

# 使用手册

## User Manual



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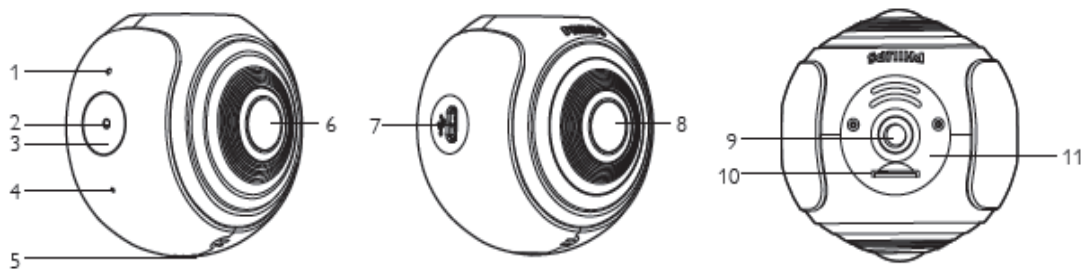
简体中文 专业级记录仪  
EN Automotive Driving Recorder

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# 1. 产品简介



## 1. WIFI 状态指示灯

- 绿灯熄灭：WIFI 关闭
- 绿灯慢闪：等待连接
- 绿灯常亮：WIFI 已连接
- 绿灯快闪：数据正在传输

## 2. 录影状态指示灯

- 蓝灯常亮：正在录影
- 蓝灯熄灭：停止录影
- 呼吸灯闪烁：紧急录影

## 3. 紧急按键

## 4. 麦克风

## 5. 扬声器

## 6. 后镜头（朝向车内）

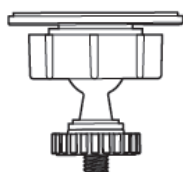
## 7. Micro USB 接口

## 8. 前镜头（朝向车外）

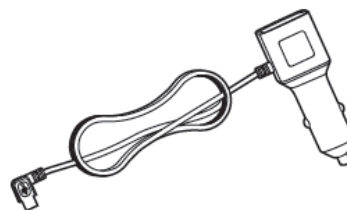
## 9. 螺纹固定孔

## 10. MicroSD 卡插槽

## 11. Reset 按键



支架 × 1



充电器 × 1

## 2. 安装指南

### 插入 MicroSD 卡

将 MicroSD 卡的金属触点朝向设备前镜头，然后插入 MicroSD 卡，推入 MicroSD 卡，直到卡至插槽内定位



### 取出 MicroSD 卡

按压 MicroSD 卡即可将其从插槽内取出。

### 关于 MicroSD 卡

- 请至少使用 32GB，Class10 的 MicroSD 卡（最大支持 128GB）。
- 第一次使用前，请用本机的 APP 格式化 MicroSD 卡。
- 以下说明 MicroSD 卡容量以及录制时间，仅供参考。

MicroSD 卡容量	录像时长
	分辨率：2880x1440@30 帧
32GB	250 分钟
64GB	500 分钟
128GB	1000 分钟

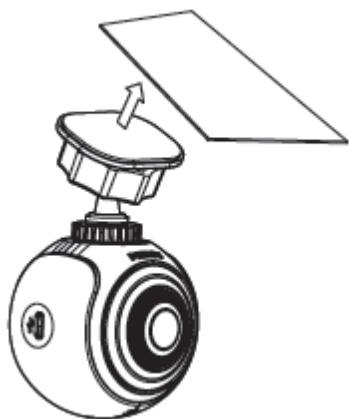
1. 将支架旋入螺纹固定孔。



2. 撕下黏贴在支架上的塑料保护膜。



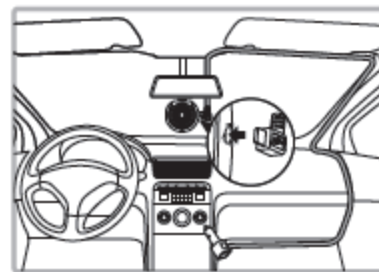
3. 固定支架并将其牢牢按压在汽车挡风玻璃上。



4. 调整设备位置确保前镜头朝向车外，锁紧塑料固定螺母。



5. 将充电器的 USB 接口连接到设备的 USB 供电接口，将充电器的另一端连接到车辆点烟器插座。安装的最佳位置是后视镜的后方，以便达到某些模式的最佳效果，例如宝贝模式。



6. 扫描二维码在下载安装怡安记录仪 APP。



7. 汽车发动时，设备将自动开启，WIFI 也将自动开启。默认名称是 PHILIPS\_XXXX，默认密码是 12345678。请连接 WIFI 并打开飞利浦怡安记录仪 APP，日期和时间将自动同步到设备上。

8. 当设备安装在三脚架（需要单独购买）时，180 度自动旋转功能可以将图像的角度自动调整。

**注意：**

1. 为避免规格不符，请使用本公司提供的专用充电器。
2. 建议熄火时即拔掉充电器。
3. MicroSD 卡热插拔会导致系统自动关机，请不要在系统工作时拔出或插入 MicroSD 卡。
4. 按压卡槽内的 MicroSD 卡，即可将其从卡槽内取出。

### 3. 用户界面

用户界面编号以及功能如下图所示：



编号	功能	说明
1	实时显示	实时显示 VR-ARD920 的图像
2	菜单	点击菜单图标进入菜单设置界面
3	录影状态指示	当正在录影时，录影状态指示在闪烁状态
4	全屏显示图标	点击全屏显示图标进入全屏显示状态
5	拍照图标	点击可以拍照
6	最近影像	点击视频文件进行回放
7	相机页标	点击记录仪页标进入记录仪界面
8	相册页标	点击进入相册界面
9	开始/停止图标	开始/停止视频录制
10	观看模式	选择不同的角度观看视频
11	视角变换	视角随着手机的不同位置而调整或者用户手动调整视角
12	功能模式图标	点击选择不同的视频模式

## 4. 系统设置和模式设置

点击菜单按钮，即可进入菜单列表，显示以下系统设置。





编号	功能	描述
1	相机	更改设备名称和 WIFI 密码。
2	录像	<b>录音:</b> 打开/关闭录音功能，默认为开 <b>时间戳:</b> 在视频文件中增加时间信息，默认为开 <b>EV:</b> 调整 EV 值，默认为 0，调整范围-2~+2. <b>WDR:</b> 打开/关闭宽动态功能，默认为关
3	SD 卡	<b>状态:</b> 当 SD 卡插入设备时，显示“插入” <b>格式化:</b> 格式化 SD 卡 <b>注意：</b> *1).首次使用或者使用其他设备上的 SD 卡时，请先在本机设备上格式化。 *2)格式化前，请先备份 SD 卡内文件。
4	高级	<b>碰撞检测灵敏度：</b> 设置碰撞检测的灵敏度。 <b>疲劳驾驶提醒：</b> 打开/关闭疲劳驾驶提醒功能。 <b>连接手机热点：</b> 打开并连接手机热点，用户可以通过 WIFI 连接设备并同时上网。(此功能只应用在安卓系统，空中下载功能需要先开启本功能) <b>自动连接手机热点：</b> 自动打开并连接手机热点。(此功能只应用在安卓系统)
5	系统	<b>硬件版本：</b> 显示当前设备固件版本信息 <b>日期&amp;时间：</b> 设置系统日期和时间。当 APP 连接到设备后，手机的日期和时间会自动步到设备上。 <b>硬件固件升级:</b> 升级设备的固件，详情请参考 5.4 节 <b>恢复默认设置：</b> 设备的所有参数恢复为出厂设置状态，使用此功能后，请重启设备。

点击功能模式图标进入模式设置界面。



编号	功能	描述	文件时长
1	记录仪	默认录影模式 2880x1440@30fps,前后镜头独立曝光。	1分钟
2	VR	2880x1440@30fps,前后镜头独立曝光。	5分钟
3	高速	1440x720@30fps,前后镜头独立曝光。	3分钟
4	隐私	1440x1440@30fps,只有前路镜头有效。	1分钟
5	宝贝	2880x1440@30fps,此模式下,预览画面切到后排座位,并放大两倍。	1分钟

## 5. 操作说明

### 5.1 开关机以及 Reset 按键

#### 5.1.1 自动打开/关闭记录仪

汽车引擎一旦发动，记录仪即自动开机并录影。如果您拔掉车充或断开 USB 连接线，记录仪即自动关机。

#### 5.1.2 WIFI 开启和 App 同步

记录仪开启后，WIFI 会自动开启等待连接。

App 连接到记录仪后，日期和时间将会自动同步到记录仪。App 的语言和语音提醒功能也会和手机语言设置保持一致。

#### 5.1.3 重置记录仪

当机器在操作过程中出现死机或是无法操作的情况，按下 **Reset** 按键可重启机器。所有设置恢复为出厂设置。

### 5.2 快捷按键

记录仪在插入 MicroSD 卡开机后，自动进入录影模式后可以通过以下操作触发相应功能。

#### 5.2.1 紧急录像按键

按下紧急录像按键可以触发紧急录像视频。录影状态指示灯变为呼吸灯。

### 5.3 录制视频

#### 5.3.1 一般录像

汽车上电后，记录仪自动开机并开始录像。当汽车引擎关闭时，录像功能也自动停止。一般录像文件存储在 SD 卡的 NORMAL 文件夹内，并且该文件以当前系统时间来命名。

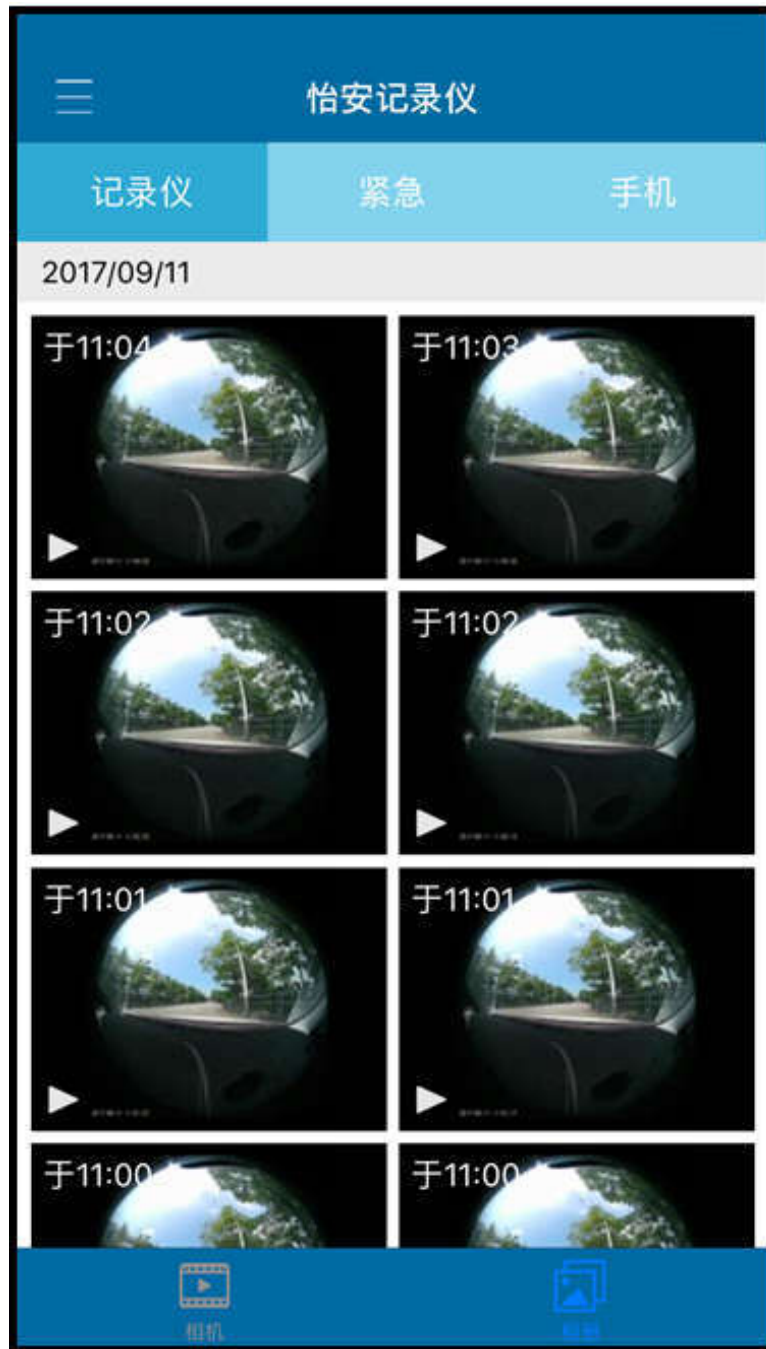
#### 5.3.2 紧急录像

紧急录像文件将会在用户按下紧急按键或设备自动监测到碰撞事件时，自动生成，并将其存储在以 EMGREC 文件夹内。

#### 5.3.3 视频回放

在录影过程中，点击录影开始/停止图标停止录影，点击相册页标进入相册，用户可以选择并回放视频。

记录仪	紧急	手机
用户可以浏览视频文件，并且可以回放，删除视频，也将其可以下载到怡安记录仪相册。	碰撞检测功能和紧急按键可以触发紧急录影，用户可以回放和下载到怡安记录仪相册。	当视频文件下载到怡安记录仪的相册后，用户可以选择回放，也可以选择删除，或者输出到系统图库。



#### 5.3.4 退出视频回放界面

点击相机页标会退出相册并且进入相机界面。

### 5.4 手机下载并分享 360 度视频

#### 5.4.1 从 SD 卡下载视频

在相册页面的记录仪子页面下，选中视频文件，可以方便的将视频下载到手机中。视频将保存到怡安记录仪 App 的相册中。用户可在相册页面的手机子页面下查看。

此外，视频文件也可以从 SD 卡上下载到 PC 上，使用第三方的 360 度视频播放器，可以任意调整视频角度。非常适合观看会议和旅游自拍的 video 文件。

#### 5.4.3 导出视频到手机相册

在相册页面的手机子页面下，选择视频，选择输出到系统图库。App 将拼接好的 360 度视频文件导出到手机存储中。安卓系统手机会导出到 Philips/ADR/Export Videos，iOS 系统则可以直接在手机相册中查看。

#### 5.4.3 在社交网络上分享 360 度视频文件

通过怡安记录仪可以轻松分享 360 度视频。只需要从手机相册中导出视频并且上传到 Facebook 或者 YouTube。在优酷平台分享建议从 PC 上上传 360 度视频。从手机上复制 360 度视频文件到 PC，并且上传到优酷平台。然后使用优酷 VR App 在社交网络上（微信，微博）分享链接。  
注意：复制视频到 PC 时，不建议直接从 SD 卡中复制视频。因为 SD 卡中 video 文件没有经过拼接处理。

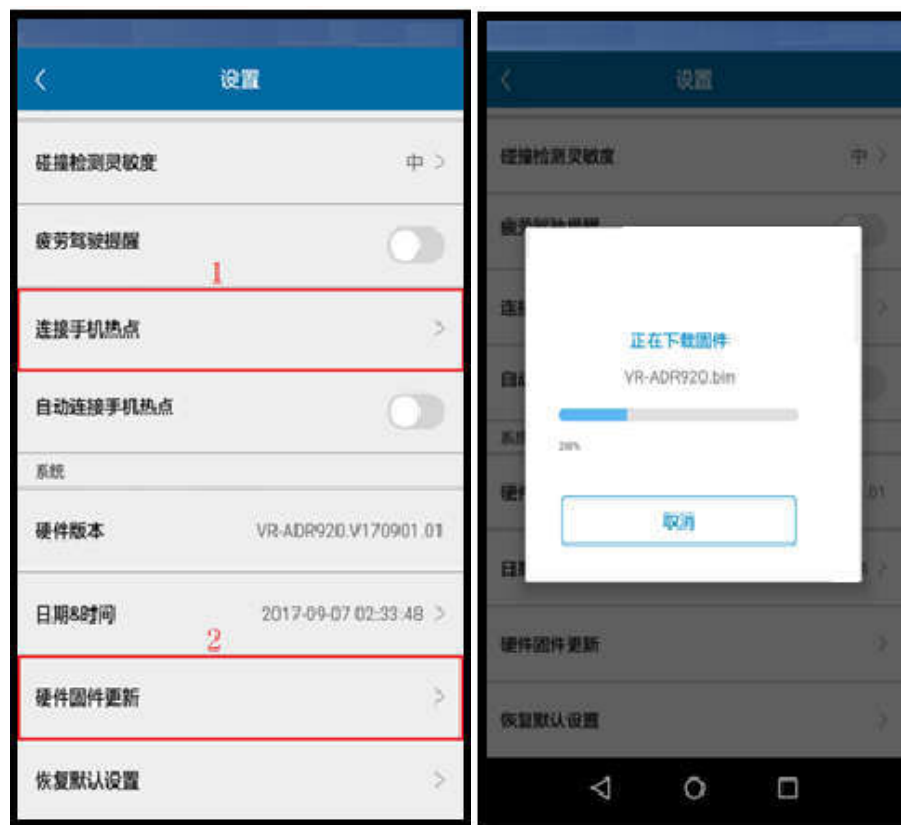
## 5.5 空间下载技术

空间下载技术(OTA)支持从云端通过手机更新设备固件。用户可以自己完成升级过程。

iOS 系统用户先进入菜单设置，点击**系统**子菜单下的**硬件固件更新**固件升级，设备将自动更新至最新版本。



安卓系统用户首先点击**连接手机热点**，等到手机热点打开后，记录仪自动连接设备，并提示 WiFi 已连接，然后点击**硬件固件更新**，手机将自动下载最新固件，下载完成后自动升级固件并重启。



**注意：**

整个过程中，请务必确保手机处于通电状态和数据业务开启状态，设备端处于通电开启状态。若升级失败请重试。

## 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。开启疲劳驾驶提醒功能时，手机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，同时设备发出一声提醒声。当疲劳指数大于 80 时，屏幕上会显示红色数值，设备同时发出三声提醒声（用户开启疲劳驾驶提醒功能时，需正确设置系统时间）。关闭该功能，屏幕上将不会显示疲劳指数。



## 7. 技术规格

自动功能	360 度全景视野 隐私模式 宝贝模式 自动录影 碰撞监测&紧急录像文件保护 循环录像 自动白平衡 日期和时间戳 支持 APP 疲劳驾驶提醒
图像传感器	2x 4 Mega-pixels CMOS 双 400 万像素 CMOS
录像分辨率	3k (2880x1440p) @30fps
App 操控	支持 iOS/Android
无线连接	802.11 b/g/n 2.4GHz
光圈	F/2.0
定焦镜头	2 颗 7 玻鱼镜头, 单颗 190°视场角
文件格式	.MP4
随机存储器	2Gb DDR3 内存
内建存储器	8MB SPI 闪存
可扩展存储器	MicroSD (Class10, 最大支持 128GB)
录像时长	250 分钟 @32GB for 2880x1440@30fps
工作温度	-10°C ~ 60°C
存储温度	-20°C ~ 70°C
随机附件	点烟器, 3M 支架, 快速安装说明
接口	Micro USB 2.0
语言	英语, 简体中文
供电电源	12V 转 5V 点烟器 – 输出功率 5V/1.5A

## 8. 常见问题

**提问:** 为什么发现 360 度影像是两个亮度不一的半球？

**回答:** 这是车内影像增强功能起作用时产生的现象。日间光照强烈，与车内外亮度差常常超出数码影像传感器的宽容度，会造成车外曝光正确时车内影像一团黑暗。在汽车采用较深的侧挡和后档太阳膜时更加如此。本机的车内影像增强功能会动态处理内外两颗镜头的曝光值，在保证车外正确曝光的情况下，保证车内亮度正常。

**提问:** 如果我不希望看到这种亮度差，有没有什么办法？

**回答:** 你可以尝试把机器水平旋转 90 度，让两个镜头的进光亮大致相同，这时候亮度也会接近一致。如果是遇到斜侧面光强烈的时候，试着把 USB 接口方向朝向光源，在手机 GoSure App 里面可以实时查看画面亮度变化。可能会需要适当调整 EV（曝光补偿）以取得更准确的车外曝光。（注意在这样调整后车内影像功能减弱，车内影像会明显变暗）。

**提问:** 为什么我不能连接手机和记录仪 WIFI？

**回答:** 记录仪每次只能连接一台手机。请先排除是否有其他手机先连接到了记录仪。如果不是这种情况，可以尝试给记录仪断电，等紧急按钮内的蓝色指示灯完全熄灭后，重新加电。你会听到“WIFI 已开启”的提示音，按照说明书步骤连接。

**提问:** 如何防止某段录像被记录仪自动擦除？

**回答:** 作为一台行车记录仪，当文件夹满了后自动擦除最早的文件以清理出空间给新的录像是必备的功能。本机在存储卡的“NORMAL”和“EMGREC”两个文件夹下的文件，也符合以上定义。**你可以选择“VR”和“竞速”两个模式，在这两个模式对应的文件夹里面的文件不会自动清理。注意这意味着这两个文件夹满后您需要自己删除此文件夹里面的文件，或者格式化存储卡才能释放空间。**

**提问:** 为什么在其他存储设备上使用过的旧 MicroSD 卡在该设备上无法录像？

**回答:** 由于 MicroSD 存储卡是耗材并且旧卡的文件读取写入速度会下降，所以不建议在该产品上使用在其他其他设备上的使用过的旧卡，请使用全新的 Class10 以上的高速存储卡以保证产品正常工作。

**提问：**用户可以自己修改 WIFI 名称和密码吗？

**回答：**可以。用户修改好名称和密码后，需要拔电重启设备，并且关闭手机端的应用程序和 WIFI 连接。设备重启后，打开手机 WIFI 和应用程序重新连接。

**提问：**遇到 WIFI 无法连接应该怎么办？

**回答：**需要拔电重启设备，并且关闭手机端应用程序和 WIFI 连接。设备重启后，打开手机 WIFI 和应用程序重新连接。

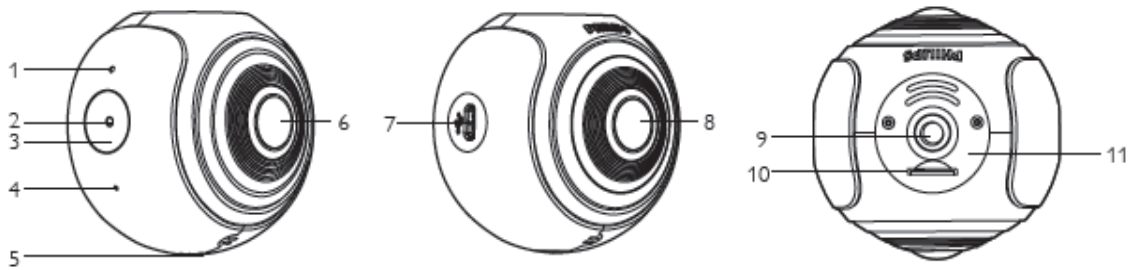
**提问：**所有型号的手机都支持空间下载技术(OTA)升级吗？

**回答：**目前空间下载技术支持 iPhone 在线升级，安卓版本手机的空间下载（OTA）目前只在华为手机上验证通过，其他的安卓手机没有经过测试，不保证支持该功能。

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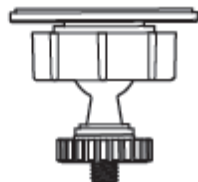
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# 1. Product overview



- 1. WIFI status indicator
  - Green light slow blinking: Waiting for connection
  - Green light on: WIFI connected
  - Green light fast blinking: Data transmitting
- 2. Record status indicator
  - Blue light on: Recording
  - Blue light off: Not recording
  - Breathing light blinking: Emergency recording

- 3. Emergency button
- 4. Microphone
- 5. Speaker
- 6. Rear lens (Interior facing)
- 7. Micro USB port
- 8. Front Lens (Road facing)
- 9. Screw socket
- 10. MicroSD card slot
- 11. Reset button



Bracket × 1



Charger × 1

## 2. Installation instructions

### Insert MicroSD memory card

Insert MicroSD card with the metal contacts facing to the front of device.



### Remove MicroSD card

Push to eject the MicroSD card out of the slot.

### About MicroSD card

- Please use MicroSD card with memory at least 32GB, Class 10 (capacity up to 128GB)
- Before its first use, the MicroSD card must be formatted inside the device, by using the device's menu on App.
- Below given recording duration is for reference only.

MicroSD Card Capacity	Recording duration
	Video Resolution : 2880x1440@30fps
32GB	250 minutes
64GB	500 minutes
128GB	1000 minutes

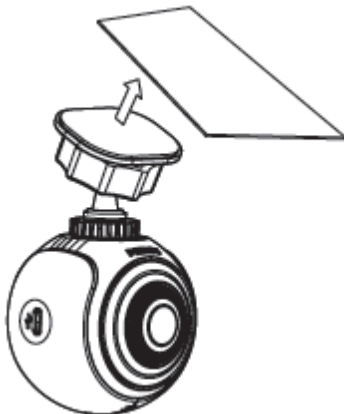
1. Attach the bracket to the device, screw it securely to socket.



2. Peel off the protective film from adhesive bracket.



3. Place and press the bracket firmly onto your windshield.

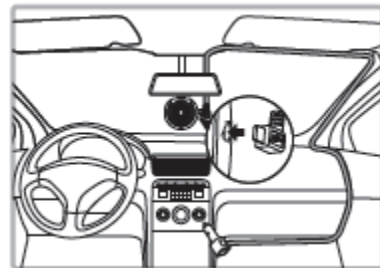


4. Adjust device position to ensure front lens faces forward, lock the plastic nut

then remove lens protection films on both lenses.



5. Connect micro USB cable to USB port on the device and plug the charger to the cigarette lighter socket of your vehicle, preferred installation position is below the backview mirror to support special viewing mode such as BabyZoomer.



6. Scan QR code to download and install GoSure App on your phone.



7. The device will turn on automatically when you start the engine. WIFI is also ON immediately, the name of WIFI is PHILIPS\_XXXX, the default password is 12345678. Please connect

WIFI and open your PHILIPS GoSure App, date and time will be synchronize to your device.

8. In case, the device is installed on the tripod (to be bought separately), the device will automatically switch image positioning, thanks to the 180 degree auto-rotation function.

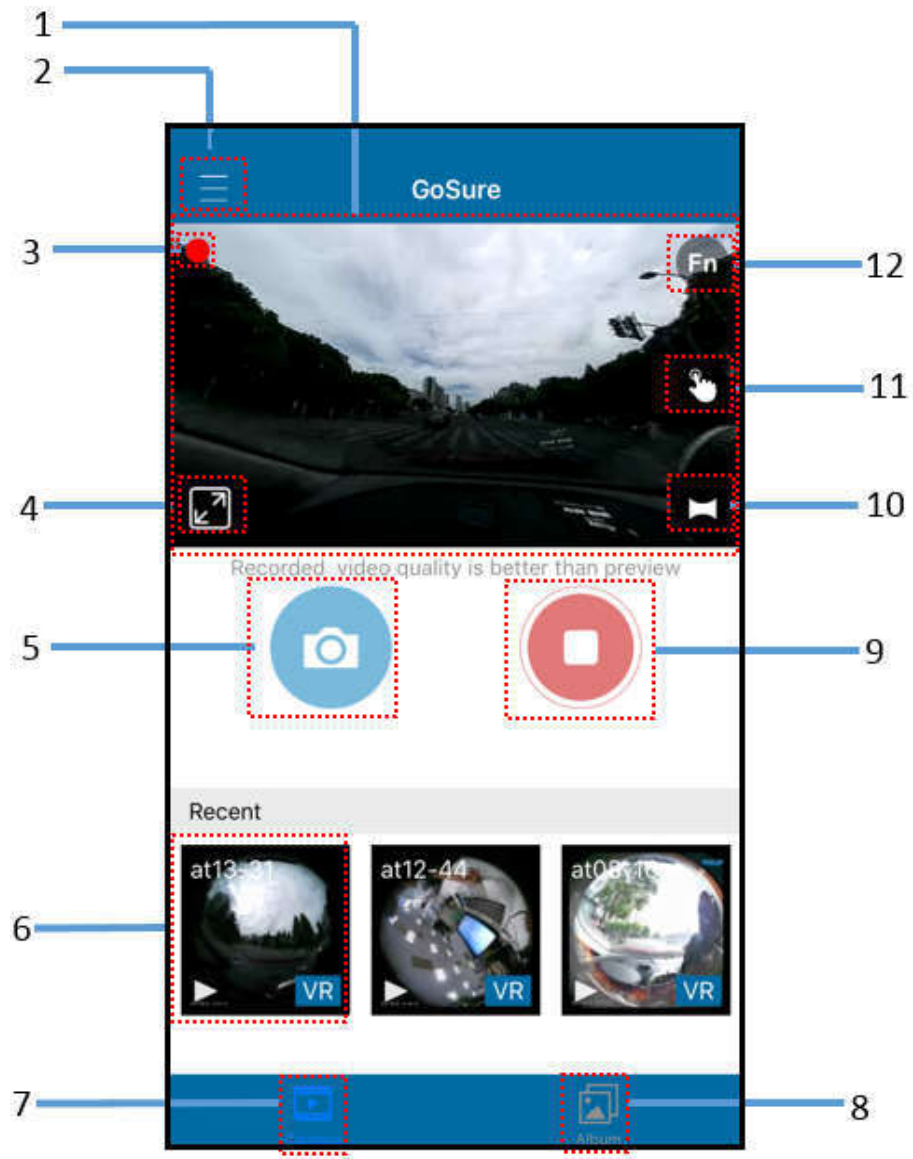
**Remark:**

1. Please use the dedicated car charger to avoid non-compliance with the product.
2. Recommend to disconnect the charger when the engine is off.
3. MicroSD card hot swap will cause system shutdown automatically, please do not take out or insert SD card when the device is working.
4. To remove MicroSD card, push to eject it out of the slot.



### 3. GoSure App User interface

User interface description as below :



No.	Function	Description
1	Live view display	Display live view from VR-ADR920
2	Menu	Tap Menu icon to enter menu settings.
3	Record status indicator	Icon blinks when start recording.
4	Full screen icon	Tap Full screen icon to enter full screen
5	Camera icon	Tap to take photos
6	Recent video file	Tap the file to replay the file
7	Camera tab	Tap live view tab to enter live view interface
8	Album tab	Tap to enter album
9	Start/stop play icon	Tap the icon to start or stop recording
10	View projection	Choose different angle of view
11	Field of view	Field of view of file changes according to angle of phone or adjustment by use's finger.
12	Function mode icon	Tap the icon to choose different modes

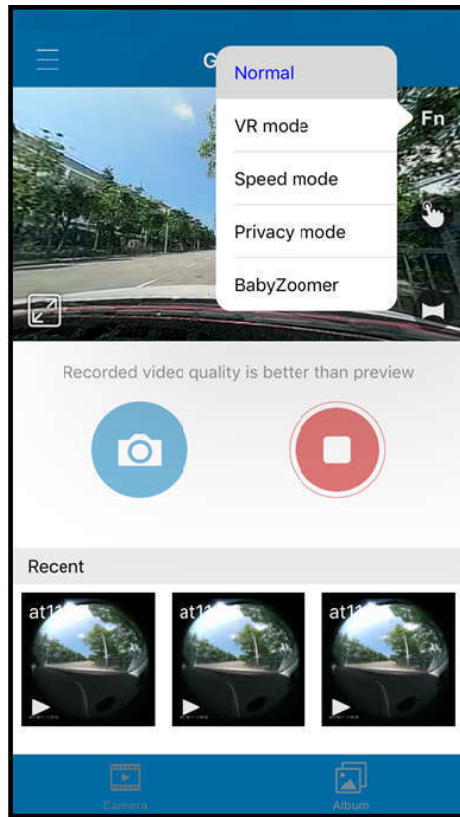
## 4. System setting and mode setting

Tap menu icon to enter menu list to display system settings below.



No.	Function	Description
1	Devices	User can change SSID and password of WIFI
2	Video	<p><b>Voice recording:</b> Switch on/off voice recording, default is On.</p> <p><b>Time stamp:</b> Add time information on recording file, default is On.</p> <p><b>EV:</b> adjust EV value, default is 0. Range can be set from -2~+2.</p> <p><b>WDR:</b> WDR ON/OFF, default is OFF</p>
3	SD card	<p><b>Status:</b> "Inserted" is shown when SD card is inserted.</p> <p><b>Format:</b> Format SD card.</p> <p><b>Caution:</b> *1). SD card must be formatted at the first time used in this device or reused from other device. *2).Please back up you files before format.</p>
4	Advanced	<p><b>Collision detection sensitivity:</b> Adjust the G-sensor sensitivity</p> <p><b>Driver Fatigue alerts:</b> Switch on/off fatigue driving alert function.</p> <p><b>Hotspot link:</b> Enable and connect to hotspot of phone, user can connect to device with WIFI and open data transaction at the same time. This function is only available for Android, OTA need to enable this option first.</p> <p><b>Automatic hotspot link:</b> enable and connect to hotspot of phone automatically. This function is only available for Android</p>
5	System	<p><b>FW Ver:</b> Display firmware version information of device</p> <p><b>Set Date:</b> Set system date and time. When App connects the device, date and time will be synchronized with smart phone.</p> <p><b>FW update:</b> Update FW for device, see section 5.4 for details</p> <p><b>Reset Default Setting:</b> Reset all device settings to factory default settings, please restart device after resetting default setting.</p>

Tap Fn icon to enter mode list to display mode settings below.



No.	Function	Description	Duration of each file
1	Normal	Default recording mode. 2880x1440@30fps, two lens can have separate Auto EV	1 min
2	VR mode	2880x1440@30fps, two lens can have separate Auto EV	5 min
3	Speed mode	1440x720@30fps, two lens can have separate Auto EV	3 min
4	Privacy mode	1440x1440@30fps, just front lens is available	1 min
5	BabyZoomer	2880x1440@30fps liveview will change to back seats and 2X zoom	1 min

## 5. Operating instruction

### 5.1 Power on/off and reset button

#### 5.1.1 Automatic power on/off and recording start/stop

Once the power of the vehicle is on, the device automatically turns on and start recording. If you disconnect car charger or cable, the device will stop recording and automatically turns off.

#### 5.1.2 WIFI ON and App synchronization

Once the device powers on, WIFI will turn on automatically and wait for connection. After App connects to device, date and time will be synchronized with phone. App language will be following smart phone setting.

#### 5.1.3 Reset device

Press reset button and reboot device to reset default setting.

### 5.2 Shortcut buttons

With MicroSD card inserted, every time device is powered on, it will automatically turn on and start recording with default recording mode, and user can follow operations below to trigger corresponding functions.

#### 5.2.1 Emergency recording button

Press emergency button to trigger emergency file recording. And the record status indicator will be blinking slowly.

### 5.3 Record video

#### 5.3.1 Normal video recording

With MicroSD card inserted, every time device is powered on, it will automatically turn on and start continuously recording with default recording mode. When the engine of the vehicle is off, video recording will stop automatically. Normal video recording file is saved in a NORMAL folder. And the file name is named with system time (hour, minute, second) as prefix.

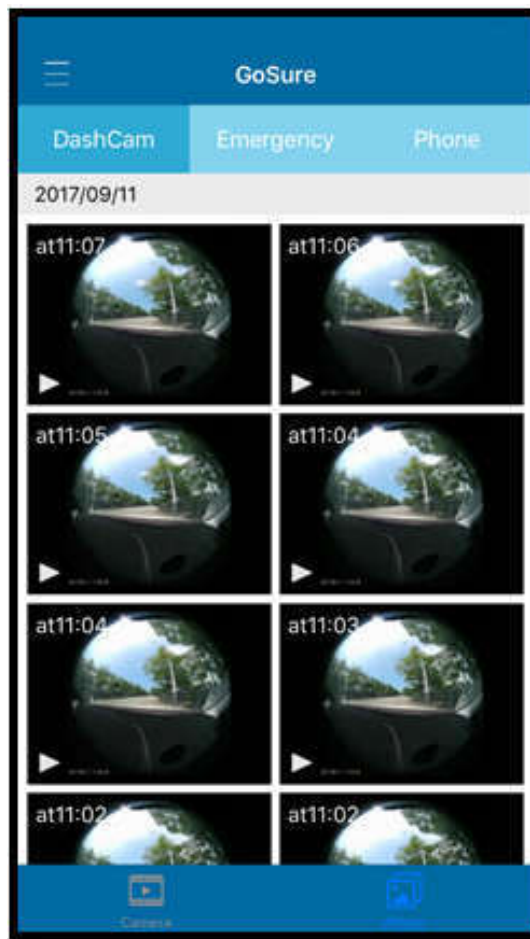
#### 5.3.2 Emergency recording

Emergency file will be automatically generated when user presses the emergency button or device detects collision event, it will be stored in EMGREC folder.

### 5.3.3 Video playback

Tap Start/stop play icon to stop recording, then tap **ALBUM** tab to enter album, user can select desired video to play.

DashCam	Emergency	Phone
Browse videos and replay, delete the video file. Besides, user can download videos to GoSure App album.	There are emergency file on device triggered by G-sensor or pressing emergency button by user. User can download to app and play it.	When the video file is downloaded to GoSure App album, user can play the video, delete and output to system album.



### 5.3.4 Exit video playback

Tap **Camera** tab, system will exit album to enter **Camera** interface.

## 5.4 Download and sharing of 360 videos using smartphones

### 5.4.1 Download from SD card

Using GoSure App, enjoy easy download from the SD card to you App with selecting video of your choice. You will see three options; download to APP, play and delete. Please select 'Download to APP' and the video will be saved to your App album.

Besides, video can be downloaded to PC from SD card and played by third party 360 degree video player, by which video is adjusted to any angle. It is suitable for enjoying video of office meeting or travel scenery by selfie stick.

### 5.4.2 Export to smartphone

Want to export a video from your GoSure App, select the video you want to export in your PHONE tab, choose "Export to phone". The App will be export a stitched 360 degree video file to your phone memory. In case you use Android smartphone, the file will be exported to **Philips/ADR/Export Videos**, whereas, for the iOS, you can find the file in the **Photo album**.

### 5.4.3 Sharing 360 videos on social network platforms

Sharing of a 360 dashcam videos made easy by GoSure. Simply export the videos to your phone album and simply upload to Facebook or YouTube. In case, the social network platform such as YOUKU suggest you to upload 360 degree file from PC/Mac first, please copy the stitched 360 video file from your phone album to your PC/Mac and upload the video on the YOUKU from there. Once the videos are uploaded on YOUKU. Please use YOUKU VR App to share the video link to various social media including WeChat and Weibo.

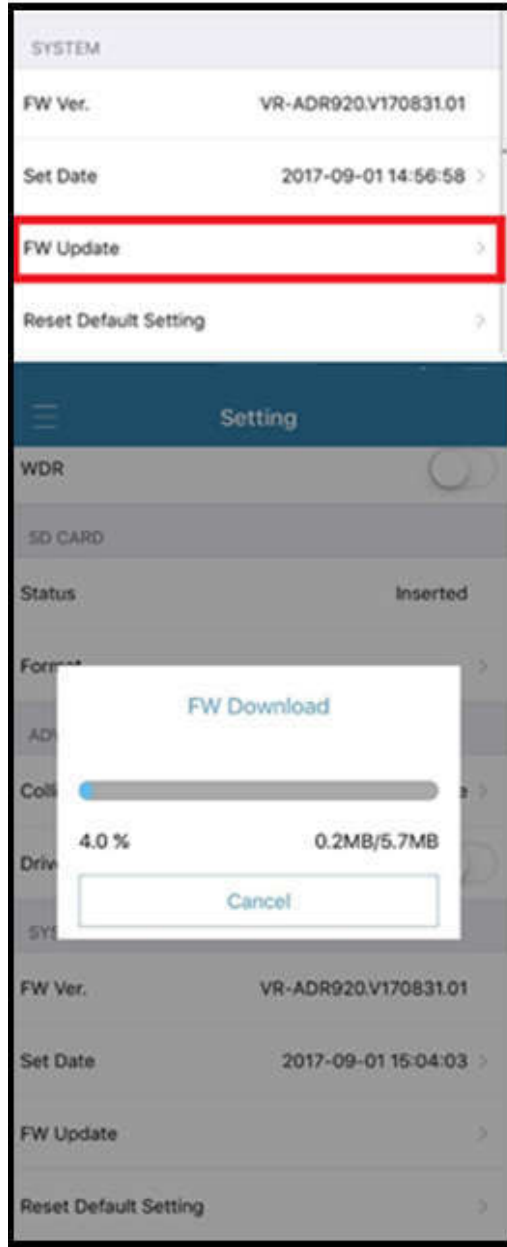
**Remarks:** For download and playback on PC/Mac, it is not recommended to copy directly from the MicroSD card. In such a case you will receive an unstitched video output.

## 5.5 OTA

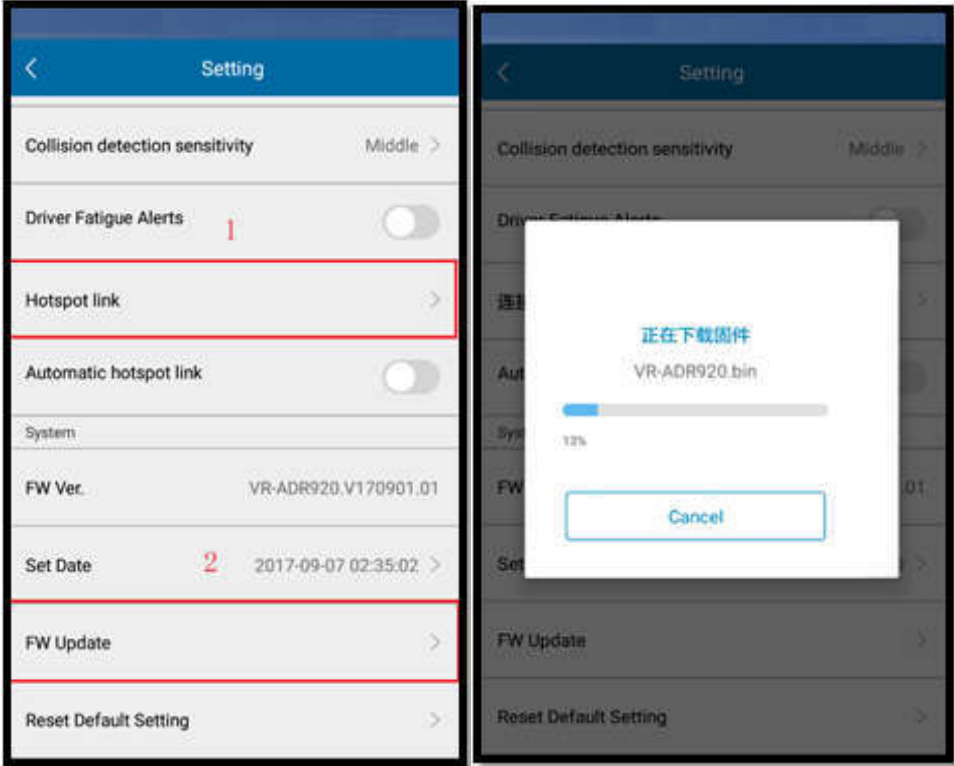
OTA is over the air upgrade your device firmware via your smart phone from Cloud. User can update firmware for device by OTA by themselves.

For iOS users, enter menu setting, tap the **FW Update** icon of **SYSTEM** sub-menu, it will update automatically for device after user agree update new firmware.





For Android users, first tap hotspot link, after device connects to phone successfully by speech reminder, tap FW Update and firmware will be downloaded and updated automatically.



**Caution:**

Please make sure your device and phone is always powered and data transaction of smartphone is enable during OTA update process. If update is failed, please try again.

## 6. Add-on function

### 6.1 Driver fatigue alert

To help drivers manage the evolution of their fatigue, a fatigue index is displayed to let driver know the value of driver's fatigue, taking into account physiological and journey related parameters such as time of the day and time spent on driving. When fatigue index is less than 60, the green value is displayed on phone until the value reaches 60 with an alert sound from device. Before fatigue index reaches 80, yellow value is displayed on phone. When fatigue index is above 80, red value is displayed on phone with 3 alert sounds from device. (When switch on driver fatigue alert function, users need set correct system time) When the function is switched off in GoSure App, fatigue index will not be displayed on phone screen.

## 7. Technical specification

Automatic functions	360° panoramic view Privacy mode Rear view live mirror Automatic recording Collision detection & emergency file protection Seamless loop recording Auto white balance Date and time stamp App supported Driver fatigue alert
Image Sensor	2x 4 Mega-pixels CMOS
Video resolution	3k (2880x1440p) @30fps
App controlled	iOS/Android
Wi-Fi	802.11 b/g/n 2.4GHz
Aperture Range	F/2.0
Fixed Lens	FOV 2x 190° fisheye lens, 7 glass elements
File Format	.MP4
Random Access Memory	2Gb DDR3
Internal Memory	8MB SPI flash
Recording media	MicroSD (Class10, Up to 128GB)
Max. Recording Time	1000min @128GB for 2880x1440@30fps
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-20°C ~ 70°C
Accessories	Car charger, 3M mounting bracket, Quick start guide
Interface	Micro USB 2.0
Languages	English, Simplified Chinese
Power	12V to 5V car adapter – output power: 5V/1.5A

## 8. FAQ

**Question:** Why do I experience different brightness level for each lens?

**Answer:** During day time, the sunshine is very bright, typically in case of a 360 camera this phenomena confuses the image sensor into making wrong calculation of the exposure value. In such a case you will experience a very dark in car video experience making it difficult to clearly see the objects inside the car. To enhance the in-car video experience, our device lets each lens calculate the level of brightness independently, so you can enjoy clear vivid images captured with your ADR device.

**Question:** What if I don't want to experience brightness difference?

**Answer:** In case you don't want to experience the in-car enhanced view, simply rotate your device 90 degree in horizontal direction. In this case the light exposure for both lens will become same and you will see the brightness level will change. This can be seen using LIVEVIEW interface on your GoSure App home page. Please feel free to further adjust the installation of your 360 device to a position, where you experience minimum brightness difference. You may also change the EV value using GoSure App to achieve further exposure accuracy.

**Question:** Why I cannot connect with device by smartphone?

**Answer:** Disconnect the power cable until the blue LED indicator is OFF, then re-plug the Micro USB cable to device to restart.

**Question:** How to keep a video file from been auto-erased by the device?

**Answer:** As a Dashcam, this device will automatically erase old video files from NORMAL and EMGREC folders once the files size in those folders reach its upper limits (which is automatically assigned by system accordingly to SD card size). You can choose VR MODE and SPEED MODE in your App before you take those videos you want to keep. Videos will be kept in VR or SPEED folders and will not be automatically erased. You will need to erase those files with you PC or choose "Format SD card" in your GoSure App to release memory.

**Question:** Why old MicroSD card used on other device can't be recorded on this device ?

**Answer:** MicroSD is Consumables and the file read write speed of old MicroSD card will decrease, so it's not recommended to use old MicroSD card on this product, please use new MicroSD card with Class10 above high speed to ensure product work.

**Question:** Can user change WIFI SSID and password?

**Answer:** Yes. After changing SSID and password, user need turn off device, disconnect WIFI and App on phone. Then power on device again and open WIFI to connect device. After successful connection, please open App to operate device.

**Question :** What should do if failed WIFI connection?

**Answer:** User need turn off device, disconnect WIFI and App on phone. Then power on device again and open WIFI to connect device. After successful connection, please open App to operate device.

**Question:** Do all phones support OTA?

**Answer:** iPhone can support OTA and Android Huawei can support OTA, other Android phones don't support OTA.



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