



CARDVRHD

User Manual



With rising reports of road-rage and crowded roads getting more crowded, the CARDVRHD provides a simple solution to protect yourself and your family from the legal repercussions of other careless road users. Featuring motion detection, and continuous recording, you can be sure that the CARDVRHD will capture those brief moments that could save you lots of time and money later. Captures any dialogue that may take place outside of camera view using its built-in microphone.



Please not: Due to extreme temperatures the inside of cars can reach, we do not recommend that you leave the CARDVRHD mounted during hot days.

1920x1080
FULL HD

MICRO
SD CARD
SLOT
UP TO 32GB

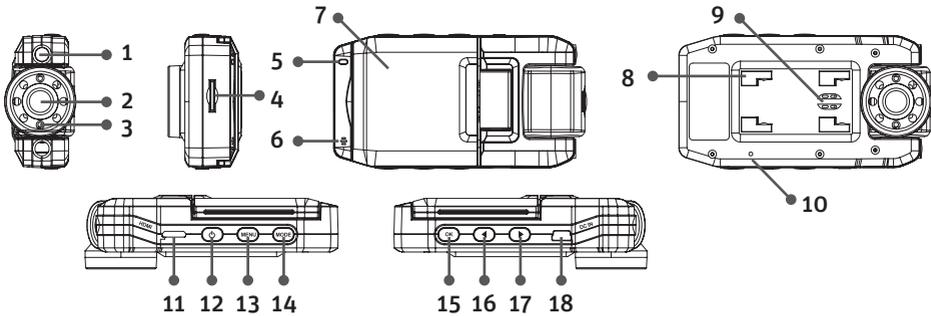
MOTION
DETECTION

IR LEDS

CONTINUOUS
RECORDING

MICROPHONE
& SPEAKER

Getting to know your CARDVRHD



- | | | |
|------------------------|-------------------------|------------------------|
| 1. LED light | 7. LCD display | 13. Menu button |
| 2. Lens | 8. Bracket | 14. Mode button |
| 3. IR night vision LED | 9. Speaker | 15. OK button |
| 4. Micro SD slot | 10. Reset button | 16. Up button |
| 5. Power indicator | 11. Mini HDMI connector | 17. Down button |
| 6. Microphone | 12. Power button | 18. Mini USB interface |

Before you begin



Make sure you have inserted a MicroSD card in the back slot (see no.4 above. MicroSD Card not included). Your CARDVRHD will support MicroSD cards up to 32GB. Once you turn on your CARDVRHD on, it will automatically start in Video mode and immediately begin recording.

To enter the menu, you will have to stop the active recording by pressing the **OK button and then press the **MENU** key.**

You navigate the CARDVRHD using the **◀** and **▶** keys to move through different options and the **OK** key to accept your changes.

Change Date/Time Settings

You will first want to change your date and time settings. In any mode, press the **MENU** key twice to enter the SETUP menu. Use the **▶** key to scroll down to the Date/Time menu and press **OK**. Use the **◀** or **▶** keys to select the year and press the **OK** key to move on to the month, day, and time fields. Press the **MENU** key to accept your changes and exit.

Charging

You can charge the CARDVRHD using the included car charger or on any computer using the included mini-USB to USB lead. The mini-USB port allows for both sync and charge simultaneously.

Copying Files

To copy files from the CARDVRHD on to a PC, simply connect it to your PC using the included USB lead. When prompted on the CARDVRHD, choose the **Mass Storage** option. The CARDVRHD will appear as a removable drive. All recordings and image stills will appear under a date stamped subfolder under a main DCIM folder.

Main Setup

To enter the Setup menu, in any mode, press the **MENU** key twice. (If there is an active recording, you will have to stop it first. See 'Before You Begin')

Date/Time

Change the date and time

Auto Power Off

If there is no activity, the CARDVRHD can turn itself after a specified time

Off | 1 Minute | 3 Minutes

Beep Sound

Off | On

Language

Choose from 11 languages including English / French / Spanish / Portuguese / German / Italian and more

Screensavers

Specify the amount of time before the screensaver kicks in

1 Minute | 3 Minutes | 5 Minutes | Off

Frequency

Choose the display refresh rate

50 Hz / 60 Hz

Rotate

Adjust this setting based on your mounting options. This will affect whether your recording is upside down!

On (for dash mounting. Screen is facing **towards** the main unit)

Off (for windshield mounting. Screen is facing **away** from the main unit)

Format

Use with caution as this will format your MicroSD card and will delete everything on it

Cancel | OK

Default Setting

Reset to factory defaults. This will erase all personal settings and allow you to start from fresh.

Version

Displays the software version information

Operating Modes

The CARDVRHD operates in three modes.

1. **Video**
2. **Still**
3. **Playback**

Press the **MODE** key to toggle between each mode.

Video Mode

This is the default mode. Every time you start the CARDVRHD, this is the mode it will boot up in.

Video Mode Menu Options

Resolution

Choose your recording resolution. Please note, higher resolution gives you more detail, but also increases file size which means your MicroSD card will hold less recordings.

1080FHD 1920x1080 | 1080P 1440x1080 | 720P 1280x720
WVGA 848x720 | VGA 640x480

Please note: You will need a Class 6 or above MicroSD for 1080p recordings.

Cyclic Record

The CARDVRHD will create a new file after every X minutes based on the following options. A shorter time frame means smaller file sizes which makes it easy to email or upload recordings. When your MicroSD card becomes full, the CARDVRHD will begin overwriting the oldest files first.

Off | 3 Minutes | 5 Minutes | 10 Minutes

Exposure

You can compensate for bright or dark conditions by increasing or decreasing the EV value

+2/3 | +1/3 | +0.0 | -1/3 | -2/3 | -1.0 | -4/3 | -5/3 | -2.0

Motion Detection

Turning this on will allow for the CARDVRHD to automatically start recording when there is motion and stop recording when there isn't. This is helpful to avoid unnecessary recordings when stopped for extended period of times, including traffic lights.

Off | On

Audio

The CARDVRHD has a built-in microphone which is able to record audio alongside video. Turn this off if you do not wish to record audio.

Off | On

Date Stamp

This will permanently embed an on screen date and time stamp to your recordings which makes it easy to identify the exact date and time the recording was made.

Off | On

Still Mode

Still Mode allows you take still photos and use the CARDVRHD like a digital camera. To enter Still Mode, ensure recording has stopped and press the **MENU** key once.

Still Mode Menu Options

Resolution

Choose your image resolution

12M 4032x3024 | 10M 3648x2736 | 8M 3264x2448 | 5M 2592x1944
3M 2048x1536 | 2MHD 1920x1080 | VGA 640x480 | 1.3M 1280x960

White Balance

Change the white balance to match the current lighting conditions

Auto | Daylight | Cloudy | Tungsten | Fluorescent

Exposure

You can compensate for bright or dark conditions by increasing or decreasing the EV value

+2.0 | +5/3 | +4/3 | +1 | +2/3 | +1/3 | +0.0 | -1/3 | -2/3 | -1.0 | -4/3 | -5/3 | -2.0

Anti-Shaking

Aims to reduce blurry photos.

Off | On

Date Stamp

This will permanently embed an on screen date or date and time stamp to your photos which makes it easy to identify the exact date and time the photo was taken.

Off | Date | Date/Time

Playback Mode

To enter playback mode, make sure there is no on going recording and press the **MENU** button two times after you have turned on the CARDVRHD.

Here you can watch all recorded videos and photos. Use the **◀** and **▶** keys to browse through the collection. Press **OK** to playback a video file. To delete a file or files, press the **MENU** button.

Playback Mode Menu Options

Delete

Delete Current? | Delete all?

Protect

You can prevent accidentally deleting a file, or files by locking them. This will make sure the file is preserved if Delete All is chosen above.

Lock One | Unlock One | Lock All | Unlock All

Slideshow

You can activate the slideshow feature so files automatically start playing after one another.

2 Seconds | 5 Seconds | 8 Seconds

Other Features

Digital Zoom

You can zoom in up to a factor of 4 while in Video or Still mode by using the ◀ or ▶ keys

LED light

You can turn on the bright LEDs whilst in Video or Still mode by pressing the **POWER** key.

Webcam Mode

You can use your CARDVRHD as a web camera by connecting it to your PC. Once you do, you will be presented with two options:

- Mass Storage
- PC Camera

Choose PC Camera and once the appropriate drivers are installed, you can use the CARDVRHD with your favourite IM software.

HDMI Mode

You can connect the CARDVRHD and watch recorded footage and image stills on a HD TV by connecting it using a mini-HDMI to HDMI lead (not supplied). The CARDVRHD automatically switches to Playback Mode when connected via HDMI. Refer to your TV's manual on how to switch to the correct HDMI input.

Specifications

Image sensor	1/4" Colour CMOS
Camera Angle	120°
Minimum operating brightness	1 Lux
Display	2.4 inch TFT
Battery	Rechargeable built-in Li-ion 3.7V / 300mA
Battery operating time	>1 Hour
Photo size	12MP / 8MP / 5MP / 3MP / 2MP / 1.3MP / VGA
Video resolution	1920×1080P / 1440×1080P / 1280×720P / WVGA / VGA
Video format	AVI (30 FPS)
Video Lengths	3mins / 5mins / 10mins
Operating Temperature	-10 °C ~ 60 °C
Storage	MicroSD card up to 32 GB (not included)