CONTENTS

WHAT'S IN THE BOX

- Car Recorder
- USB Cable
- Bracket
- Car Charger
- Instruction Manual

SAFETY PRECAUTIONS

Before using the device, please refer to instructions below:

⚠️ INSTALLATION SAFETY WARNINGS

- Failure to comply with the following warnings could result in an accident or collision, resulting in death or serious injury.

- Do not obstruct the driver's view or the operation of the vehicle itself.

- Do not place it unsecured on the dashboard or in front/ above an airbag.

- Do not mount the camera where it will become a distraction if it becomes loose.

- Do not attempt to operate the camera while driving. If you like to change the device settings, kindly do so safely when the vehicle comes to a halt.

⚠️ **INSTALLATION SAFETY INSTRUCTIONS**

Install the device in the area around the rear view mirror.

- Be sure the device is installed where the windshield wipers can clear the windshield in front of the lens.

- Do not install on colored or heavily tinted windshield. The coloring may affect recording quality.

- Clean the windshield area where you plan to install the bracket. Be sure it is clear of dust and dirt.

PRODUCT OVERVIEW

Overall Dimensions: 88mm × 50.3mm × 29.39mm

Weight: 388g

(1) Power Button
(2) SOS Emergency Button / Parking Monitoring Button
(3) Menu Button / Mode Button
(4) Up Button / Recording Button
(5) Down Button / Motion Detecting Button
(6) OK Button / Time-lapse Video Key
(7) Reset Button
(8) Microphone
(9) Indicator Light
(10) Display Screen
(11) SD Card Slot
(12) USB Interface
(13) Loudspeaker
(14) Camera Lens
(15) Support Interface

PRODUCT FEATURES

- 1080P high resolution with 140 degree wide-angle lens.

- Super Night Vision enable better and clearer night recording.

- Loop video recording function automatically deletes old files to record new ones.

- Automatic power-on and video-recording function upon the start of the vehicle.

- Powered by a 3D G-Sensor gravity sensor chip - In the event of a vehicle collision, this driving video recorder will automatically lock the video footage (protected and not be overwritten) of the previous 10 seconds and the latter 20 seconds of the accident.

- Parking monitoring mode protects our vehicle at all times during parking.

- Time-lapse video recording enables the user to conduct long-time high-efficiency video recording with the minimum memory space after leaving the vehicle, and monitor the surrounding situation of the vehicle. (the driving video recorder needs to be provided with power supply all the time).

PRODUCT TECHNICAL SPECIFICATIONS

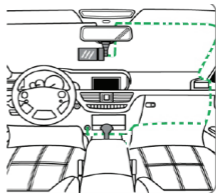|	
LCD Screen Size	2.7 inches, 16: 9 high definition display screen
Camera Lens	A+ grade high resolution, wide angle fish-eye lens
Video Resolution Ratio	1920×1080P 30FPS, 1280×720P 30FPS, 640×480 30FPS
Video Format	AVI
Photograph Resolution Ratio	5MP, 3MP, 2MHD, VGA
Photograph Format	JPEG
G-sensor	Built-in
SD Memory card Slot	Micro SD
Memory Card Capacity	Support up to 64GB (Class 10 recommended)
Microphone / Loudspeaker	Built-in
Light Source Frequency	50Hz/60Hz
USB Interface	USB2.0
Power supply Interface	DC5.5V 1A

Battery	Built-in lithium polymer battery
System Requirement	Windows 2000/XP/Vista/Windows 7
Language	English /Simplified Chinese /Chinese Traditional

Note: HELLA reserves the rights of modification for design and specifications without further notice. If there is any difference, please subject to the actual device.

GETTING STARTED

EQUIPMENT INSTALLATION - PREPARATION FOR INITIAL USAGE

1. Please fix the vehicle power line according to the diagram below to avoid blocking visibility during driving.

It is better that the driving video recorder be fixed at the front of the interior mirror to have a better recording angle.

2. Please do not install the driving video recorder at any place that may distract the attention of the driver.

3. For some vehicles that are still battery powered during parking mode, it is recommended to disconnect the power source to prevent draining of battery.

MEMORY CARD OPTION

1. Please use SD card of Class 10 (8GB-64GB) to guarantee better quality and complete recording.
2. Please format SD card before first usage.

Card Capacity	1080P Video Recording Time
32GB 16GB 8GB	280 minutes 140 minutes 70 minutes
The above data is for reference only	

MEMORY CARD FORMATTING

1. All data on the MicroSD card will be deleted.
2. Data is irrecoverable after formatting. Please make a backup copy of the videos and photos before formatting the MicroSD card.
3. MicroSD card is recommended to format every 1-2 months for function stability.

SOFTWARE SETTING

LANGUAGE SETTING	From main menu, press the up/down button to select "language selection", and enter OK button. Press the up/down button to select language required, and enter OK button.
TIME SETTING	- From main menu, press menu button to enter into the menu setting interface. - Press the up/down button to select "system setting" menu, enter OK button. - Press the up/down button to select "clock setting" option, enter OK button. - Press the up/down button to set the current option, enter OK button, exit after completion.
3. **Other individualized settings can be conducted under the menu process as above.** **Remark:** For safety reason, the setting function of the menu button shall only be operated when vehicle comes to a complete stop.	

MAIN FUNCTIONS AND BASIC OPERATIONS OF THE DEVICE

DEVICE POWER ON/OFF MODE

Normal Driving Mode	Connect the vehicle power supply. After starting the vehicle, the device automatically turns on and conducts video recording. It will automatically turn off after parking of vehicle.
Manual Mode	The device can be turned On or Off via the on/off power switch.

PARKING MONITORING MODE

This device has two parking monitoring mode which are **P mode** and **T mode**. The specific application and instructions are as follows:

P Mode (vibration start)	Shortly press the parking monitoring button, and the vibration start-up function will be activated upon vibration, and an icon of will be displayed on the screen. Start this function, and if the vehicle experience collision after power-off, the driving video recorder will automatically start recording. If during this period the vehicle constantly experience vibration, this icon will turn red and record for 30 seconds.

T Mode (Time-lapse photography) time-lapse video recording	Hold the OK button to start or stop the time-lapse video recording function. An icon of will be displayed on the screen after this function is started. The video recording will continually snap at the speed of 1 shot per second, and later will be played at the speed of 30 shots per second. As the device needs to work constantly during the process, external power supply will be needed.

VIDEO RECORDING MODE

After starting up, video recording will commence. Video recording can be operated by pressing the OK button.

Motion Detection Video Recording	The driving video recorder will detect the object in the front after activating this function. If there is no further motion detected, video recording will stop. If other motion is detected, video recording restarts. This function allows for better memory space usage of SD card.
Looping of Video Recording	If the SD card is full, unprotected files will automatically be deleted and replaced in order to make more memory space for next recording.

Urgent File Protection	This device is equipped with vibration sensing components. When vibration is detected, this device will automatically lock the video recording file to prevent it from being replaced.
SOS One Button for Locking	Besides the automatic protection method, this device is also equipped with a manual protection method. During video recording, if the customer deems it necessary and safe to protect the current video recording, he/she can press the SOS emergency button for manual protection. Pressing SOS button again will de-activate the current file protection.

PHOTOGRAPH MODE

Under the video recording mode, hold the menu button for 3 seconds to enter the Photograph Mode. Enter OK button to take one photo. Press menu button to enter main menu selection for option setting including image size, AWB (picture contrast), image quality, exposure adjustment and photo sensitivity, etc.

PLAYBACK MODE

Under the stop status of video recording, press the Playback Mode button twice to switch to Playback Mode. Under the Playback Mode, press the menu button for a list of operation

including volume adjustment, delete, delete all files, protect and cancel a single file. If the current file is a video file, press OK button for play or pause on this device, press the Up/Down button for the fast forward/ fast backward operations, press the menu button to stop and quit the current video playing.

FILE MANAGEMENT

File Naming Method	The video and photo naming of this device is date + time which is convenient for tracking.
Classification and Management of Files	The files generated by this device will be classified according to different modes. Normal video recordings and images will be saved by establishing folders according to the date, e.g., files generated on Jan. 01, 2015 will be saved in folder 20150101. Files of G-SENSOR locked due to vibration will all be saved in Folder EVENT. And the files generated by starting the time-lapse video recording will be saved in Folder PARK.

SPECIFICATIONS FOR SHORCUT KEY FUNCTIONS

Under the Video Recording Mode:
hold the menu button to enable switchover among video/photo/playback modes.
press the Up button to start/stop the recording.
press the Down button to start/stop the motion detection function.
hold the OK button to start/stop time-lapse video recording function.
press the SOS emergency button to start or close the parking monitoring function.
press the SOS emergency button to manually protect (cancel the protection) the current video.

Note: The on-state is "" under the menu setting and the off-state is "".

DISCLAIMER
- This device is NOT intended to be used for illegal purposes; surveillance and shall not be used in any form as evidence for claim purposes.
- Some countries prohibit drivers from mounting anything on the windshield, or restrict mounting to specific areas of the windshield. It is the owner's responsibility to mount the device in compliance with local laws.
- Errors may occur depending on the surrounding environment and the voltage of the car.
- Company is not liable/responsible for non-recorded event, missing files, etc.

目录

包装盒中有哪些内容

- 车载录影机
- 车载充电器
- USB电缆
- 使用说明书
- 支架

安全须知

使用设备之前，请参阅以下说明：

⚠ 安装安全警告

- 不遵守以下警告可能导致事故或碰撞，导致死亡或严重伤害。

- 不要妨碍驾驶员的视线或车辆本身的操作。

- 不要将其放在仪表板上或气囊前面/上面。

- 如果相机松动，请勿将相机安装在会分心的地方。

- 在驾驶时不要试图操作相机。如果你想更改设备设置，当车辆停止后，才安全地操作。

⚠️ 安装安全说明

将设备安装在后视镜周围的区域。

- 确保设备安装在挡风玻璃刮水器可以清除镜头前的挡风玻璃的位置。

- 不要安装在有色或重度着色的挡风玻璃上。 着色可能影响记录质量。

- 清洁计划安装支架的挡风玻璃区域。 确保它没有灰尘和污垢。

产品信息

产品概述

产品外形尺寸：88mm×50.3mm×29.39mm（长*宽*高）
重量：388g

(1) 电源键
(2) SOS紧急键/停车监控键
(3) 菜单键/模式键
(4) 上键/录音键
(5) 下键/移动侦测键
(6) 确认键/缩时录影键
(7) 复位键
(8) 麦克风孔

(9) LED指示灯
(10) 显示屏
(11) SD卡插槽
(12) USB接口
(13) 扬声器孔
(14) 镜头
(15) 支架接口

产品特性

- 1080P高分辨率与140度广角镜头。
- 超级夜视使更好和更清晰的夜间记录。
- 循环视频录制功能自动删除旧文件以记录新文件。
- 汽车发动自动开机录影功能。
- 由3D G-Sensor重力传感器芯片提供支持 - 在车辆碰撞的情况下，本驾驶录像机将自动锁定前10秒钟和后20秒钟事故的录像（受保护且不被覆盖）。
- 增加更多停车监控模式，全方位，全时段看守你的爱车。
- 缩时录影，用户可启动此模式，在离开汽车后，以最小的存储空间进行长时间高效录影，监控车子周边状况。（需一直给机器供电）。

产品技术规格

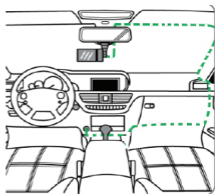|	
液晶屏幕尺寸	2.7 英寸，16：9 高清显示屏
镜头	A+ 级高解析度广角鱼眼镜头
录像分辨率	三种分辨率 1920×1080P 30FPS、1280×720P 30FPS、640×480 30FPS
录像视频格式	AVI
照片分辨率	四种分辨率 5MP、3MP、2MHD、VGA
照片格式	JPEG
G-sensor	内置（汽车意外情况下紧急保存，不被删除）
SD 存储卡槽	Micro SD
存储卡容量	最大支持 64GB (CLASS 10推荐)
麦克风/喇叭	内置
光源频率	50Hz/60Hz
USB 接口	USB2.0
电源接口	DC5.5V 1A
电池	内置锂聚合物电池
系统要求	Windows 2000/XP/Vista/Windows 7
语言	英语/简体中文/繁体中文

注意：HELLA保留设计和规格更改权，恕不另行通知。如有不同处请以实物为准。

入门指南

设备安装 – 初次使用准备

1. 请按具体车内环镜，固定好
车载电源线，以免影响行车
视线。

记录仪尽量装在车内后视镜
前方位置，取得的视角更全
面。

2. 请勿将设备安装在分散驾使员注意力或会阻挡视线的
位置。

3. 有部分车型在熄火后仍有供电给设备.在离开车子时，
务必要把车载电源拔出，以避免发生意外情况。

储存卡选配

1. 请使用 Class 10 (8GB-64GB)
的 SD 卡，为保证更完整
的记录。

2. 首次使用SD卡前，请用
本机先进行格式化。

卡容量	1080P录影时间
32GB	280 分钟
16GB	140 分钟
8GB	70 分钟
以上数据仅供参考	

储存卡格式化

1. MicroSD卡上的所有数据都将被删除。

2. 格式化后数据不可恢复。请在格式化MicroSD卡之前备
份视频和照片的副本。

3. 建议MicroSD卡每1-2个月格式化一次，以确保功能稳定。

软件设定

语言设定	按菜单键，进入主菜单，按上下键选择"语言选择"菜单，按确认键进入，按上下键选择所需的语言，按确认键保存。
时间设置	- 首次使用时，短按菜单键进入菜单设置界面。 - 按上下键选择"系统设置"菜单，按确认键进入。 - 按上下键选择"时钟设置"选项，按确认键进入。 - 按上下键设置当前选项，按确认键进入下一选项，直至完成退出。

3. 其它个性化设定，可进相应模式菜单及系统设置菜单下进行。

备注：菜单键设置功能需要在录像停止时操作使用。

设备的主要功能及基本操作

设备开启/关闭模式

正常行车模式	连接好车载电源，车辆启动后，机器自动启动，并进行录影。车辆熄火后自动关机。
手动模式	可以手动按电源键，对机子进行开启或关闭。

停车监控模式
本机有两种停车监控模式分别为 P 模式和 T 模式。具体应用及说明如下：

P 模式 （振动开机）	短按停车监控键，可以开启或关闭振动开机功能，屏上会显示 ⊚。开启此功能，在关机后，如果汽车受到碰撞，机器会自动开启并录影。如果在此期间车子持续受到振动，此图标会变成红色。振动停止30s后，机器会自动关机。此模式使用本机电池启动。

T 模式 (Time-lapse photography) 缩 时录影	长按确认键可以开启或关闭缩时录影功能。开启此功能后屏上会显示 🅿。录影视频会以每秒一张的速度进行连续摄影，之后以每秒 30 张的速度播放。 因为过程中机器需要一直工作，需要使用外部电源。

录影模式

开机后，自动启动录影，可以按确认键停止录影及重新启动录影。

移动侦测 录影	开启此功能后，记录仪会检测前方的物体，如果没有变化就会停止录影，有物体移动变化后，又会重新录影。使得你的录影文件更有使用价值，磁盘空间利用率更高效。
循环录影	当 SD 卡录满后，再录影时会自动覆盖未加保护的最早文件。
紧急文件 保护	本设备带有重力感应器件，当车辆出现一定程度的振动，机器会自动对当前录影进行加锁保护，以免被覆盖。

| SOS一键加锁 | 除了自动保护方式，本机还提供了一个手动保护方式，在录影过程中，如果客户认为当前录影需要进保护，可按SOS紧急键一下，进手动保护。再按一下，则会取消当前文件保护。 |

拍照模式

在录影模式下，长按菜单键一次，进到拍照模式，按确认键可以拍照一张。短按菜单键进到主菜单，选择图像拍摄选项，按确认键进入，可以进行图像尺寸、AWB、图像质量、曝光调整、感光度等多种菜单选项设置。

回放模式

在停止录影状态下，长按模式键两次，切换到回放模式下。回放模式下，按菜单键，可以进行音量、删除、删除所有文件、保护及解除单档五项操作。如果当前是视频档案时，按确认键可以进行本机播放或暂停，按上下键可进行快进、快退操作，按菜单键停止并退出当前视频播放。

文件管理

文件命名方式	本机视频及照片的命名是以日期+时间的方式命名，方便用户查询。
文件归类管理	本机所产生的文件会按不同的模式进行分类。正常录影及照片会按日期建立文件夹进行存放，如2015年1月1日所产生的文件会放在20150101文件夹下。 G-SENSOR因振动触发加锁的档案会统一放在EVENT文件夹下。而启动缩时录影所生成的档案会存放在PARK文件夹下。

快捷键功能说明

在录影模式下：
长按菜单键可进行录像/拍照/回放模式循环切换。
短按上键可以关闭或开启录音。
短按下键可以开启或关闭移动侦测功能。
长按OK键可以开启或关闭缩时录影功能。
短按SOS紧急键可以开启或关闭停车监控功能。
短按SOS紧急键可进行手动保护（解除保护）当前视频。

注意：菜单设置下开启状态为" "，关闭状态为" "。

免责声明

- 此设备不用于非法目的；监视，不得以任何形式用作提出索赔的证据。
- 一些国家禁止驾驶员在挡风玻璃上安装任何东西，或者限制安装到挡风玻璃的特定区域。根据当地法律安装设备是用户的责任。
- 根据周围环境和汽车的电压可能会发生错误。
- 公司对未记录的活动，缺少的文件等不承担责任。