

# DK-V3

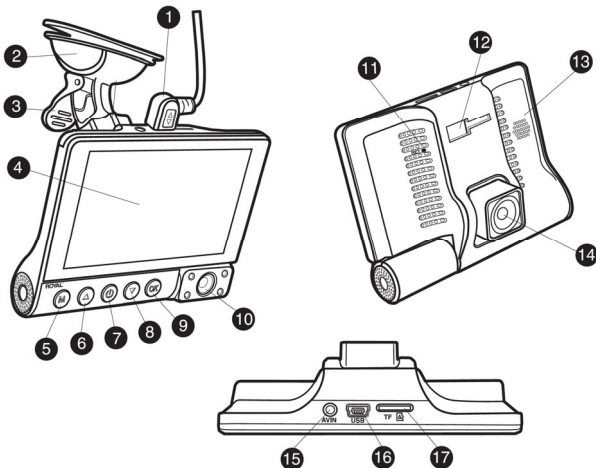
## Black box car camera and video recorder

### Composition of the product

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

### Product description

DK-V3 is a car video recorder equipped with a double integrated camera and a third rear camera. It is ideal to be mounted on the windshield with the included bracket and monitor everything that happens around the vehicle.



- 1 - 5VDC MINIUSB POWER SOCKET
- 2 - SUCTION CUP BRACKET
- 3 - SUCTION CUP LOCKING LEVER
- 4 - 4" LCD MONITOR
- 5 - MENU BUTTON
- 6 - UP BUTTON
- 7 - POWER BUTTON
- 8 - DOWN BUTTON
- 9 - OK BUTTON
- 10 - INDOOR ADJUSTABLE CAMERA WITH IR
- 11 - RESET BUTTON
- 12 - VACUUM BRACKET HOOKING SEAT
- 13 - SPEAKER
- 14 - ADJUSTABLE FRONT CAMERA
- 15 - REAR CAMERA MINI JACK CONNECTOR
- 16 - MINIUSB CONNECTOR FOR POWER SUPPLY
- 17 - MICROSD CARD SLOT (NOT INCLUDED)

### Pushbutton

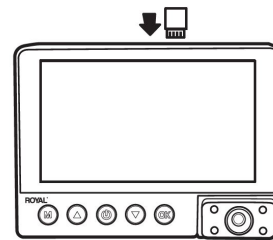
	<b>POWER</b> <ul style="list-style-type: none"> <li>Press and hold to turn the dashcam on and off</li> <li>Short press to turn the screen on and off only</li> </ul>
	<b>OK</b> <ul style="list-style-type: none"> <li>Confirm your choice in the menu</li> <li>Start / Stop recording</li> <li>Start / Stop video playback</li> </ul>
	<b>MENU</b> <ul style="list-style-type: none"> <li>Short press to show the main menu</li> </ul>

	<b>BELOW</b> <ul style="list-style-type: none"> <li>Move the selection down in the menu</li> </ul>
	<b>ON</b> <ul style="list-style-type: none"> <li>Move the selection up in the menu</li> <li>Change the screen display to the various full screen or PIP modes</li> </ul>

### Insert the microSD card

The first thing to do, if you want to make recordings, is to insert the micro SD card in the appropriate slot in the DVR (17)

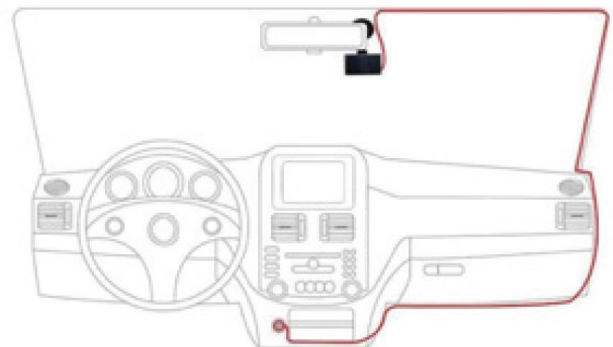
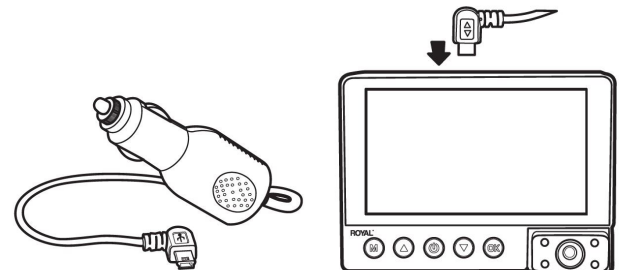
It is possible to use micro SD cards with capacities up to 32GB in CLASS 10 or higher. The SD card is not included in the package.



### 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 lighter and supplies 5VDC to the camera, with MiniUSB connector.

It is the fastest way to install the dashcam.



The camera should be positioned near the rear view mirror, in order to have a good front view. The best position is towards the passenger side, as shown, so as not to obstruct the driver's view.

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 front ON / OFF button.

The supplied lighter cable can easily be hidden along the edge of the rear window, passing under the gaskets.

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

If you want to install the dashcam so as not to have visible cables inside the vehicle, you can separately purchase our installation kit, 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 starts to run out, a very useful function if you use the dashcam with the vehicle stationary.

NOTE: This model only requires the connection of the + BAT and GND cable as the ACC cable is not supported.

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 3 cameras for front, internal and rear shooting.

The first two cameras are built into the dashcam, while the rear camera is connected to the AV IN connector (15) 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 front power button (7) for a few seconds.



The camera has an internal battery which is used to allow the camera to stop safely when the power fails and also to operate in parking mode. The battery does not have sufficient capacity to allow normal use without power. If you turn on the camera and see the battery icon appear at the bottom right of the screen, this means that there is no power and the camera is only running on its own internal battery.

### Turn off the dashcam and monitor

To turn off the camera completely, press and hold the ON / OFF button (7) for a few seconds.

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 (7)

### Format the microSD card

If you have inserted a new SD card you must format it before you can use it for recording. The camera alerts you with a message.

To format the memory, tap the HOME button



Then the SETTINGS button



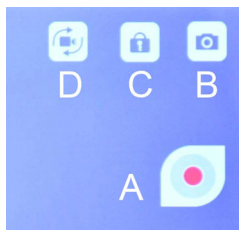
And finally the FORMAT button



Agree to format to start recording.

### Short commands

The home screen shows the front camera in full screen and the indoor camera in PIP mode. There are some quick control buttons on the touchscreen



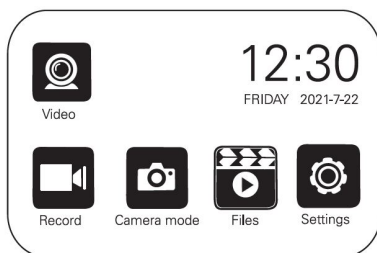
- A - Start and Stop recording (the dashcam still starts recording automatically at startup)
- B - Opens PHOTO mode for taking pictures
- C - Protect the current video file from being overwritten. Press to prevent an important video from being deleted.
- D - Change the display mode of cameras 1,2, and 3



- A - Cancel, go back to the previous page
- B - Opens the HOME menu for camera management
- C - Opens the SETTINGS menu

**Camera management home menu**

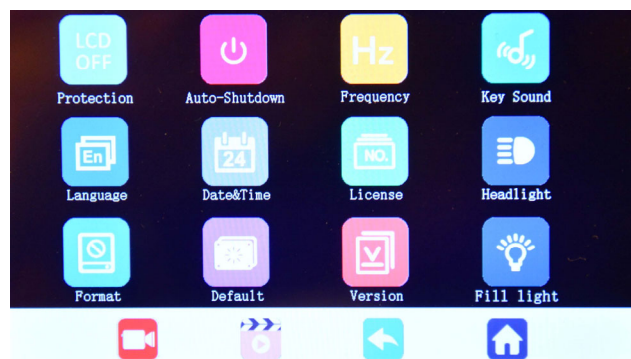
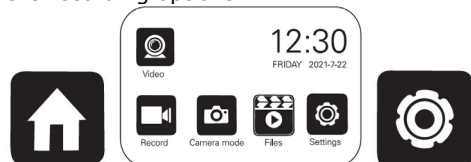
The home button at the bottom and in the center of the screen opens the camera management menu



- VIDEO - Start and stop recording
- RECORD - Switch to camera view in VIDEO mode to record video
- CAMERA MODE - Switches to view cameras in PHOTO mode to take pictures
- FILES - Switch to PLAYBACK mode where you can browse and play the files stored in the memory
- SETTING - Sets the recording modes which is described below

**Home menu - Settings**

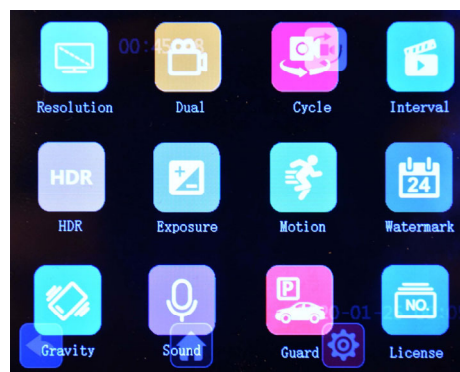
The settings button on the Home menu allows you to set the recording options



- PROTECTION - Activates automatic screen shutdown after 30, 60 or 120 seconds of inactivity. Note that this feature only turns off the screen while the dashcam continues to run. It is very important to enable this function if you keep the camera running while parking to reduce consumption. Default: OFF
- AUTO SHUTDOWN - Enables automatic shutdown of the device after 3, 5 or 10 minutes of inactivity. Default: OFF
- FREQUENCY - Choose the screen refresh rate at 50Hz or 60Hz. Default: 50Hz (Europe)
- KEY SOUND - Activates the confirmation beep each time the touchscreen is touched. Default: ON
- LANGUAGE - English only available
- DATE & TIME - Set the date and time
- LICENSE - Function not available
- HEADLIGHT - Function to reduce the glare caused by the headlights of the car
- FORMAT - Format the camera's micro SDcard making it usable for recording. This operation deletes all the data contained in the memory.
- DEFAULT - Restore factory settings
- VERSION - Shows the product version
- FILL LIGHT - This option improves low-light night vision, but increases video noise so it can degrade overall shooting quality.

**SETTINGS menu**

Press button C to access the settings menu



- RESOLUTION - Set the recording resolution 1296P, 720P, 480P. Normally the maximum resolution is maintained 1296P corresponding to approximately FullHD, but you can lower the resolution if you want to increase the video archive capacity. Default: 1296P
- DUAL - If enabled, the dashcam records all 3 cameras: front, internal and rear. If disabled, the dashcam records only the front camera. Default: ON.
- CYCLE - 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.

**INTERVAL** - This is a function that allows you to increase the video archive capacity by introducing a delay between frames of up to 300 ms. For better video quality it is advisable to keep this option OFF. Default: OFF

**HDR** - High Dynamic Range. It is a function that improves the viewing of scenes with different levels of brightness and light-dark, which can be useful in some types of shooting. Default: OFF

**EXPOSURE** - Allows you to correct the brightness of the image with steps -3, -2, -1,0, + 1, + 2, + 3. Default: 0

**MOTION** - If you enable this function the dashcam will record only in the presence of movements in the image. The running man icon signals that the function has been activated. This function is very useful if you keep the recording active while parking in areas with little traffic, to record only in case someone approaches the vehicle. Video files recorded in this mode are 20 seconds long and are not automatically overwritten protected.

Motion detection is performed only by the front camera but activates the recording of all cameras. Default: OFF

**WATERMARK** - If you enable this function, the date and time are imprinted on the movies. Default: ON

**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

**SOUND** - Here the recording of the vehicle's internal audio is enabled. Default: ON

**GUARD (PARKING)** - This is a convenient function to guard 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.

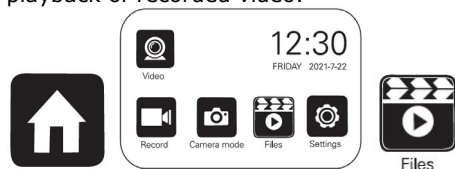
The shock detection works on battery so you can use it in parking even if your car does not supply current from the cigarette lighter socket with the ignition off.

The video surveillance camera icon tells you that the function is active during live viewing

**LICENSE** - Function not supported

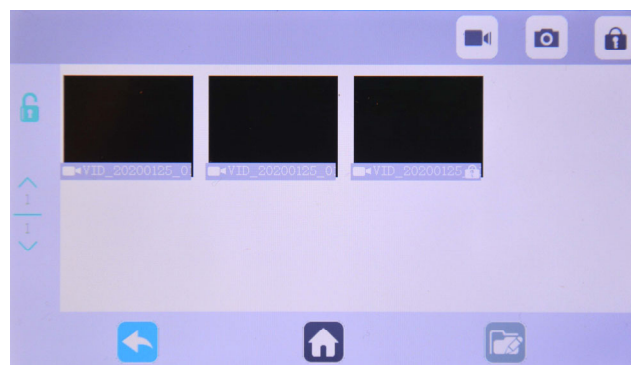
### Playback of movies

From the HOME Menu, press the FILES button to access playback of recorded video.



The videos are divided into folders: 1 tel. front, 2 tel. internal, 3 tel. rear.

You can play movies, delete them with the trash button and protect them from overwriting with the lock button. At the top right there are three buttons to view videos, photos or only protected files.



### 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 you can simply play it and press the key with the lock. Protected video is identified by the closed padlock icon. In the above window, for example, only the third file is overwrite protected.

As we have already seen, in the live view there is also a lock button C 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.

### Computer connection via USB

You can connect your dashcam to computer with a USB cable (not included). You can choose 3 connection modes directly on the dashcam screen:

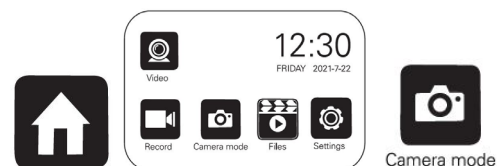
**MEMORY MODE** - Use this mode to explore memory with explorer and copy files to PC. It is a great way to save video files to a computer without having to take out the memory card.

**CAMERA MODE** - Use this mode to use the dashcam as a webcam for your computer.

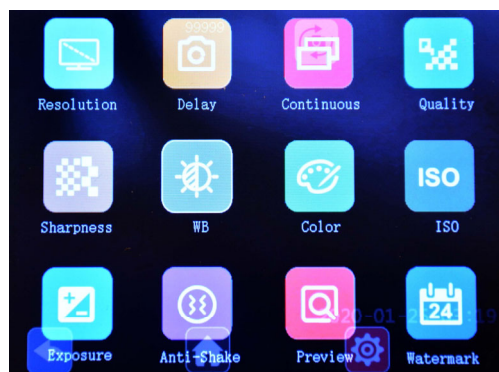
**RECORDER MODE** - Use this mode to use the dashcam normally and use the PC only as a power source.

### PHOTO mode

The camera has a photo mode with which you can take high quality photos. You can access photo mode with the B button in live view or from the HOME menu



In the PHOTO mode there is a button to take and a button to select the camera to use. There is also a settings button



**RESOLUTION** - Set the photo resolution from VGA up to 10MP

**DELAY** - Sets a shutter delay of 2, 5 or 10 seconds. Default: OFF

**CONTINUOUS** - Enable automatic photo overwriting. Default: ON

**QUALITY** - Choose the compression level of the files by setting the Good, Standard, Low quality. Default: Good

**SHARPNESS** - Sets the contrast

**WB** - Sets the white balance according to the type of lighting

**COLOR** - Sets the photo in color or B&W

**ISO** - Sets the sensitivity of the shot. The default auto option is recommended

**EXPOSURE** - Allows you to correct the brightness of the image with steps -3, -2, -1,0, + 1, + 2, + 3. Default: 0

**ANTI-SHAKE** - Activates the automatic stabilization function. Default: OFF

**PREVIEW** - Allows you to enable a preview before shooting for 2 or 5 seconds. Default: OFF

**WATERMARK** - If you enable this function, the date and time are imprinted on the photos. Default: ON

### Main technical characteristics

Sensor	CMOS GC1064
Maximum resolution	Tel.1 FullHD 1080p (1920x1080) Tel. 2 VGA (640x480) Tel. 3 VGA (640x480)
Frame rate	25 f / sec
Video format	Tel 1-2 MOV (H264) Tel. 3 AVI (MJPEG)
Overlay	Date time (excludable)
Functions	Continuous recording Motion recording Parking registration
Audio microphone	Incorporated
Audio speaker	Incorporated
IR illuminator	Camera 2 - 4 LEDs
Video storage	MicroSDcard max 32GB About 2 hours of recording
Operating temperature	-20 ° + 70 ° C
Memory	MicroSD Class 10 or higher
Memory capacity	Up to 64GB
Monitor	4 "touchscreen
Diet	5VDC mini USB
Photo resolution	Up to 10MP