Automotive Driving Recorder

ADR810

EN Automotive Driving Recorder

中文 车载行车记录仪

PHILIPS

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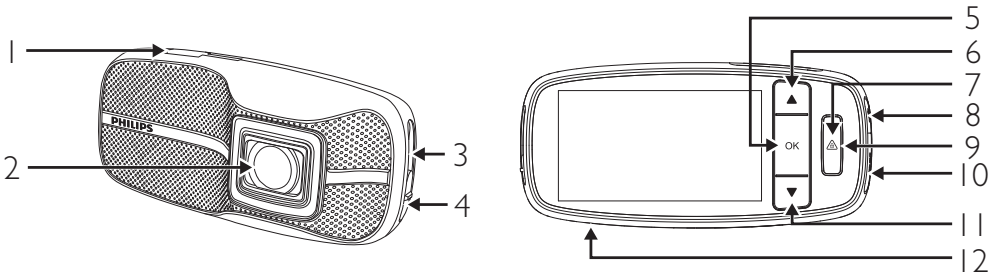
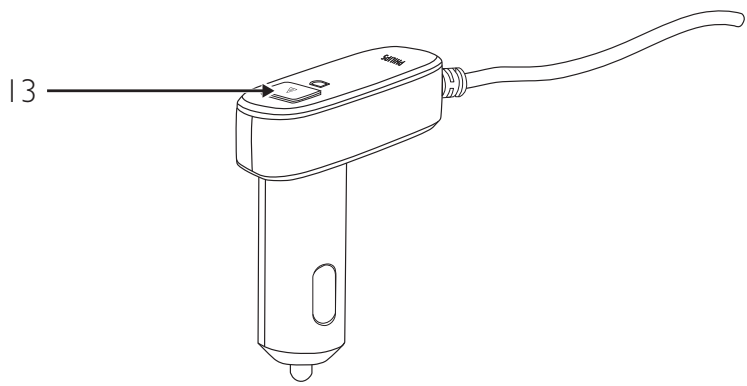
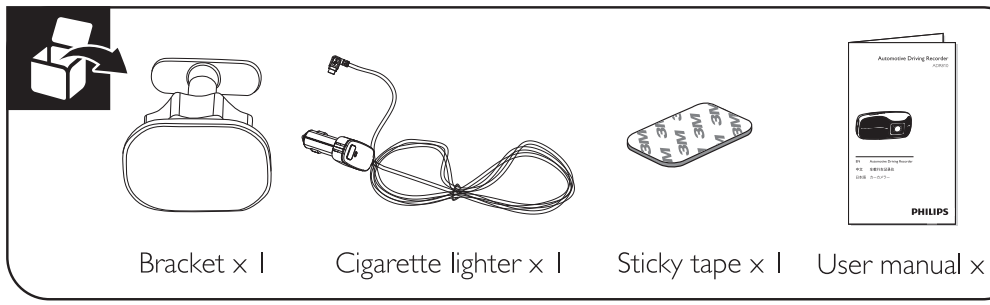
1 Product Overview





1. Bracket Holder
2. Lens
3. Micro SD card Slot
4. Slide Switch (ON/OFF)
5. Enter Button (OK)
6. Up Button/REC (▲)
7. EasyCapture Button/ Return(⏏)
8. Micro USB Port
9. 3-color LED Indicator
10. HDMI Port
11. Down Button/Voice Recording On/Off (▼)
12. Speaker
13. Cigarette Lighter with EasyCapture Button

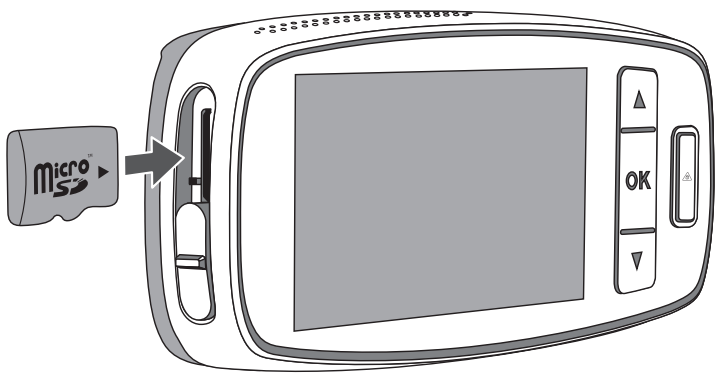


Bracket x 1 | Cigarette lighter x 1 | Sticky tape x 1 | User manual x1

2 Quick Start

2.1 Insert the Memory Card

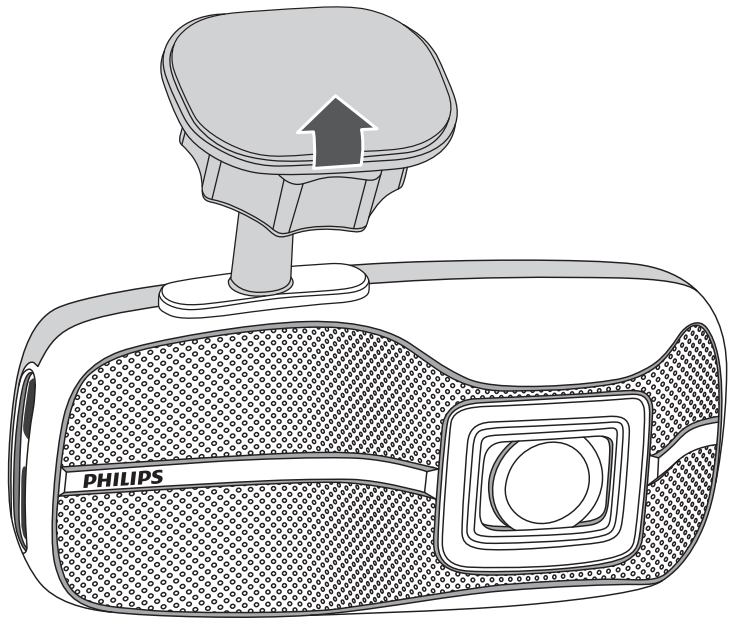
1. Insert the memory card with the gold contacts facing to the front of the device.
2. Push the memory card until it clicks into place, and slide the switch to ON.



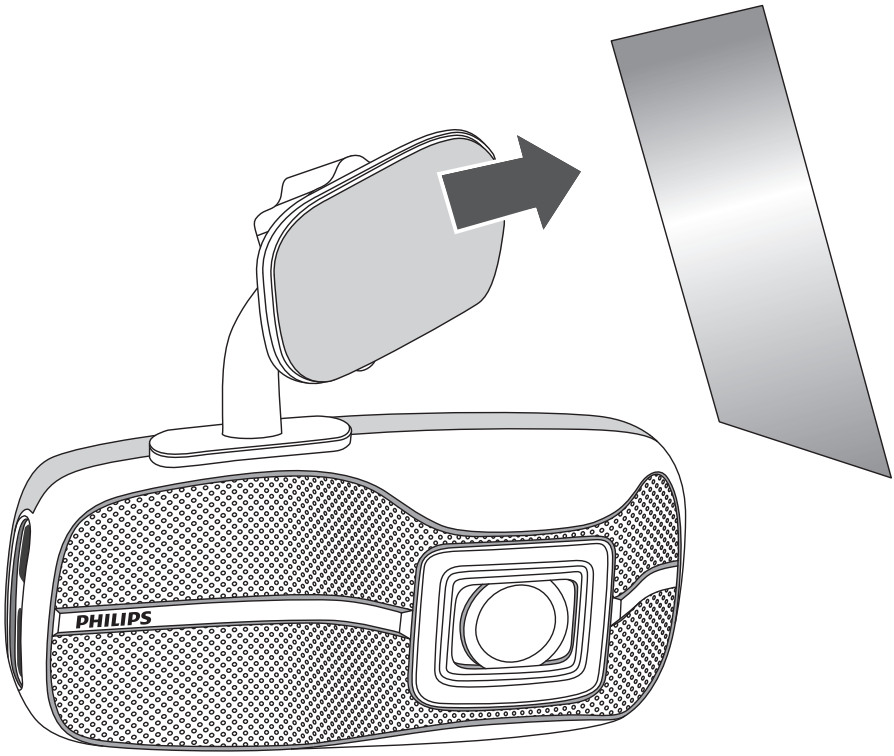
2.2 Installing in Vehicles

Attach the bracket to the device. Slide it into the bracket holder until you hear a click.

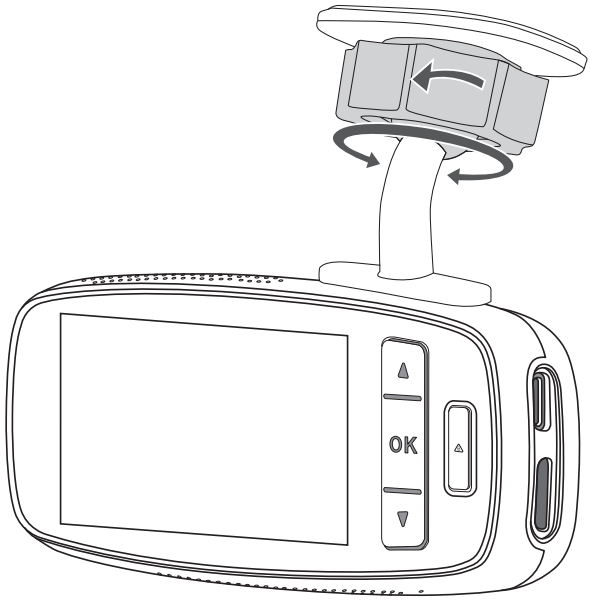
1. Peel off the protective plastic sheet from the adhesive bracket and Lens.



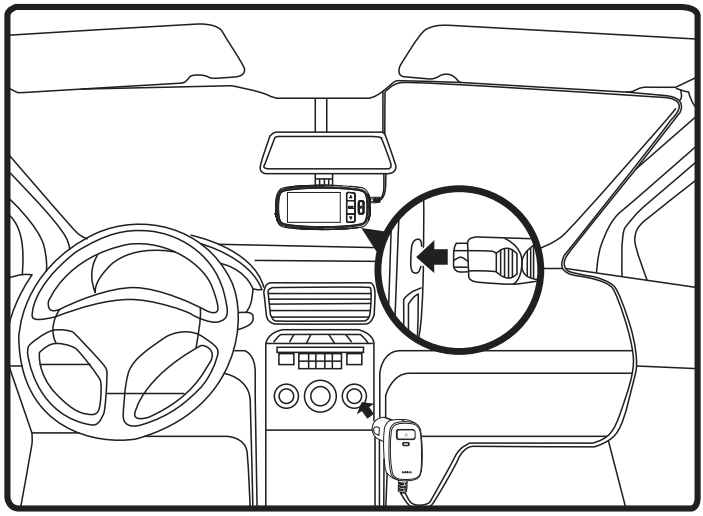
2. Place and press down the bracket firmly onto your windshield.



3. Adjust the device position. Loose the knob to swivel the device to proper position.Then tighten the knob to make sure the device is securely locked in place.



4. Connect the Micro USB interface of the car charger to the Micro USB port of the device.
5. Plug the car charger to the cigarette lighter socket of your vehicle.



2.3 Automatic Power On/Off

1. Once the power of the vehicle is on, the device automatically turns on.
2. If you disconnect the car charger, the device automatically turns off.

2.4 Manual Power On/Off

1. To turn on the device, slide the switch to ON.
2. To turn off the device, slide the switch to OFF.

2.5 Manual Record Start/Stop

1. When device in automatic recording status, press ▲ to stop recording.

2. When device in stop recording status, press ▲ to start recording video again.

2.6 Manual Voice Recording Off/On

1. When device set voice recording on in system setting, press ▼ to switch voice recording to Off.

2. When device set voice recording Off in system setting, press ▼ to switch voice recording to On.

2.7 Remove the Memory Card

Slide the switch to Off, and push to eject the memory card out of the slot.

2.8 About Micro SD Card

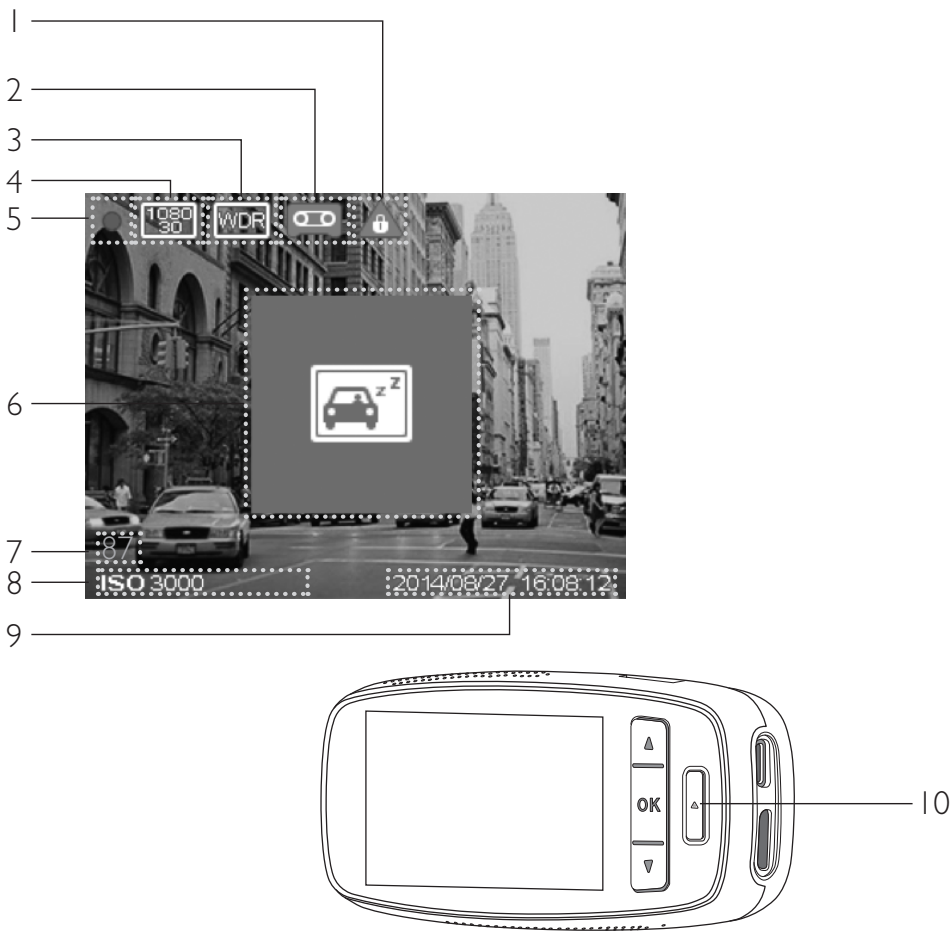
1. Please use Micro SD card with the size/memory at least 8GB, Class6(up to 32GB)
2. Be sure to format Micro SD card using the device before the initial usage.
3. The following information is the card capacity and Recording time:

Micro SD Card Capacity	Video Resolution		
	(720P/30FPS)	(720P/60FPS)	(1080P/30FPS)
16GB	260 minutes	170 minutes	160 minutes
32GB	520 minutes	340 minutes	320 minutes

Notes:

1. If car power supply doesn't stop automatically, it is recommended to disconnect the car charger manually to avoid car battery power lost.
2. Please use our dedicated car charger to avoid non-compliance with the device.
3. Once connected to a PC through USB, the device only allows data transfer.

3 User Interface Overview



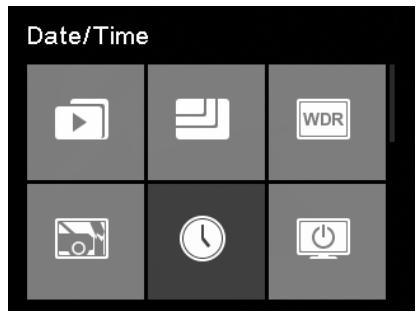
No.	Description
1	Emergency recording indicator
2	Voice recording ON/OFF switch
3	WDR(Wide dynamic range) indicator
4	Resolution indicator
5	Recording/stop indicator
6	Driver fatigue alert icon
7	Fatigue index
8	ISO value
9	Date/Time stamp
10	3-color LED indicator Blue: Recording status Red: Emergency recording status Green: non-recording status(in start-up, menu operation or other abnormal status)

4 System Setting

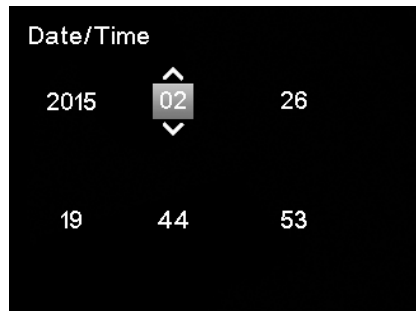
Press on **OK** to show the menu list, and set different functions of the device.

4.1 Set Date and Time

1. Press **OK** to open the on screen display menu.



2. Press ▲/▼ to select Date/Time and press **OK** to enter date and time setting Menu.



3. To adjust date and time field, press **OK** to select the field.
4. Press ▲/▼ to select the value.
5. Repeat steps 3-4 to adjust other fields.
6. Press ⏏ to save your changes.

4.2 Function Settings

No.	Function	Menu Icon	Description
1	Video		Operate normal and emergency video file, users can play, pause, delete, lock, and unlock the video files.
2	Resolution		Set the video resolution to Full HD 1080P(FHD), HD Premium(60FPSHD+) and HD Premium(HD+).
3	WDR (Wide Dynamic Range)	WDR	Switch on/off WDR function.

4	Collision Detection		Select the level of event detection sensitivity to high sensitivity/ middle sensitivity/low sensitivity/off. The Collison Detection function will automatically detect any collision events, and create an emergency video clip. The emergency video clip will show 30 seconds before and after the event detection. The video file will be saved into the Emergency Record folder.
5	Date/Time		Set date and time for the device
6	LCD Auto Off		Set the time before the monitor is turned off automatically, or set the monitor always on.
7	Format		Format your TF card(Micro SD). Please format your card using the device before you use it for the first time.
8	Language		Chinese, English, Japanese are available for selection.
9	Voice Recording		Switch on/off voice recording function.
10	EV Value		Manually adjust the exposure level.
11	Date Stamp		Switch on/off date and time marking on the video.
12	Motion Detection		Switches to ON to trigger Motion Detection mode. the function will detect movements in the field of front view. When any movement is detected, continuous 20 seconds recording starts immediately. if any movement is detected in the 20 seconds, recording will last additional 20 seconds from the trigger time.
13	Driver Fatigue Alert		Switch on/off driver fatigue alert function.
14	Default		Reset all device settings to factory default settings.
15	About		Firmware version, and related product information.

5 Operating Instructions

5.1 Recording Videos

5.1.1 Video Recording

When the power of the vehicle is on, the device automatically turns on and starts recording. Recording will automatically stop when the power of the vehicles is off. Or, press ▲ to stop recording manually at any time.

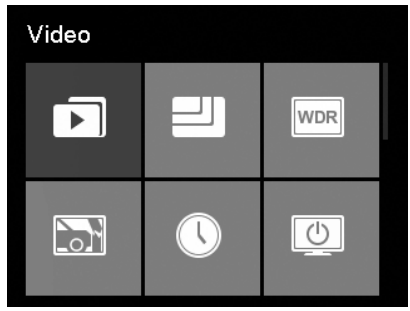
5.1.2 Emergency Recording

1. When the Collision Detection function is activated, the device will automatically detect any collision events, and create an emergency video file. The emergency video clip will show 30 seconds before and after the event detection. The video file will be saved into the Emergency Records folder.
2. During video recording, you can manually create an Emergency Recording, to secure a video file of any event that might happen, with the EasyCapture buttons ⚠ located on the device or on the cigarette-lighter adaptor.
3. Press ⚠ to start the manual Emergency Recording.
4. ⚠ icon appears on the top right side of the screen, indicating Emergency Recording is ongoing.
5. The system automatically creates emergency video files. The video files are saved into the Emergency Records folder.

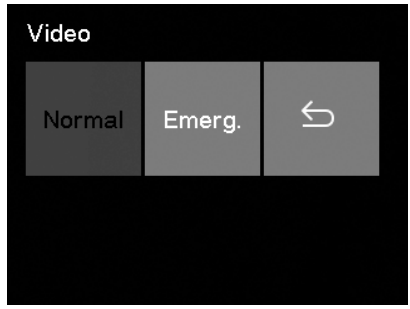
5.2 Playback Videos

1. Press **OK** to enter Menu.

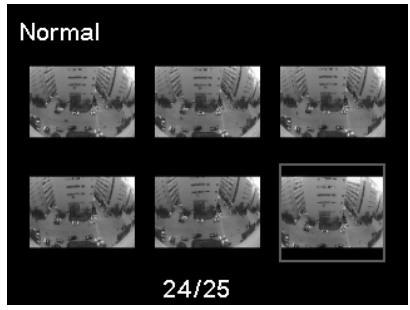
2. Press ▲/▼ to select **Video** and press **OK**.

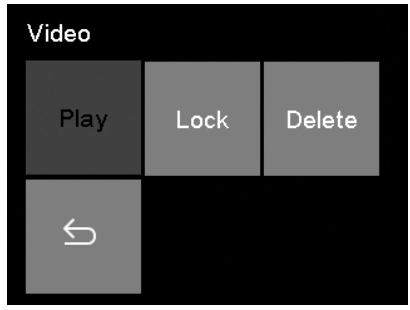


3. Press ▲/▼ to select **Normal Recording** and press **OK**.



4. Press ▲/▼ to browse for the desired video file and press **OK**, and then select **Play** to play the desired video.

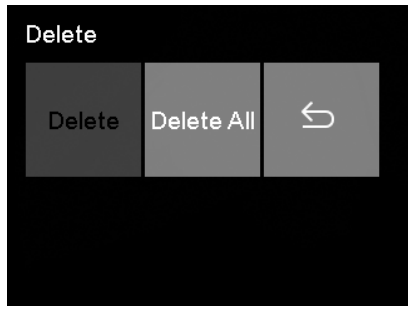




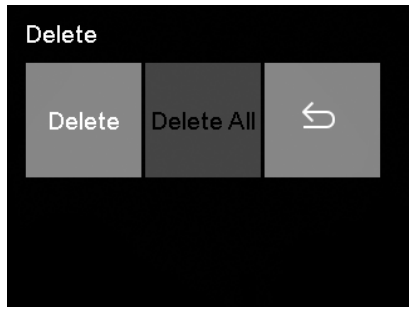
5. During playing video, press **OK** to pause. Press ▲ to fast forward, press ▼ to fast backward, press emergency button to return.

5.3 Deleting Videos

1. Press ▲/▼ to browse for deleting the desired video file and press **OK**, and then select **Delete** to remove video file.



2. Select **Delete All** to delete all unlocked video files.

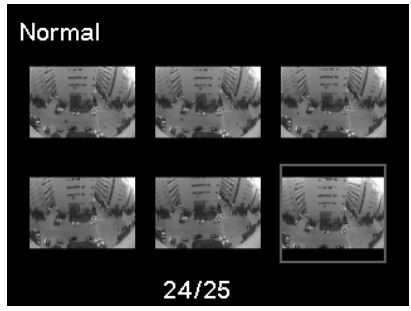


3. A confirmation message appears on the screen, press ▲/▼ to select **YES** and press **OK** to confirm deletion.

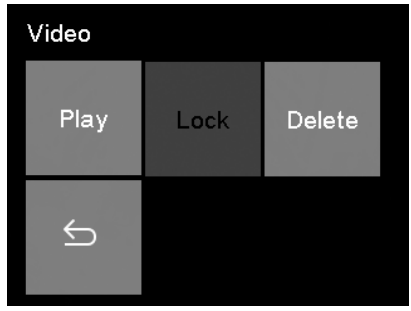
5.4 Protecting Videos

To secure videos against being overwritten.

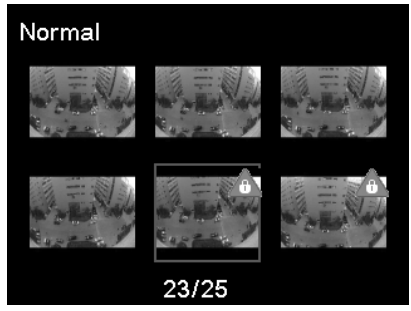
1. Press ▲/▼ to browse for the video files and press **OK**.



2. Press ▲/▼ to select **Lock** and press **OK**.



3. Return to video list automatically, and selected video is protected.



4. Use same method to unlock video files.

6 Add-on Functions

6.1 Driver Fatigue Alert

To help car drivers manage the evolution of their fatigue, a fatigue index displays the evolution of driver's fatigue, taking into account physiological and journey related parameters such as time of the day and time spent driving. The device will alert the driver when fatigue index reaches 80, and also every two hours of driving.

When switch on, fatigue index will be displayed on the screen. When fatigue index is less than 60, the value in green color is displayed on screen. Before fatigue index reaches 80, yellow value is displayed on screen with an alert sound. When fatigue index is above 80, red value is displayed on screen with 3 alert sounds and an fatigue icon pop up to alert user.(System time need set correctly when user switch on driver fatigue alert function).

6.2 EasyCapture Function

Philips EasyCapture ensures you always have an emergency recording button to hand, to capture and save everything that happens on the road: one clearly identified on the device, and one on the cigarette lighter adaptor. Simply press the EasyCapture button (nr 13, product overview),

to create and protect up to 6 minutes video clip before and after you pressed the emergency button. The recording file will be protected and cannot be deleted unless you unlock the file in Emergency file folder by manual operation or Emergency file folder is full. The number of recording files is depending on the size of the SD-card.

7 Technical Specifications

Functions	Automatic recording Collision detection & emergency file protection Seamless loop recording Auto exposure Auto white balance Date and time stamp Auto LCD off Driver fatigue alert with fatigue index EasyCapture emergency recording buttons Wide angle Advanced night view
Image Sensor	2.1 Mega-pixels CMOS
Video Resolution	Full HD(1920x1080p) @30fps HD Premium(1280x720p)@60fps HD Premium(1280x720p)@30fps
Display	2.7'' LCD
Aperture Range	F/#2.0
Fixed Lens	7G wide angle lens, FOV 156 (Diagonal)
File Format	.MOV PCM audio compression /H.264 video compression
Random Access Memory	64Mx16bit (1Gbits) DDR3 SDRAM
Internal Memory	32Mb SPI Flash
Recording Media (external memory)	Micro SD card (class 6 or higher, up to 32GB)
Recording Time	160min @16GB for full HD 320min @32GB for full HD
RTC	5days
Operating Temperature	-10℃ ~ 65℃
Storage Temperature	-20℃ ~ 70℃
Accessories	Micro USB Car Charger, 3M Mount Bracket, Quick Guide
Interface	Micro USB 2.0, HDMI, Micro SD Slot, Microphone, Speaker
Languages	English, Chinese
Power	12-24V/5V 1A car adapter with EasyCapture record button
Dimensions (LxWxH)	106.7 x 50.0 x 32.5mm

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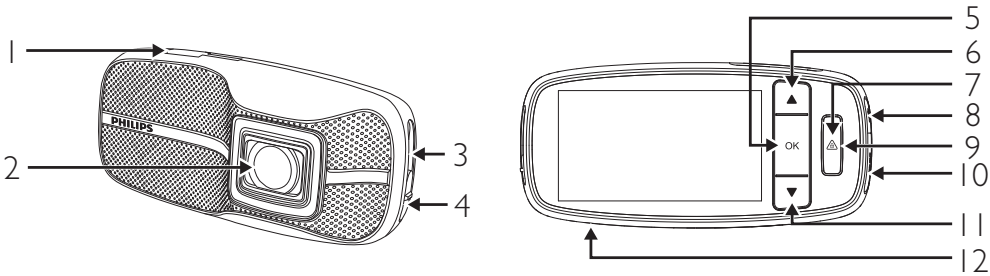
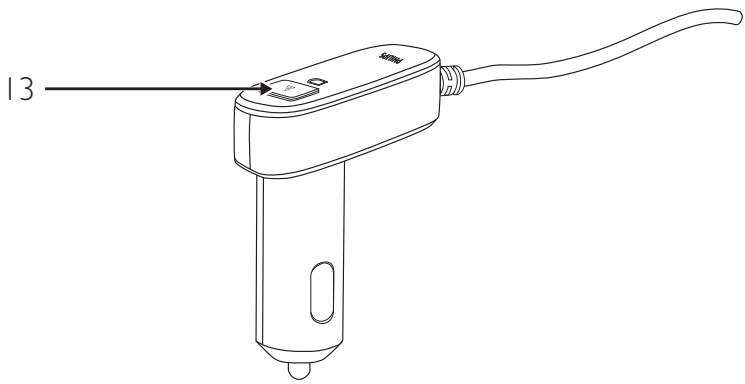
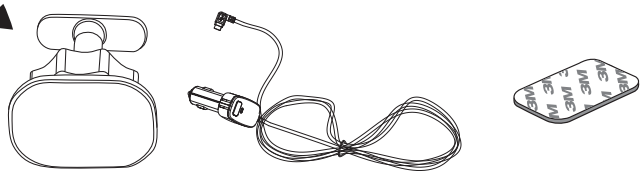
1 产品简介





1. 支架座
2. 镜头
3. Micro SD卡插槽
4. 滑动开关(ON/OFF)
5. 确认按钮(OK)
6. 上翻按钮/录像(▲)
7. EasyCapture按钮/返回(⏏)
8. Micro USB接口
9. 三色LED指示灯
10. HDMI接口
11. 下翻按钮/录音开始/关闭(▼)
12. 扬声器
13. 带有EasyCapture按钮的点烟器

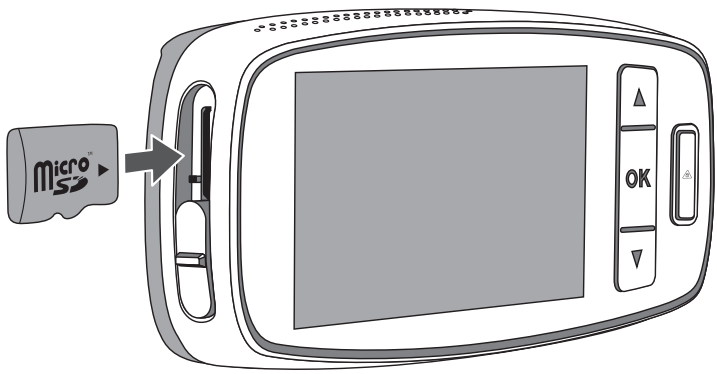


车用支架 x 1　车用充电器 x 1　备用粘贴 x 1　用户手册 x 1

2 快速入门

2.1 插入存储卡

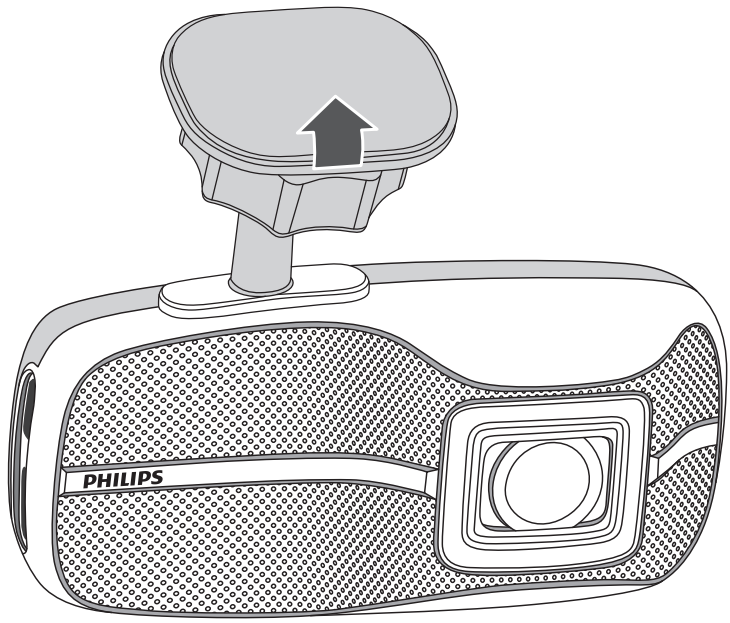
1.存储卡金属触点面向镜头插入设备。
2.推动存储卡，直到其咔嗒一声锁定到位，然后滑动开关至“ON”位置。



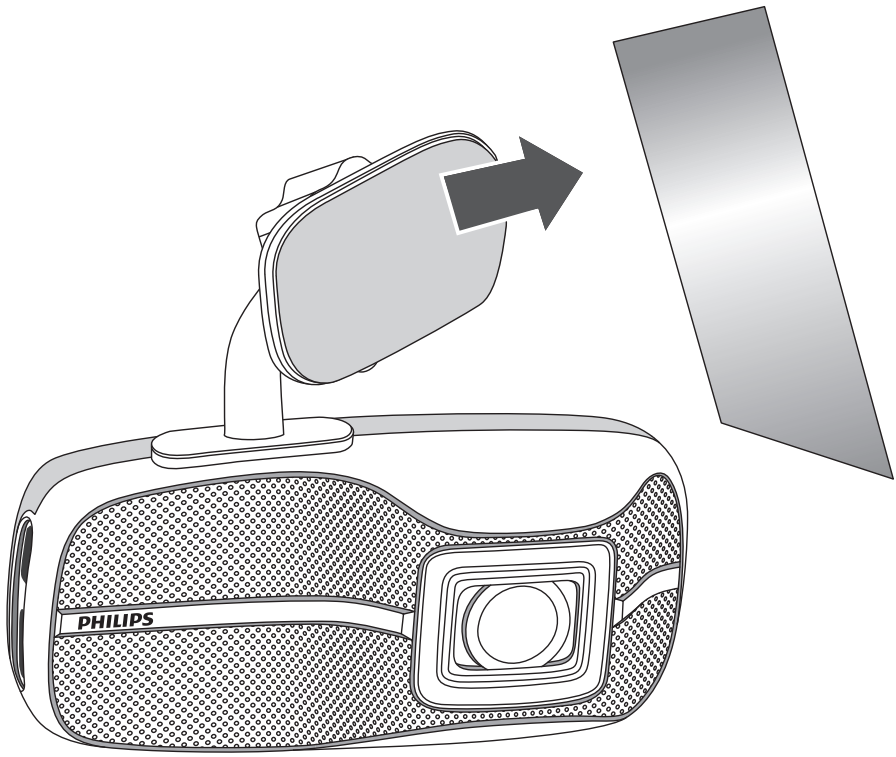
2.2 车内安装

把支架连接到设备上。将支架滑入支架座，直到听到咔嗒声。

1.撕去支架背面和镜头前面的塑料保护膜。

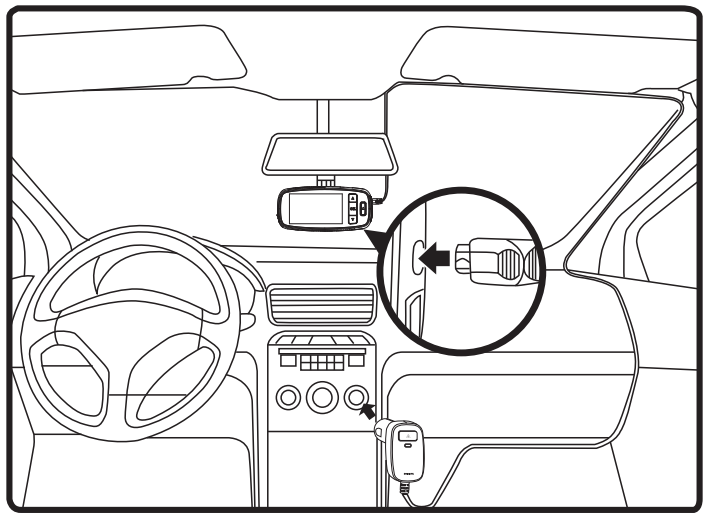


2.将支架置于挡风玻璃适当位置，然后向下压紧固定在挡风玻璃上。



3.松开旋钮，调整设备至合适位置，然后拧紧旋钮，确认设备已牢固锁定。

4.连接车载充电器Micro USB接口与设备Micro USB接口。
5.将车载充电器插接汽车点烟器插孔。



2.3 自动打开/关闭电源

1.汽车引擎一旦发动，设备即自动开机。
2.断开车载充电器时，设备即自动关机。

2.4 手动打开/关闭电源

1.滑动开关至“ON”位置，即可手动开机。
2.滑动开关至“OFF”位置，即可手动关机。

2.5 手动录像开始/停止

1.设备处于自动录制状态时，按▲按钮，即可停止录制。

2.设备处于停止录制状态，按▲按钮，即可重新开始录制视频。

2.6 手动录音关闭/开始

1.当在系统设置中设备处于录音开启状态时，按▼按钮，即可关闭录音。

2.系统设置中设备处于录音关闭状态时，按▼按钮，即可开始录音。

2.7 取出存储卡

滑动开关至“OFF”位置，并按下存储卡，使其从插槽内弹出。

2.8 关于Micro SD卡

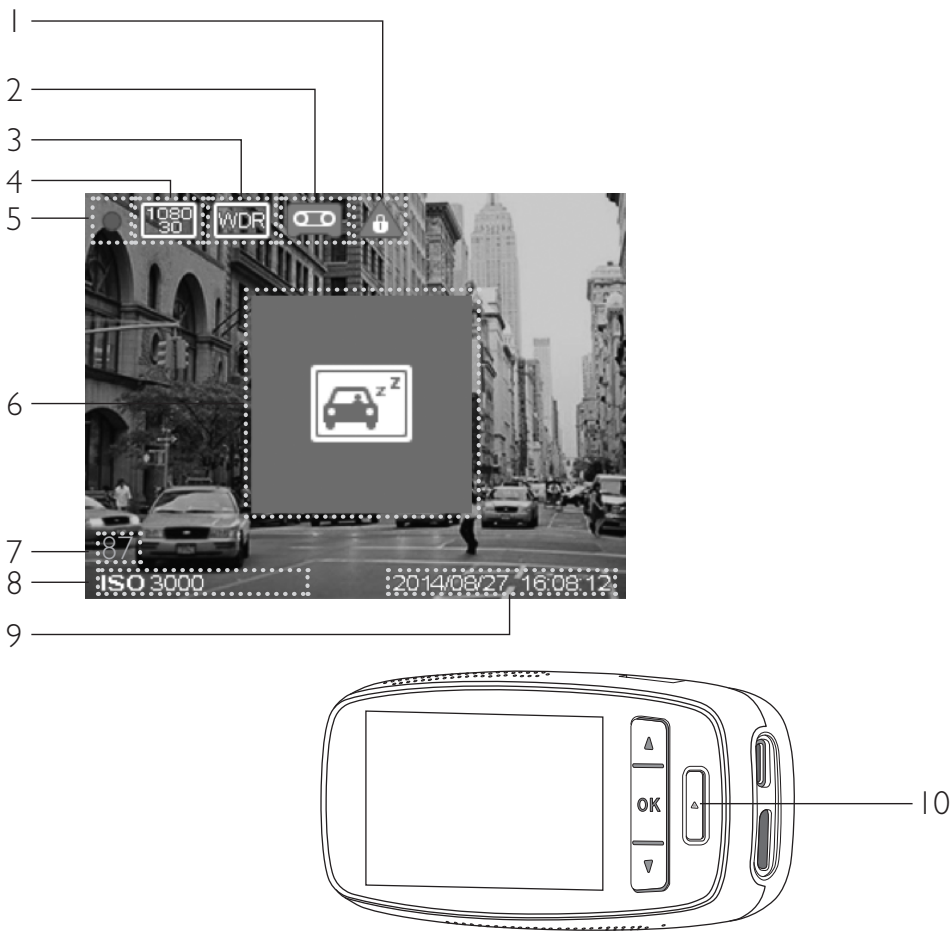
1. 请使用大小/内存不低于8GB（不高于32GB）的Class6级别以上Micro SD卡。
2. 首次使用前，请务必使用设备对Micro SD卡进行格式化。
3. 下列信息是SD卡的容量和录像时间:

Micro SD卡容量	视频分辨率		
	(720P/30FPS)	(720P/60FPS)	(1080P/30FPS)
16GB	260 分钟	170 分钟	160 分钟
32GB	520 分钟	340 分钟	320 分钟

注意事项:

1. 若车载电源不能自动关闭，建议手动断开车载充电器，以免蓄电池电量损耗。
2. 请使用飞利浦专用车载充电器，以免其它充电器与设备不相匹配。
3. 一旦通过USB连接个人电脑，设备仅允许传递数据。

3 用户界面概览



编号	名称
1	紧急录像指示图标
2	录音ON/OFF开关
3	WDR（宽动态范围）指示图标
4	分辨率指示图标
5	录像/停止指示图标
6	疲劳驾驶提醒图标
7	疲劳指数
8	ISO数值
9	日期/时间戳
10	三色LED指示灯 蓝色：录像状态 红色：紧急录像状态 绿色：非录像状态（处于启动、菜单操作或其他异常状态）

4 系统设置

按**OK**按钮，即可显示菜单列表，并可设置设备的各种功能。

4.1 设置日期和时间

1.按**OK**按钮，即可打开屏幕上的显示菜单。

2.按▲/▼按钮，即可选择日期/时间，按**OK**按钮，即可进入日期/时间设置菜单。

3.要调整日期和时间字段，按**OK**按钮选择该字段即可。
4.按▲/▼按钮选择数值。
5.重复3～4步，调整其他字段。
6.按 ⏏ 按钮保存所作更改。

4.2 功能设置

编号	功能	菜单图标	说明
1	视频文件		操作正常和紧急视频文件，用户可以播放、暂停、删除、锁定或解锁视频文件。
2	图像分辨率		将视频分辨率设定为全高清1080P(FHD)、高清(60FP-SHD+)和高清(HD+)。
3	宽动态WDR	WDR	打开/关闭WDR功能。

4	碰撞自动记录		将碰撞检测灵敏度等级选定为高灵敏度/中灵敏度/低灵敏度/关闭。 碰撞自动记录功能将自动检测任何碰撞事故，并生成紧急视频片段。紧急视频将录制碰撞检测触发时点前后的视频，至多保存6分钟视频。该视频文件存放在紧急录像文件夹内。
5	日期时间		设置设备的日期和时间。
6	屏幕自动关闭		监视器自动关闭前，设置时间，或将监视器始终设置在打开状态。
7	格式化		格式化TF卡（Micro SD卡）。首次使用TF卡前，请先使用设备对其进行格式化。
8	语言选择		可供选择的语言包括中文、英文。
9	录音		开始/关闭录音功能。
10	曝光设置		手动调整曝光量。
11	时间戳		打开/关闭视频上的日期和时间标记。
12	移动侦测模式		开关选项设置到开以开启移动侦测模式。 该功能将检测镜头前视场内的物体活动或运动.当有任何活动或运动被检测到，连续20秒的录像将立刻触发。如果任何活动或运动在20秒内被检测到，录像将从活动或运动的触发时间点开始，持续额外的20秒录像。
13	疲劳驾驶提醒		打开/关闭疲劳驾驶提醒功能。
14	恢复出厂设置		恢复设备所有设置到出厂默认设置。
15	系统版本		固件版本和相关产品信息。

5 操作说明

5.1 录制视频

5.1.1 录制视频

汽车接通电源时，设备即自动开机并开始录制。汽车电源断开时，录制自动停止。或随时按▲按钮，即可停止自动录制。

5.1.2 紧急录像

1.碰撞自动记录功能启动时，设备将自动检测任何碰撞事故，并生成紧急视频文件。紧急视频文件将至少保存触发紧急录像时点前后30秒的视频。该视频文件存放在紧急录像文件夹内。

2.视频录制期间，借助位于设备上或车载充电器上的EasyCapture按钮，可以手动开始紧急录像，以锁定可能发生的任何事故的视频文件。

3.按 ⚠ 按钮，启动手动紧急录像。

4.⚠ 图标出现在屏幕右上侧，表明紧急录像正在进行。

5.系统自动生成紧急视频文件。该视频文件存放在紧急录像文件夹中。

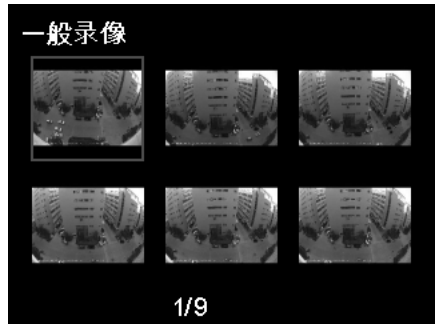
5.2 回放视频

1.按“**OK**”按钮进入菜单。

2.按▲/▼按钮，选择视频，并按“**OK**”按钮。

3.按▲/▼按钮，选择“**一般录像**”，并按“**OK**”按钮。

4.按▲/▼按钮，浏览所需的视频文件，并按“**OK**”按钮，然后选择“**播放**”来播放所需的视频。



5.播放视频期间，按“**OK**”按钮停止。按▲按钮快进，按▼按钮快退，按紧急按钮返回。

5.3 删除视频

1.按▲/▼按钮，浏览并删除所需的视频文件。之后按“**OK**”按钮，选择“**删除**”移除所需视频。

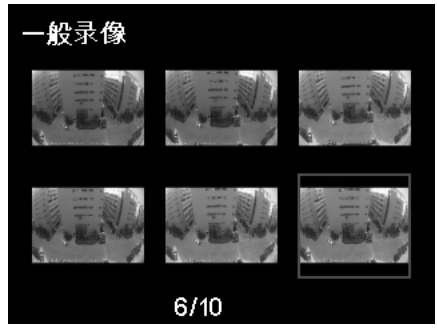
2.选择“**删除全部**”删除所有未被锁定的视频文件。

3.确认信息出现在屏幕上，按▲/▼按钮，选择“**是**”并按“**OK**”按钮确认删除。

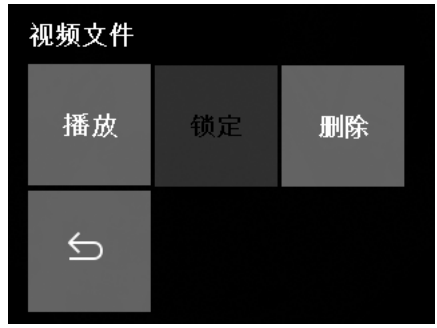
5.4 锁定视频

锁定视频，防止视频被改写。

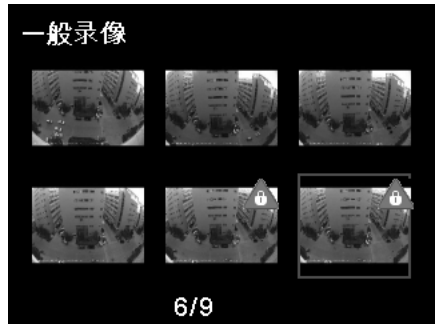
1.按▲/▼按钮，浏览视频文件并按“**OK**”按钮。



2.按▲/▼按钮，选择“**锁定**”并按“**OK**”按钮。



3.自动返回视频清单，选定视频已设为锁定。



4.使用相同的方法给视频文件解锁。

6 附加功能

6.1 疲劳驾驶提醒功能

为帮助驾驶员有效预防疲劳驾驶，考虑到与生理和行程相关的各种参数（例如当前时间和驾驶时间等），疲劳指数会显示驾驶员疲劳的变化状况。当疲劳指数达到80时，设备即会提醒驾驶员，且每连续驾驶2小时，设备亦会提醒驾驶员。

开启疲劳驾驶提醒功能时，屏幕上会显示疲劳指数。当疲劳指数小于60时，屏幕上会显示绿色数值。在疲劳指数达到80之前，屏幕上会显示黄色数值并同时发出一声提醒声。当疲劳指数大于80时，屏幕上会显示红色数值并同时发出三声提醒声，此外还会弹出疲劳图标提醒用户。（用户开启疲劳驾驶提醒功能时，需正确设置系统时间。）

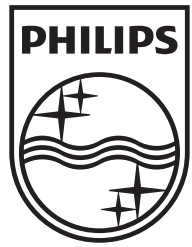
6.2 EasyCapture功能

飞利浦EasyCapture功能旨在确保你能随手触及紧急录像按钮，捕捉并保存道路上发生的任何事情：一个EasyCapture按钮设置在设备上，并配有明显标识，另一个EasyCapture按钮设置在车载充电器上。只需按下EasyCapture按钮（产品概览中第13号），

即可在按下紧急按钮前后，录制并保存长达6分钟的视频片段。录像文件将被锁定，除非通过手动操作解锁紧急文件夹内的文件或紧急文件夹已满，否则无法删除该录像文件。录像文件的数量取决于SD卡内存大小。

7 技术规格

功能	自动录像 碰撞自动记录和紧急文件锁定 循环录像 自动曝光 自动白平衡 日期和时间戳 屏幕自动关闭 显示疲劳指数的疲劳驾驶提醒 EasyCapture紧急录像按钮 超广角 先进夜视系统
图像传感器	210万像素CMOS
视频分辨率	全高清(1920x1080P)@30fps 高清(1280x720P)@60fps 高清(1280x720P)@30fps
显示屏	2.7英寸显示屏
光圈范围	F/#2.0
定焦镜头	7G广角镜头，可视角156度（对角线）
文件格式	.MOV PCM音频压缩/H.264视频压缩
随机存储器	64M x 16bit(1Gbits)DDR3 SDRAM
内存储器	32Mb SPI闪存
录像媒介（外存储器）	Micro SD卡（Class6级别或以上，最大容量32GB）
录像时间	16GB：全高清160分钟 32GB：全高清320分钟
RTC保持时间	5天
工作温度	-10℃～65℃
存储温度	-20℃～70℃
附件	Micro USB车载充电器、3M安装支架、备用粘贴 、用户手册
接口	Micro USB2.0接口、HDMI接口 、Micro SD插槽、麦克风、扬声器
语言	英文、中文
电源	12-24V/5V 1A车载适配器，带EasyCapture录像按钮
尺寸（长×宽×高）	106.7 x 50.0 x 32.5mm



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