sec and saved in EMR folder of Micro SD card + dash cam power off.
—Motion Detection Parking Mode: If select this, when you turn OFF the car's engine and turn the key to the lock position, the dashcam will STOP the loop recording and go into the Motion Detection mode, The camera will stay ON and idle, but LCD will be off after 1 minute, While the front camera detects motion then it will record a 30-second video and saved in normal video folder, If someone hits your car, the dash cam will turn back ON automatically for 30 sec and to record a 1-minute video and saved in EMR folder of Micro SD card > go back to the motion detection mode,
—Time-Lapse Parking Mode: If select this, when you turn OFF the car's engine and turn the key to the lock position, the camera will STOP the loop recording and go into the Time-Lapse recording mode (1 frame per second) automatically, While Time-lapse recording is working, if someone hits your car, then the camera will switch back to normal recording mode and saved in EMR folder of Micro SD card + go on Time-lapse recording.
When you set your car ignition ON next time, it will stop the set parking mode and go into normal video mode automatically to start the continuous video recording.
Note:
3Lead Type-C Hardwire Kit is required to use this new feature.

Record Audio — On(Default)/Off
Turn On/Off the microphone for video recording.

Coding — H.264(Default)/H.265
H.265 is a video coding technology like. H.265 is more advanced than H.264 in several ways, The main difference is that HEVC allows for further reduced file size.
Note: Older devices may not support HEVC video playback. H.264 (AVC) can be chosen for compatibility with older desktop and mobile devices.

Video Stamp — Off/On(Default)
Turn On/Off the Time Stamp / GPS Stamp / Speed Stamp / shown on recorded files.

G-Sensor — Off/ High/ Middle(Default)/ Low
Gsensor is a 3-axis impact gravitational accelerometer, designed to detect physical and gravitational forces on the dash cam. Once the Gsensor detects forces exceeding the set threshold (e.g. impact force on the camera, the current video file will be locked as an emergency file so it won't be deleted by loop cycle function. The higher the G Sensor sensitivity is, the less force will be needed to trigger automatic file protection.

Speed Unit — KM/H(MPH)(default)
Choose between MPH and KM/H.

Timezone Setting
-UTC/GMT-12:00 to UTC/GMT +12:00
Here you can choose your desired or local time zone setting based on UTC/ GMT value. Please make sure to adjust time zone setting.

Daylight Saving
Turning on Daylight saving will advance the clock by one hour.

Date/Time
Adjust the time & date as required. Note: Time and date settings will be overwritten upon satellite connection.

Date Format
This feature allows you to select the date format.

WiFi — Off(default)/On
Turn On/Off the WiFi of the dash cam.
WiFi Name SSID: DC4213_Dashcam_******
Default PASSWORD: 1234567890
Note: Wi-Fi is only available for devices running Android 7.0 and higher, or iOS 9.0 and higher, You can't operate the dash cam when your phone is Connected to WiFi.

Screen Saver — Live Video Always ON/Screen OFF After 3 Min (Default)/Screen OFF After 5 Min
Live Video Always ON: It will make the screen always stay ON; Screen OFF After 3 Min: It will shut down the screen after 3AMn without any interaction, With the screen off, recording will continue as normal, Touch the display to revopen the screen.
Screen OFF After 5 Min: It will shut down the screen after 5AMn without any interaction, With the screen off, recording will continue as normal, Touch the display to revopen the screen.

Touch Tone — On(default)/Off
Turn On/Off the touch tone.

Volume — Off/Low(default)/Medium/High
Turn off or adjust the volume of the internal speaker.

Language — Multilingual
Select your preferred language.
Default: Follows your First Time Use selection.

Frequency — 50HZ/60HZ(Default)
According to the power supply specification used in your country.
60HZ-Used in USA, North America
50HZ-Used in Europe, most Asian Countries.

GPS Info
Check the satellite number / Longitude / Latitude / Speed.

Storage Info
eMMC (Embedded Multi Media Card) storage information can be found here.

Format
Format the built-in eMMC memory. This will delete all contents. Note: For stable performance, it is recommended that you format the eMMC memory every 1 month.
You should only do this after you've downloaded any file from the dash cam that you may want to keep.

Default Setting
Reset the Dash Cam to default settings. Your recordings will not be affected.

■ FAQ

Q1: Camera turns ON/OFF automatically?
Ensure that the output current can reach 5V/2.5A and use our car charger. And ensure that the cabin camera and the rear camera are connected correctly, It is to improve stability that the dashcam reboots automatically once if it detects that there are different cameras connected.

Q2: Video Image is blurred?
Remove the protective lens cover, clean the lens, make sure the windshield is clean and clear of grease, dirt, and debris.

Q3: Camera gets HOT?
It is normal for your camera to run slightly hot, Due to video being recorded at high speed, the dash cam may be hot during using. (No more than 158°F/70°C).

Q4: No power to my Dash Cam but it works upon my computer?
The cigarette power cable is not working, Inspect the fuse in the power cable, Unscrew the tip of the charger, Pull out and replace the power cable for storage which may have caused the fuse to blow.

Q5: The sound is not synchronised with video during playback?
The Codecs upon your PC may not be compatible or the latest standard, Please contact us at support@ombars.com to download GPS Player(For Windows or macOS).

Q6: Video Files cannot be played on my computer?
The video files from the Dash Cam are in MP4 format and may not be compatible with your PC if suitable playback software is not installed.

Q7: Video has no sound?
Ensure that "Record Audio" setting is turned ON within the Setup Menu, And ensure that "Timelapse Record" setting is turned OFF within the Setup Menu.

Q8: Photograph is blurred?
Make sure the Dash Cam is still while taking the photo, The Dash Cam is designed to recognise objects at around 2 meters, Objects closer than this are likely to become blurred.

Q9: I can not delete files on my Dash Cam?
Check to see if these files are "locked", If so please follow instructions to "unlock".

Q10: It does not support microSD card?
The 64GB eMMC (Embedded Multi Media Card) is built in the dash cam for storage, It does not require a microSD card.

■ NOTICE

This product complies with the radio interface requirements of the European Community.

This symbol means the product must not be discarded as household waste, and should be delivered to an appropriate and recycling helps protect natural resources, human health and the environment, For more information on disposal and recycling of this product, contact your local municipality, disposal service, or the shop where you bought this product.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
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.

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. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Product: Car Dashcam
Model: DC4213
Product Warranty: One-year Limited Warranty
Customer Support: support@ombars.com