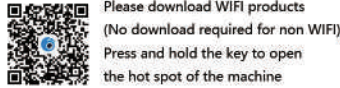




USER MANUAL

Exclusive 3 channels camera



Please download WIFI products (No download required for non WIFI) Press and hold the key to open the hot spot of the machine

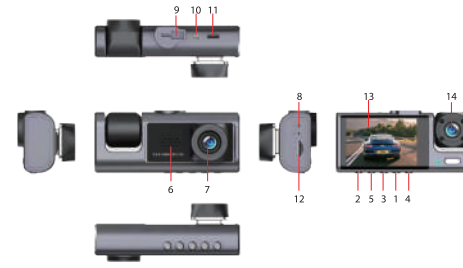
一、Product Specification

DDR	Built-in 64M
FLASH	8M SPI norflash
Display Screen	2.0 inch IPS HD screen
LCD resolution	800X480 pixels
External port	MINI USB 5V/2A power adapter port Max support 32G Class10 TF card 2.5mm digital 720P rear view lens port
Speaker	Monophonic 15*10mm speaker
MIC	4015 Standard Omnidirectional Microphone
Front camera	6-glass/F2.0/aperture/170° wide angle
Inside camera (optional)	VGA 120°
GPS tracker	NO
AV OUT	NO
Rear camera	6M cable/2.5mm port
Photo	Support
Lens rotates	Adjust manually
WDR	Support
HDR	Support
Reversing Visual	AVI
Video format	Support
Image format	JPG
Compression format	H.264
Battery	150mAh polymer lithium battery
Language	support multi-language
G-sensor	Support

Motion Detection	Support
Delay shutdown	Support
Loop recording	Support, Do not leak seconds
Sound record	Support
Fill light for night vision	Support (Open manually)
Parking monitoring	Support
Front camera resolution	Max 1680x960 (30f/s)
Inside camera resolution	HD640x480 (25f/s)
Camera resolution	Max support 3M

Working Environment	
Operating temperature	-40°C~70°C
Operating humidity	15-65%RH
Storage temperature	-40°C~70°C

二、Key Features (picture for reference only, mainly in kind)



- 1) Menu / Camera / Playback
- 2) Power button
- 3) Down
- 4) Confirm button
- 5) Up
- 6) Front camera
- 7) Microphone
- 8) Reset button
- 9) Holder interface
- 10) Rear camera interface
- 11) Power interface
- 12) TF Card slot
- 13) Display screen
- 14) Inside camera (optional)
- 15) Turn night vision on / off

【C】 Power button, short press to turn on/off screen, long press to switch on/off the device
 【M】 Menu / camera / playback button
 Press 【OK】 key to stop recording, press 【M】 to enter photo mode, press 【OK】 to take photo; in the camera mode, press 【M】 to enter playback mode, press 【OK】 key to playback, Lock function: in case of video recording, short press 【M】 for a key lock function to protect the current video file, and this file will not be covered by the cycle video in video mode, long press 【M】 to enter video menu settings as follows:

Recorder Menu	
1 Resolution	1080P FHD/720P/VGA
2 Loop recording	On/1minutes/2minutes/3minutes
3 High dynamic range HDR	on/off Improved image quality, Better visual effect
4 Exposure compensation	-3,-2,-1,0,1,2,3
5 Motion detection	on/off In standby mode, it will automatically record while a objective moves
6 Sound record	on/off Turn on/off sound record
7 Time stamp	on/off
8 Car number	on/off
9 G-sensor	High/Medium/Low sensitivity When car colour collision accident, it will lock current video and can't be covered
10 Parking monitor	on/off Unattended surveillance
11 Daterime	Adjustment Years months days/hours Minutes seconds
12 Automatic shut-down	On/3minutes/5minutes/10 minutes
13 Keypad tone	on/off
14 OSD language	Support multilingual Choose a language

15 Light source frequency	50HZ/60HZ	Choose the Light source frequency
16 format	Conf/m1 cancel	format TF card
17 Screen saver	Off/30seconds/1minute/1minutes	
18 Default setting	Conf/m1 cancel	
19 version	Machine software version number	

In photo mode, long press 【M】 to enter photo menu settings as follows:

1 Shooting method	Single shooting/2 seconds timer / 5 seconds timer / 10 seconds timer
2 Resolution	1M/2M/3M
3 Continuous shooting	on/off
4 Picture quality	High quality/standard/economy
5 Aperture	Strong/standard/soft
6 White balance	Automatic/sunlight/indoor/hungry lamp/fluorescent lamp
7 ISO	Automatic/100/200/400
8 Exposure compensation	-3, -2, -1, 0, 1, 2, 3
9 Time stamp	Off/ Date

【1】Down key, short press 【▶】 to select function at the Menu interface, short press button to turn on/off sound record at the shooting interface.
 【▶】to key 1, short press 【▶】to select function at the Menu interface; 2. In case of video recording, short press OK button to pause, then short press 【▶】button to switch front inside view image (require inside view lens); 3. long press 【▶】button to switch front rear view image; 4. In case of front rear view image, short press OK button to pause, then short press 【▶】button to switch front rear view image (require rear view lens).
 【OK】 Confirm button, short press to confirm in the menu interface, short press to video record on/off in the video mode.

Rear view lens (optional)
 In case of video recording, 4 pin plug of rear view lens insert AV-in hole of device, there's a rear view image in brightness of the screen, that means connected successfully, short press OK button to pause, long press 【▶】button to switch front view image. When hang up "R" gear, it will show full image of rear view

Note: This device can only support dual cameras to video record at the same time instead of 3 channels camera, that is front-inside camera or front-rear camera. If installed a rearview

camera and choose front-inside view mode, it will automatically indicate full image of car reversing visual when you hang up "R" gear, but won't affect front-inside video record, also will automatically switch back front-inside view after cancel "R" gear.
 As for system update to support 3 channels camera to video record at the same time, please prevail in kind and we're sorry for no further notice.

Reset key [RESET]
 If the recorder crashes and accidental operation is not a normal fault, press [RESET] to shutdown the device, then press [OK] to reboot the device.

Installation Notes

1. Please test the rear view camera firstly, if it works well then install (package without rear view lens can be ignored).
2. Turn off the car engine.
3. The TF card insert the recorder slot.
4. The recorder is a bracket fixed to the front windshield of the car.
5. Insert the car charger into the car cigarette lighter.
6. Install the rear camera at the rear of the vehicle, and pay attention to the up and down direction. Wiring can be buried along the edge of the car roof laying. [Note] There are two ways to install the rear camera:
 A. Adhesed on the glass above and behind the car, hands-on self-installation (Reversing visual function can not be achieved, only real-time recording rear video).
 B. To find a professional installation staff installed in the stereo plate above the camera at the same lens need to connect the power reversing lights (Reversing visual function can be achieved).
7. Adjust the lens position to ensure the best viewing angle.
8. Start the engine and check that the machine is operating properly.

Features

1. Use the automatic recording function.
 Start the car engine, the recorder automatically starts to open the recording function. Close the car engine, the recorder automatically saves the contents of the log and shuts down, recording video segments are stored on the TF card. When the TF card is full, the recorder will overwrite the oldest recorded image preferentially.
 [Note] a. Time segment of record can be set 1/2/3 minutes in the menu.
 b. The video individually saved in the folder named "DCBMA" and "DCMB" in TF card (package include rear view lens).
2. Use motion detection.
 In standby mode, enter the menu screen open the motion detection mode. When the lens is sensitive to the peripheral area of a moving object, the state machine into the camera, recording 30 seconds after the system stops recording. To exit the motion detection mode, in standby mode to enter the menu screen close motion detection mode.
3. G-sensor.
 The built-in gravity sensor (G-sensor), if serious vehicle collision, the recorder will lock the first 5 seconds and 10 seconds after the image date when the accident occurred while the bottom left of the display screen displays a lock icon. Locked images will be saved as a special file, the file name will be "LOCK".

will not be overwritten cycle.
 (note) Gravity sensor (G-Sensor) sensitivity adjustment support may actually need to change setting in the setup menu according to their image.
 5. The device has a key lock feature that will need to retain an image without being locked loop overwritten. In the video mode, short press 【M】 key logger will then lock the entire video image.

6. In shooting mode, Press the 【M】 key to enter the menu setting, find the date/time menu, short press the 【OK】 button to confirm and return to the setup menu settings, press the 【M】 key to exit the menu setting.
 [Note] In order to effectively record the date and time traffic safety accident forensics, before using the menu setting.

7. File playback
 In the playback mode, press the (OK) key to play back. To exit playback mode, Press MODE button again.

8. Reversing visual function
 First, you must connect the dvf with car charger, rear-view camera connect the reversing lights. Insert the car charger, machine will automatically start recording status, screen switch R position in the recording mode automatically switches to the rear-view camera, display reverse image. After reversing visual machine automatically return to video mode.
 Reminder: Please test the rearview camera is normal before installation.

9. Parking monitor (To achieve unattended surveillance video)
 To achieve this function must be connected to the machine in the case of electricity, in the main menu to open the motion detection and parking monitoring function, in the standby state of the vehicle under vibration or moving objects in front, the recorder according to G-sensor to sense automatically start the machine and automatically locks the video for 30 seconds, and automatically save the video file, the video 30 seconds after 5 seconds without the operation will automatically shut down.
 [Note] This function is only used when stopping. Please turn off the motion detection and stop monitoring function during normal driving.

FAQ

Machine appears "file error"	Settings menu-> Restore factory settings and format the memory card. The general problem is TF card
The screen appears horizontal stripes interference	Please select the correct power supply frequency 50HZ/PAL
How to properly turn on the 24-hour parking monitoring function	While in normal driving, please do not open it is easily lead to automatic shutdown or crash after parking is required to open, configure the back time or mobile power please

Night shooting screen is not clear enough	Recorder shooting depends on the outside strong light source (such as streetlights or car light)
The machine always reverts to the default date and time	Shutdown in the first case full of electricity, you can use car charger or mobile power supply to add power. (Turn off motion detection/ Turn on the loop recording function) With a certain choice of their own genuine card C10 high-speed card
Why during recording, the machine automatically shut down suddenly	Please turn off the parking monitoring function first/Ambient temperature exceeds 70 °C will cause automatic shutdown
[Note] Practice proof	Most of the problems sources from the memory card, a small part causes of power cord

The information provided in this manual is for reference only. Please prevail in kind (some special features depend on different models) . All rights reserved.



记录仪产品说明书

独家三路摄像头



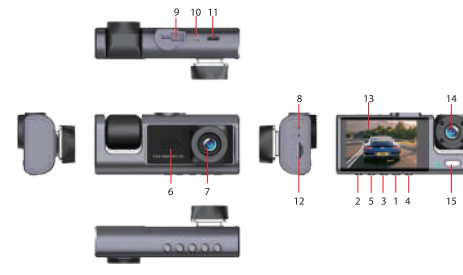
WIFI 产品请下载 (非 WIFI 无需下载) 长按下键打开机器热点

一、产品规格说明

DDR	内置64M
FLASH	8M SPI norflash
显示屏	2.0英寸IPS高清屏
显示屏分辨率	800X480 像素
前置镜头	MINI USB 5V/2A电源接口 最大支持32G Class10 TF卡 2.5mm三节数字后录摄像头接口
扬声器	8欧/瓦单声道15*10mm扬声器
MIC	4015标准指向麦克风
功能特性:	
前置镜头	6玻/F2.0光圈/170°广角
车后摄像头(可选)	VGA 120°
GPS轨迹	不支持
AV OUT	不支持
后视镜摄像头	6米线长/2.5mm接口
拍照	支持
镜头旋转	支持手动调整
动态范围调节	支持
HDR	支持
倒车全屏	支持
视频格式	AVI
图片格式	JPG
存储压缩方式	H.264
电池类型	150mAh聚合物锂电池
语言支持	支持多国语言
重力感应	支持

移动侦测	支持
延迟关机	支持
循环录像	支持不覆盖
录音功能	支持
夜视补光灯	支持(手动开启)
停车监控	支持
前置摄像头画质	最大支持1680x960 (30f/s)
拍照分辨率	最高支持3M
车后摄像头画质	HD640x480 (25f/s)
拍照分辨率	最高支持3M
工作环境:	
操作温度	-40°C~70°C
操作湿度	15-65%RH
存储温度	-40°C~70°C

二、按键功能介绍(图片仅供参考,以实物为主)



- 1) 菜单/拍照/回放键
- 2) 电源键
- 3) 下翻键
- 4) 确认键
- 5) 上翻键
- 6) 车前摄像头
- 7) 麦克风
- 8) 复位键
- 9) 支架卡口
- 10) 后视镜摄像头接口
- 11) 电源接口
- 12) TF卡槽
- 13) 显示屏
- 14) 车后摄像头 (可选)
- 15) 打开/关闭夜视功能

【O】 为开关机电源键, 短按静音, 长按为开关机。
 【M】 为菜单/拍照/回放键
 录像时短按【OK】键停止录像, 短按【M】进入拍照模式, 按【OK】键进行拍照; 拍照模式下短按【M】进入回放模式, 按【OK】键回放, 锁定功能: 在录像状态下, 短按【M】为一键加锁功能, 保护当前录像的文件, 且这个文件不会被覆盖。

录像时长按【M】进入菜单设置, 具体项目如下:

记录仪录像菜单	
1 分辨率	1080P FHD/720P/VGA
2 循环录制	关/1分钟/2分钟/3分钟
3 高动态范围HDR	开/关 更好的反映人真实环境中的视觉效果
4 曝光补偿	-3,-2,-1,0,1,2,3
5 运动检测	开/关 待机状态下有物体移动会自动开机录制
6 录音功能	开/关 打开或关闭同步录音
7 日期时间	开/关
8 车牌号码	开/关
9 重力感应	关/高/中/低灵敏度 剧烈晃动或碰撞后, 视频自动保存并不会被覆盖
10 停车监控	开/关 无人值守监控录像
11 日期时间	调整年/月/日/时/分/秒
12 自动关机	关/3分钟/5分钟/10分钟
13 按键声音	开/关
14 语言设置	简体中文/多国语

15 光源频率	50HZ/60HZ	光源频率选择
16 格式化	确认取消	格式化TF卡
17 定时关机	关/30秒/1分钟/2分钟	
18 默认设置	确认/取消	
19 版本	机器软件版本号	

拍照模式下长按【M】进入拍照菜单设置, 具体项目如下:

1 拍摄方式	单拍/2秒定时/5秒定时/10秒定时
2 分辨率	1M/2M/3M
3 连拍	开/关
4 图像质量	优质/标准/经济
5 锐度	强烈/标准/柔和
6 白平衡	自动/日光/阴天/钨丝灯/闪光灯
7 ISO	自动/100/200/400
8 曝光补偿	-3, -2, -1, 0, 1, 2, 3
9 日期标签	关/日期时间

【▶】为下翻键, 菜单界面下短按下翻选择, 录像界面短按, 录音开/关/关闭。

【▶】为上翻键
 功能一: 菜单界面下短按为上翻选择功能二: 录像时短按【OK】暂停再短按【▶】为车前摄像头后摄像头画面切换功能(不含车后摄像头则无此功能)
 功能三: 长按【▶】切换车前和后视镜摄像头画面功能; 功能四: 切换为车前和后视镜摄像头画面时, 短按【OK】暂停再短按【▶】为车前摄像头后摄像头画面切换功能(不含后视镜摄像头则无此功能)

【OK】为确认键, 菜单界面短按为确认, 录像界面短按为录像开启/停止切换功能。
 后视镜摄像头介绍 (若有此配置):
 在录像状态下, 后视镜摄像头镜头插入AV-IN, 屏幕会有一小块区域显示为后视镜画面, 表示已识别到后视镜, 短按【OK】暂停录像后, 长按【▶】可以在车前摄像头、后视镜

像头两种显示画面之间切换。当使用倒车档时, 自动全屏显示后视镜摄像头画面。

复位键 [RESET]
 如记录仪发生死机及意外操作不正常故障, 短按 [RESET] 可进入POWER OFF状态, 再短按 [OK] 重启机器。

安装说明

1. 请先测试好前后摄像头正常后再进行安装 (若有后视镜摄像头, 没有的可忽略), 关闭汽车发动机。
2. 将TF卡插入记录仪卡槽中。
 【注意】请使用高速TF卡 (Class10以上), 容量不小于4GB, TF卡最大支持32GB。
3. 将记录仪通过支架固定于汽车前挡风玻璃上。
4. 将记录仪电源线接入汽车点烟器。
5. 将车后摄像头安装在汽车后视镜上, 安装时注意上下方向, 有线可沿车辆侧边线路铺设。
6. 将前置摄像头安装在车前顶部, 安装时注意上下方向, 有线可沿车辆侧边线路铺设。
 【注意】车线时可用电线延长线沿汽车门框边缘和车内地毯下铺设。
7. 【注意】后置摄像头有两种安装方法:
 A. 吸附于汽车后视镜上方, 可自行动手安装 (无法安装倒车可视功能, 只能实时录制车后视频);
 B. 找专业安装人员安装于车牌照上方, 同时摄像头需连接控制车电源 (可实时录制车后视频)。

功能介绍

1. 使用自动记录功能
 启动汽车发动机, 记录仪自动启动并开启记录功能。
 关闭汽车发动机, 记录仪自动保存记录内容并关机, 记录的影像分段保存于TF卡上, 当TF卡存满后, 记录仪优先覆盖最早录制的影像。
 【注意】a. 记录的间隔时间可自行在菜单中设置, 范围为关闭和1/2/3分钟档。
 b. 记录仪录像分段保存于TF卡内DCIMA与DCMB文件夹中 (若有车后摄像头或者后视镜摄像头)。
2. 使用拍照功能
 在开机状态下, 短按【OK】键停止录像, 短按【M】进入拍照模式, 短按【OK】键可拍照, 如需切换回录像模式, 短按几次【M】键即可。
3. 使用倒车后视镜检测 (运动检测)

机器进入录像状态, 录像30秒后系统停止录像, 如需退出运动检测模式, 菜单界面关闭运动检测功能。

4. 重力感应功能
 本机内置重力感应(G-sensor), 如果发生严重车辆碰撞, 记录仪会锁定事故发生时的前秒和10秒的影像资料, 同时显示屏上方显示锁定的图标, 被锁定的影像会作为一个特殊文件, 这个文件不会被覆盖环。
 【提示】重力感应器 (G-sensor) 支持灵敏度调节, 可根据实际需要设置菜单中自行设定灵敏度。

5. 一键锁定功能
 本机具有一键锁定功能, 可将需要保护的影像锁定而不会被覆盖。在录像模式下, 短按【M】键记录仪会将当前帧段的视频影像锁定。

6. 日期及时间设置
 录像时长按【M】键进入菜单设置, 找到日期/时间菜单, 短按OK键进入, 设置正确后按【OK】键保存, 最后短按【M】键退出菜单设置。
 【注意】为了有效记录和取证, 在使用本机前请立即设置正确的日期和时间。

7. 文件回放
 回放模式下按【OK】键回放, 如需退出回放模式, 再次短按【M】键。

8. 倒车可视功能 (后视镜摄像头为可选配件)
 首先, 必须车连接好记录仪, 拉线摄像头上线红绿蓝连接线, 插车充电器会自动启动录像状态; 在录像模式下切换屏幕屏屏自动切换到后视镜画面, 显示倒车影像, 倒车可视摄像头会自动切换录像模式。
 【注意】: 请先测试好后视镜摄像头正常后再进行安装。

9. 停车监控模式 (实现无人值守监控录像)
 实现这个功能必须在本机连接常电的情况下, 在主菜单中打开运动检测和停车监控功能, 在待机状态下车受到震动或者前方有物体移动时, 记录仪可自动感应压力模块G-SENSOR来感应, 自动启动机器并自动锁定录像30秒, 且自动保存录像文件。

常见问题

机器出现“档案错误”的提示	设置菜单->恢复出厂设置格式化内存卡, 一般是TF卡的问题
画面出现横条纹干扰	请选择正确的供电频率50HZ/PAL
如何正确开启24小时停车监控功能	正常行驶时, 请不要开启, 容易造成自动关机或死机; 停车后才需要开启, 请配置高压或移动电源

夜间拍摄的画面不够清晰	记录仪拍摄依赖于外界较强的光源 (比如路灯车灯), 行车记录仪如此
机器总是恢复默认日期和时间	关机的情况下先充完电, 可以用车充电器或者移动电源给记录仪充电
录像文件出现删秒, 是什么原因	【请关闭运动检测功能/打开循环录像功能】自行删秒的一定是用户自己10高速卡, 低速卡可能会导致自动关机
为何录制过程中, 机器一下子自动关机	请先关闭停车监控功能/车环境的温度超过70°C会导致自动关机
【注意】实践证明	大部分问题跟存储卡有关, 小部分跟电源线有关

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