DK-V2-4GBM
4G Car Black Box Camera and Video Recorder

Product composition

1 Dashcam Camera with Adhesive Mount **2** GPS Antenna
**3** Connection cable to vehicle control unit **4** Secondary rear cameras

Product Description
DK-V2-4GBM is a car video recorder with a built-in front camera and a second camera for rear view. It is ideal for mounting on the windshield with the included adhesive bracket and monitoring everything that happens around the vehicle. It is equipped with a 4G SIM slot that allows control via the web.

Dashcam wiring
The dashcam is supplied with a cable that allows it to be connected to the vehicle's control unit and to which the internal camera and GPS antenna are also connected.
The power cord has these 3 connectors
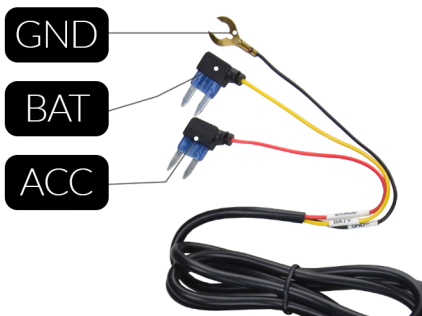
.
BAT – Yellow cable BAT+ connects to a fuse holder that always supplies power, even when the vehicle is off.
ACC – Red ACC wire connects to a fuse holder that supplies power only when the vehicle is running.
GND – Ground wire connects to a ground screw on the vehicle chassis

NOTE – You can use a tester connected between the fuse holder and a chassis ground screw to check for voltage.

You can connect the connector to an empty fuse holder, or use a splitter like this one that allows you to connect both the camera and the original fuse in one place
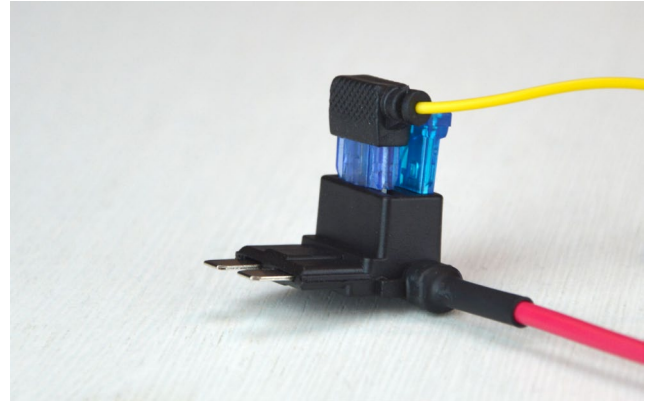
Connected in this way, the camera records continuously only when the vehicle is running. When the vehicle is off, the parking function can be enabled, which records if the vehicle is hit.

If you want to record continuously, even when parking, you can connect both the BAT and ACC connectors to a fuse holder that always has voltage present even when the ignition is off.
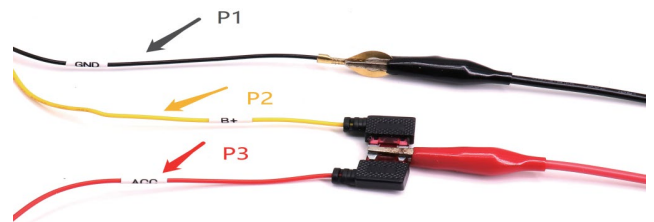
In this case, however, it is also a good idea to install a battery saver device, which disconnects the camera if the battery is running low, and an external switch on the ACC cable, to be able to turn off the camera in the event of long stops.

Dashcam Mounting
The camera should be positioned near the rearview mirror, so as to have a good frontal shot. The best position is towards the passenger side, as shown in the figure, so as not to obstruct the driver's view.

The bracket is equipped with a high-strength adhesive. It is advisable to clean the glass well and check the framing before gluing the bracket.
The lens can be rotated to match the inclination of the windshield and perfectly frame the road in front of the vehicle.

The rear camera and GPS antenna connect to the power cable to their connectors. The camera is positioned facing inside the passenger compartment if used as an interior view or rearward if used for rear view.

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The GPS antenna is equipped with a magnet so that it can be attached to the bodywork at any point in the passenger compartment, even hidden.

Example with installation of second internal camera
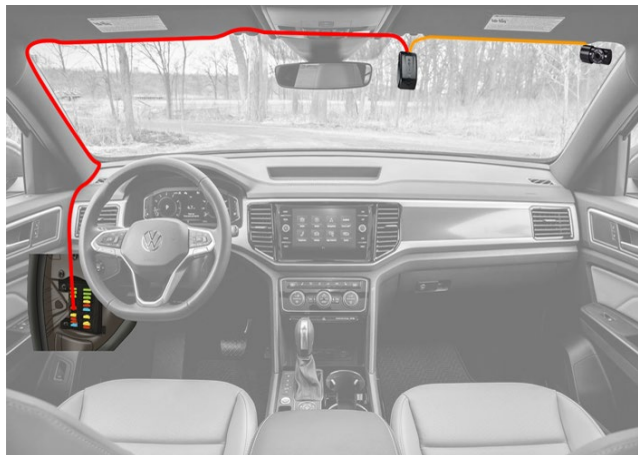
Example with installation of second internal (A) or external (B) rear camera

Turning on the camera and recording
The camera automatically turns on when it receives 12VDC power on the BAT and ACC terminals simultaneously. When the vehicle is turned off, the voltage on ACC is removed and the camera enters Parking mode.

Parking Mode
In Parking mode the camera remains dormant with negligible consumption. Recording starts if the vehicle is hit to document the incident. The camera also activates if a remote connection via the web is requested via the app.

Indication LED
The camera is equipped with an indicator LED that takes on different colors with the following meanings:
RED LED (recording) – Flashes if recording is not normal, e.g. SD card not inserted.

BLUE LED (4G) – Flashes when the 4G network is not connected, for example if the SIM is missing or there is no coverage.

GREEN LED (GPS) – Flashes when GPS out of coverage

GREEN LED (System OK) – Lights up steadily when all functions are normal

Insert the micro SD card
The first thing to do, if you want to make recordings, is to insert the micro SD card into the appropriate slot in the DVR (TF)

It is possible to use micro SD cards with capacity up to**128 GB in CLASS 10**or higher. SD card is not included in the package.

As an indication, consider that one minute of continuous recording at 1080P takes up approximately 90MB, so a 128GB SD card can hold approximately 24 hours of continuous recording.

Before inserting the SD card, it is advisable to format it with a computer. When inserting the SD card, pay attention to the drawing next to the slot that shows the insertion direction.

Once the SD card is inserted into the slot, the red LED that indicates abnormal recording stops emitting the red light and an SD card inserted sound message is emitted.

If the red LED continues to flash, replace the microSD card.

Insert 4G SIM
If you want to be able to control the dashcam via the WEB you need to insert a 4G sim card into the slot called SIM. The camera supports the MicroSIM format.
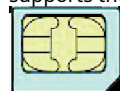
If you have a smaller SIM card, NanoSIM, you will need an adapter (not included). If you use a new SIM card, you must first insert it into a phone and disable the pin request at startup, otherwise the dashcam will not be able to use it.

Insert the card until you hear a click, possibly using a sharp object. You need to press gently until you hear a click, but do not push further to avoid the card getting stuck in the slot.

Once the SIM card is inserted, if there is a 4G data network from your provider, the flashing blue LED, which indicated the disconnected network, turns off and the message: Network OK is played. In order to use the functions via the Internet, you need to place the camera outdoors with good 4G coverage from your provider.

Normally no settings are needed to get a 4G connection, you can also manually set your provider's APN in the settings through the app, as explained below.

GPS connection
The camera is equipped with a GPS locator that is immediately operational as soon as the GPS antenna is connected to the camera cable with its pressure connector. The antenna must be positioned with double-sided tape in a convenient place in the car, as high as possible.
For full GPS functionality, the camera must be outdoors for good GPS signal reception. When the GPS connects successfully, the green LED stops flashing and a warning message is emitted.

Registration

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The camera starts recording automatically at startup in continuous mode and saves video files on the SD card in resolution 1920x1080 30 f/s, complete with audio. The files saved on the SD card are H264 videos in .TS format with a duration of 2 minutes each.

When the vehicle is stationary, in parking mode, the camera only records if the vehicle is hit.

Buttons
The camera is equipped with two buttons: OK and REC as well as a reset hole.

OK   OR RESET

O (REC) BUTTON - The camera records by itself when turned on, however it has an O (REC) button that you can press at any important moment to highlight and protect the footage recorded at that moment from being overwritten. Footage protected with this button is stored in a separate folder for easy identification. When this button is pressed, a real-time alert is also sent to the app, so this button also has an SOS/Panic function. Double-tapping this O button stops recording.

OK BUTTON – Confirm button. Long press to restore factory settings.

RESET BUTTON – Insert a thin pin into the reset hole and press and hold to restart the device if necessary

Recorded File Protection
Normally the camera records until the memory is full, then overwrites the recorded files starting from the oldest. It is possible to protect the file currently being recorded from being overwritten by pressing the O (REC) button on the camera. The camera also automatically protects recorded files from being overwritten following the intervention of the collision sensor.

Using the free Cloud DVR app
The camera is controlled with the free app**CLOUDDVR** which can be used to control the camera's framing and to manage recordings, both via local wifi connection and via the web.

Search and download the CLOUDDVR app for Android or iOS from Google Play or Apple Store.


Once you have installed the app, the first thing you need to do is create an account to log in.

Once you have created your account you need to connect the camera to your account.
The camera creates its own WiFi network by default that you can connect to with your phone. Open the WiFi network management on your phone and connect to the camera's WiFi network that you will find among the available networks with an acronym FX_--
The factory password of the camera's wifi network is:12345678
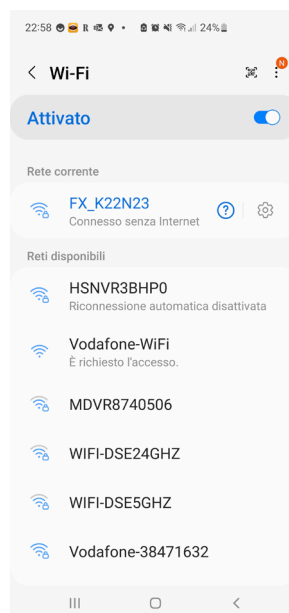
If you have not inserted the SIM cardin the camera, your phone will probably warn you that the wifi network does not have internet access: choose to keep the connection. The wifi network will appear as Connected Without Internet, as in the example above. You will be able to use the camera with the app locally.

If you have inserted the SIM card insteadand you have good 4G coverage, the camera's wifi network will be connected normally, with Internet access. If you have inserted the sim card and still get "Internet Not Available" check that the blue LED is off on the camera because if it flashes it means that the 4G network is not connected due to lack of coverage or problems with the sim. If the blue LED is off but you still get "Internet Not Available" when you connect to the camera's wifi then maintain the connection without Internet and then, with the app go into the camera settings and manually enter the APN address of your mobile provider.

NOTE: When your phone connects to the camera's wifi, the camera gets the correct time from your phone and synchronizes its internal clock.
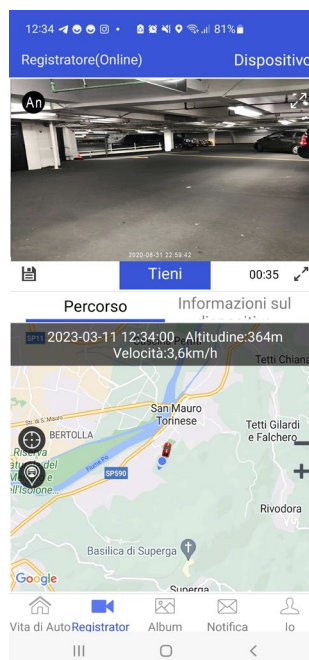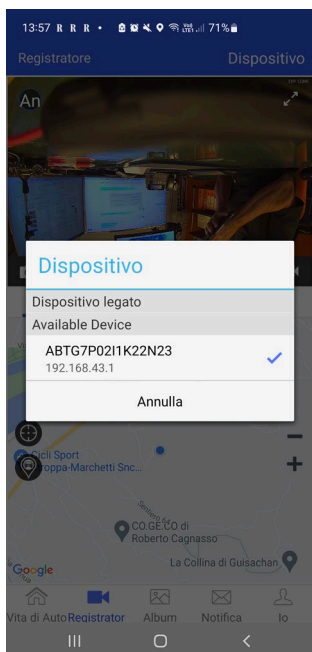
Launch CLOUDDVR app now
If you are connected to the camera's wifi and launch the ClouDVR app, the app will automatically detect the camera and present you with a pairing message asking for your consent to pair the camera to the app. The path is different depending on whether you have inserted the SIM or not as explained below
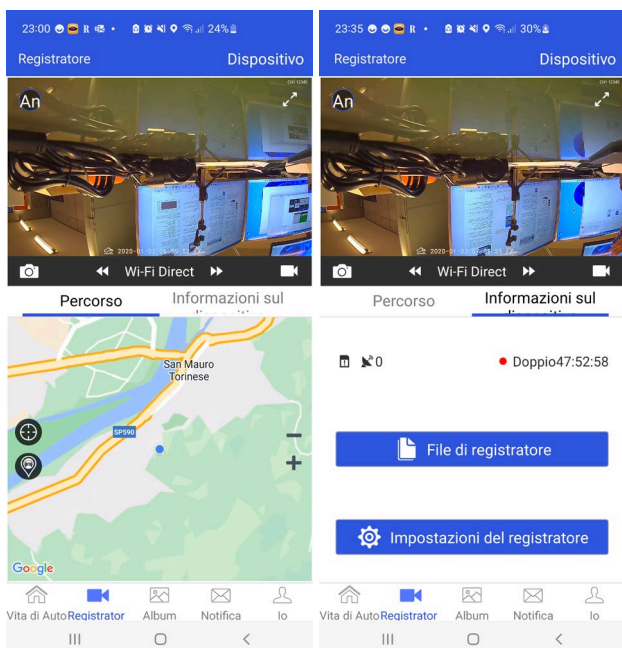
LOCAL PAIRING – If you have not inserted the SIM, pressing the pairing confirmation message will make the camera pair with the app for local control only. In this situation, you can only manage the camera when you connect locally to the camera's wifi network.

WEB PAIRING – If you inserted the SIM by pressing the pairing confirmation message, the camera will be paired with your app in the cloud server. Once the camera is paired in this way, you will be able to reach it via the Internet even if you disconnect from the camera's wifi network.

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A camera can connect to multiple app users, but only one active connection is possible at a time.

The app allows you to control the front and rear cameras. With the small An/P button on the top left you can select the camera. With the camera and video buttons located below the image you can take photos and record videos to save on your phone.

Only when accessing in 4G mode is the HOLD button available in the center of the screen. Press and hold this button for two-way communication using the speaker and microphone in the camera.
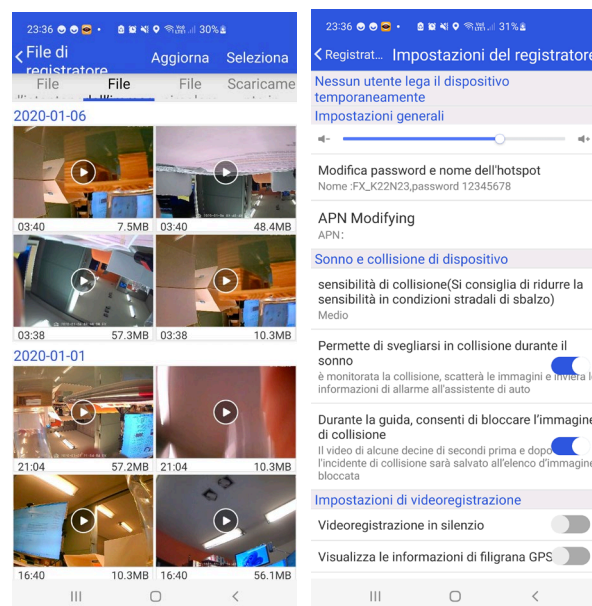

At the bottom of the screen you can see the GPS map or you can switch to a second page that allows you to view the recorded files and set some camera options

To avoid overloading the server, the real-time video connection via the web has a timing that automatically closes it in the absence of operator commands.

Configuring options

These are the operating options that you can configure in the menu

CHANGE PASSWORD – You can change the name and password of the camera's wifi network

COLLISION SENSITIVITY – You can adjust the sensitivity of the internal collision detector (G-Sensor) which is used by the camera to freeze images in the event of an accident or to detect a bump in parking surveillance.

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COLLISION WAKE UP – Enables the parking surveillance function. When the vehicle is turned off, the camera will go into Stand-By (Sleep) mode and will automatically activate if the vehicle is hit.
COLLISION IMAGE FREEZE – If you enable this function, the camera will protect the video before and after a collision from being overwritten to save the images of the accident.

SILENCE – Disables audio while recording GPS WATERMARK – When enabled, overlays GPS coordinates on the video.

REAR MIRROR – Mirrors the rear camera image.

RESTART VIDEO RECORDING – Restarts the DVR and applies any changes to the video recording
FORMAT SD CARD – Formats the SD card, erasing its contents.

FACTORY RESET – Restores factory settings.

Reproduction
You can access the recordings with the Recorder File button or with the ALBUM icon. In the free app this function is only possible in direct wifi connection with the phone near the camera and is not possible in remote 4G connection.

The recordings section is divided into 4 folders where they are saved respectively from left to right
- IMPORTANT FILES PROTECTED BY PRESSING THE CAMERA BUTTON ON THE CAMERA
- IMPORTANT FILES PROTECTED FROM OVERWRITING BY COLLISION SENSOR
- CONTINUOUS RECORDING FILES
- FILES DOWNLOADED TO YOUR PHONE

To download videos from the camera and save them to your phone, press and hold the file icon for a few seconds.

User
The user section is accessed with the IO button. It is possible to review the route stored by the GPS.

Using the CMSV6 Fleet Management App and Software

The camera you purchased includes a one-year subscription to the CMSV6 fleet management platform. CMSV6 is a very powerful platform with many advanced features that you can use instead of the free CloudDVR app. It is a paid software that you can consider if you have a fleet of vehicles and need to monitor many dashcams at the same time.

A few days after your purchase we will send you by email IP address, user name and password to access the platform. The first year of subscription is free, renewals can normally be purchased on our site. You can download the CMSV6 software in the software section of our site and the CMSV6 or CMSV7 app (new version) from the stores for iOS and Android.

You can also use CMSV6 with our dashcams simply with a browser, such as Google Chrome, by connecting to the IP address http://47.241.210.146/
For using CMSV6, refer to the specific manual.