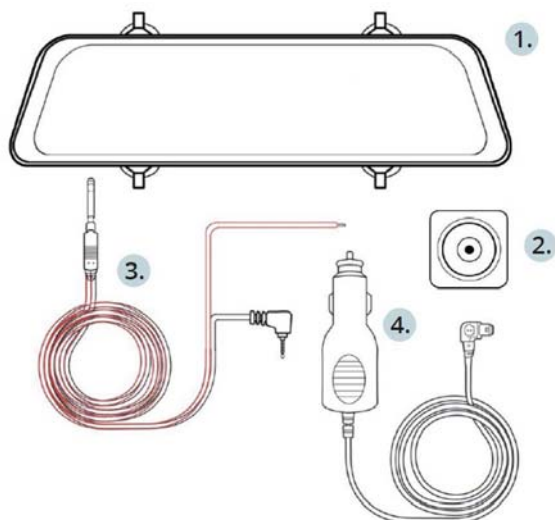


# DK-V2M

## Camera And video recorder black box for cars

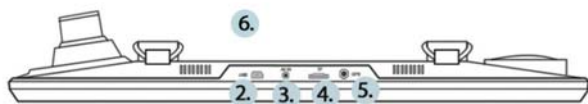
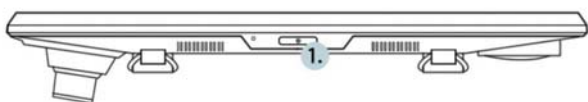
### Composition of the product



1. Dashcam camera in rear view mirror
2. Rear cameras
3. Connection cable for rear view camera
4. USB power cable from car lighter

### Product description

DK-V2M is a rearview mirror car video recorder, equipped with an integrated front camera and a second separate rear camera. It is designed to be mounted on top of the original rearview mirror with the special elastic fasteners that adapt to any vehicle.



1 - MONITOR ON AND OFF BUTTON 2 - MINIUSB CONNECTOR FOR POWER SUPPLY 3 - REAR CAMERA MINI JACK CONNECTOR 4 - MICROSD CARD SLOT (NOT INCLUDED)

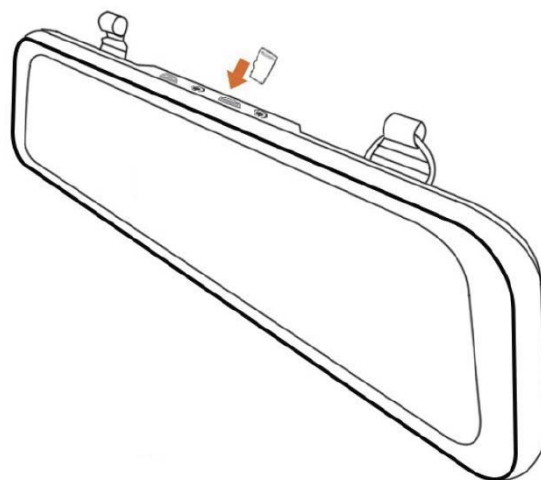
5 - CONNECTOR NOT USED 6 - RESET BUTTON (ON THE BACK)

### Insert the microSD 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 (4)

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

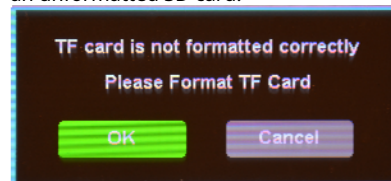
One hour of recording of both cameras takes up an average of 6 GB, so about 20 hours of continuous recording can be stored on a 128GB SD card.



### Format the microSD card

If you have inserted a new SD card you will need to format it before you can use it for recording. You can do this later by performing the first power up.

The camera alerts you with an on-screen message when it detects an unformatted SD card.

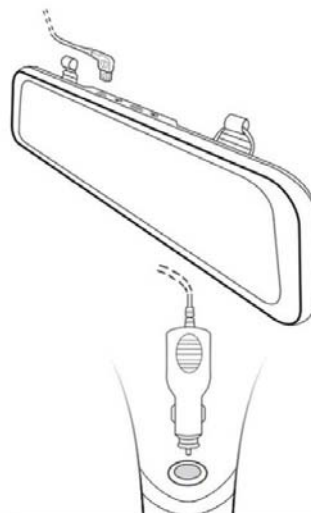


Agree to format by tapping the button on the touchscreen to start recording.

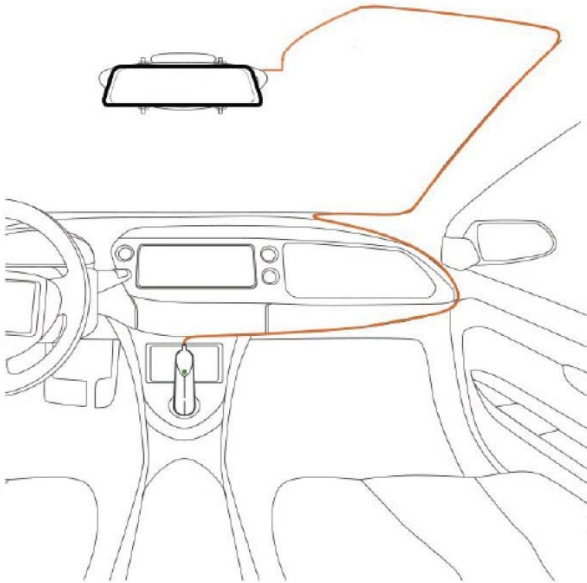
### Installation of the dashcam with cigarette lighter power supply

The dashcam is supplied with a cigarette lighter power cable that takes the 12VDC from the vehicle lighter and supplies 5VDC to the camera, with MiniUSB connector.

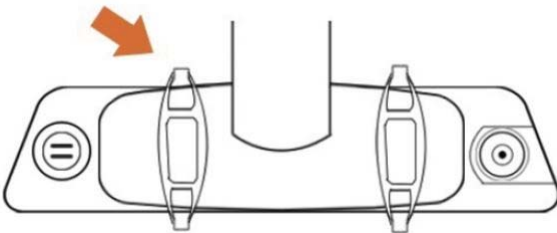
It is the fastest way to install the dashcam.



The lighter cable supplied with the camera has a cable that is long enough to be hidden along the rear window gasket and then reaches the lighter socket by passing under the dashboard.



The camera is placed over the rear view mirror of the car using the two rubber bands included



The front lens is mounted on an adjustable support that you can adapt to your vehicle to get a perfect shot of the road.



The function of the original rearview mirror is replaced by the dashcam so it is not possible to install this camera without connecting the external rear view camera.

Most vehicles only supply power to the cigarette lighter with the ignition on. In this case, the camera will turn on and off automatically together with the vehicle panel.

Some vehicles supply power to the lighter constantly, even when the vehicle is stationary. In this case

you will have to turn the dashcam on and off manually with the ON / OFF button (1).

### Installation of the dashcam with power supply from the fuse control unit

If you want to install the dashcam so that you do not have any visible cables inside the vehicle, you can purchase our installation kit separately, in the **MiniUSB version**, suitable for this dashcam,

The kit includes the cables and connectors to connect to the vehicle's fuse box. It also includes a 12V / 5VDC transformer with battery saver that is able to disconnect the dashcam when the vehicle's battery begins to run out, a very useful function if you use the dashcam with the vehicle stationary.

NOTE: This model supports cable connection + BAT (voltage always present) and also of the ACC cable (voltage only with ignition on). If you connect both cables, the camera will turn on and off automatically with the vehicle, but you can also activate it at will when the vehicle is stationary for surveillance while parked.

For the installation of the dashcam kit you can consult the specific installation kit manual.



### Installing the rear view camera

This dashcam is equipped with 2 cameras for front and rear shooting.

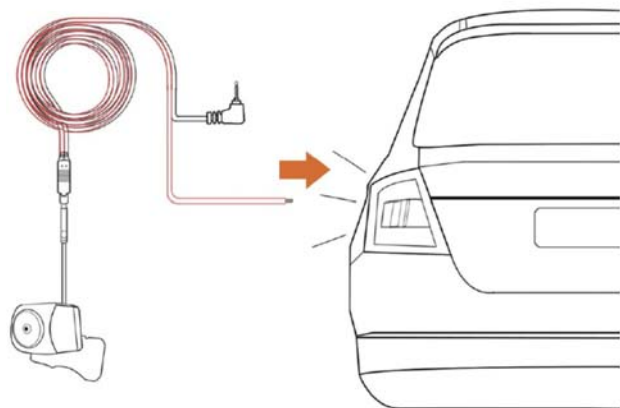
The front camera is built into the dashcam, while the rear camera is connected to the AV IN connector (3) with the cable provided and positioned on the rear of the vehicle.



You can arrange the rear camera inside the vehicle, so that it shoots through the rear glass (A), or mount the camera outside, above the license plate (B), preferably having it installed by a professional. The camera is perfectly waterproof and small in size.



The connection cable is included. On the camera side there is a red cable that you can connect to the positive that turns on the rear lights to automatically bring the rear camera to full screen when reverse gear is engaged. If you don't want this feature you can leave the red cable unused.



**Turn on the camera**

The camera turns on automatically when it receives power through the USB port and turns off in seconds if it fails. If you only supply power to the camera when the vehicle is running, it will turn on and off together with the vehicle.

If you supply power to the camera continuously you will instead have to turn the camera on and off manually by holding down the power button (1) for a few seconds.

This model also supports both types of power supplies when installed with the installation kit for the fuse box.



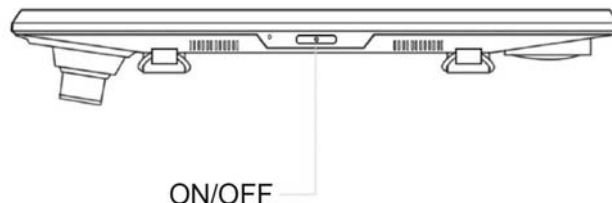
The camera has an internal battery which is used to allow the camera to stop safely when the power fails and also for operation in parking mode. The battery does not have

sufficient capacity to allow normal use without power.

Each time the camera is turned on, it automatically starts recording.

**Turn off the dashcam and monitor**

To turn off the camera completely, press and hold the ON / OFF button (1) for a few seconds. A sound pattern confirms that the device is turned off.



ATTENTION. If the GUARD / PARKING function is active, the camera restarts automatically when a shock is detected.

To turn off the screen only and keep the camera running, briefly press the ON / OFF button (1). Switching off the screen is recommended in surveillance during parking to conserve the battery. To turn the monitor back on, you can press the ON / OFF button again or touch the touchscreen.

**Touchscreen control**

This dashcam is equipped with a large 12" touchscreen that simulates the rear view mirror. The home screen shows the rear view camera in full screen by default and this will also be the setting you will keep while driving as the vehicle's original mirror is no longer usable.

In this way, the dashcam offers a better view of the normal rear-view mirror, not suffering from obstacles placed on the rear seat.

can **drag your finger on the screen to the right or left** to change the camera on screen or also to activate the dual view of the cameras



You can also **drag your finger up or down** to change the viewing angle up or down.

Touching the screen briefly displays the brightness control bar at the top of the screen



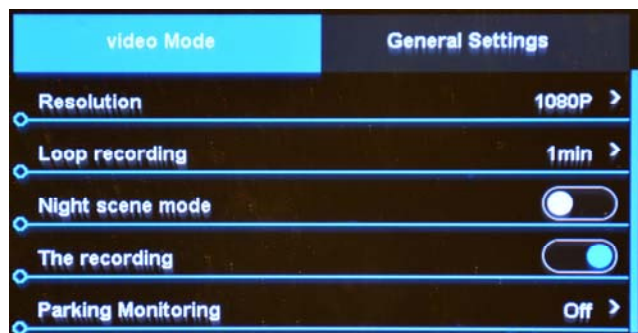
And the control menu bar at the bottom



- A - Activates and deactivates audio recording
- B - Changes the camera shown on the screen
- C - Accesses playback of recordings
- D - Activate and Stop recording
- E - Take an instant photo
- F - Protects the recording video from overwriting.
- G - Accesses the settings

### Video settings menu

Tap the gear icon to open the settings menu



**RESOLUTION** - Available only 1080P for the front camera and 720P for the rear  
**LOOP RECORDING** - Enables continuous recording so the camera, once the memory has run out, continues to record overwriting the oldest files. You can define the duration of the individual video files (1,3,5 minutes). Default: 1 m.

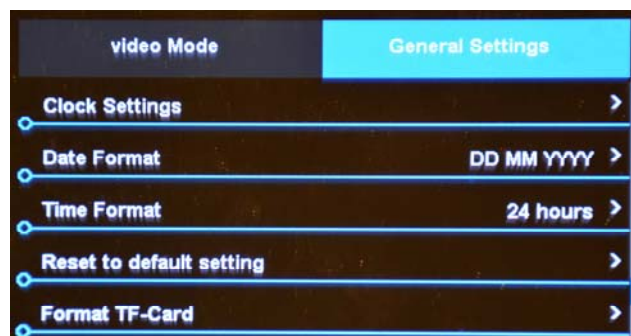
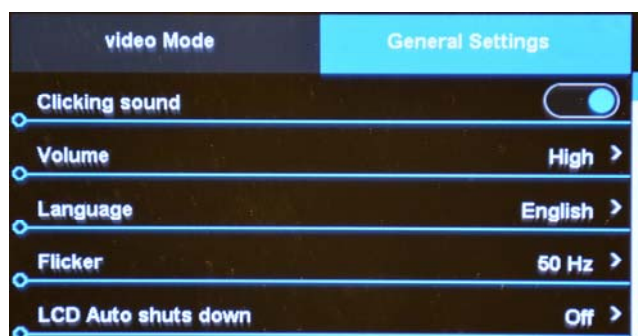
**NIGHT SCENE MODE** - This option improves low-light night vision, but increases video noise so it can degrade overall shooting quality

**THE RECORDING** - Activates or pauses the recording. **PARKING MONITORING** - This is a convenient function for monitoring your car while parking. If you activate this function, the camera does not turn off completely when you switch off the power or press the off button, but remains in PARKING mode with shock detection, consuming very little battery. If the vehicle is hit, the camera turns on, starting recording for 30 seconds and then returning to standby. Video files recorded in this mode are automatically protected from overwriting.

The shock detection works on battery so you can use it in parking even if your car does not supply current from the cigarette lighter socket with the ignition off.  
 The P icon tells you that the function is active during live viewing

### General settings menu

Tap the gear icon to open the settings menu



**CLICKING SOUND** - Activates the confirmation beep each time the touchscreen is touched. Default: ON  
**VOLUME** - Adjusts the volume of the loudspeaker **LANGUAGE** - Selects the language among which the Italian option is also available  
**FLICKER** - Choose the refresh rate of the screen at 50Hz or 60Hz. Default: 50Hz (Europe)  
**AUTO SHUTDOWN LCD** - Activates the automatic shutdown of the device after 1 or 3 minutes of inactivity. Default: OFF

**GRAVITY** - Here you enable the collision sensor (G-SENSOR) which detects impacts to the vehicle. This sensor is used to detect when the vehicle has been hit and automatically protect video files from overwriting. You can set the sensitivity Low, Medium and High. Default: OFF

**REAR MIRROR** - Enables reversing of the rear view camera image to simulate the rearview mirror. Default: OFF

**DISPLAY MODE PWRON** - Choose which camera to automatically show at startup (Front or Rear). Default: Rear

**CLOCK SETTING** - Set the date and time  
**DATE FORMAT** - Choose the date display format

**TIME FORMAT** - Choose the display format: 12 or 24 hours

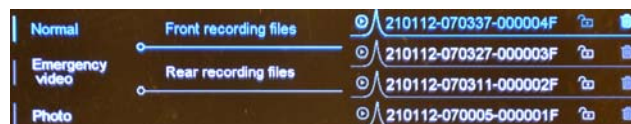
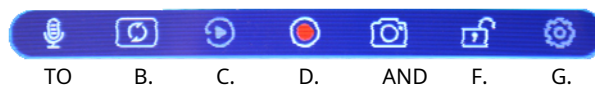
**RESET TO DEFAULT SETTING** - Restores the factory parameters

**FORMAT TF-CARD** - Format the camera's micro SDcard. This operation deletes all the data contained in the memory.

**FW VERSION** - Shows the product version

### Playback of movies

Press the C button to access playback of recorded video



The videos are divided into 3 folders: **NORMAL** - Normal continuous recordings **EMERGENCY VIDEO** - Recordings automatically due to the intervention of the collision sensor (G-Sensor) carried out

**PHOTO** - Photos taken with the PHOTO button  
 In each folder you can select the front (FRONT) or rear (REAR) camera.

Tap a file to play it. Tap the trash can to delete it. Tap the lock to protect the file from being overwritten.

### The protection of movies

When the memory is full, the camera continues to record overwriting the oldest files. Since the memory can hold a few hours of recording it is essential to protect important files from being overwritten so that they are not deleted.

To protect a file just touch the key with the padlock in the playback section. Protected video is identified by the closed padlock icon.

As we have already seen, in the live view there is also a padlock button F with which you can protect the current file, for example when an accident or a significant episode occurs.

The collision sensor (G-Sensor / Gravity) also automatically activates file protection in the event of an accident. Videos recorded in GUARD / PARKING mode are also automatically overwrite protected.

### Saving Videos to Computer

To save .TS video files on your computer you need to extract the microSD card and insert it into an SD card reader (not included). You will find the files divided into folders and you can copy the files to be saved to your PC.

You can play the files with normal video players like VLC.

### Main technical characteristics

Sensor	CMOS
Maximum resolution	Tel.1 FullHD 1080p (1920x1080) Tel.2 FullHD 720p (1280x720)
Frame rate	25 f / sec
Video format	Tel 1-2 TS (H264)
Overlay	Date time (not excludable)
Functions	Continuous recording Parking registration
Audio microphone	Incorporated
Audio speaker	No
IR illuminator	No
Video storage	MicroSDcard max 128GB About 20 hours of recording
Temperature operation	from - 20 ° + 70 ° C
Memory	MicroSD Class 10 or higher
Memory capacity	Up to 64GB
Monitor	12 "touchscreen
Diet	5VDC mini USB
Photo resolution	1920x1080 / 1280x720