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**PLANETWORLD**  
Life Amplified AUTO | HOME

**Smart Mirror**  
With **DVR** & **Reverse Camera**

## 1. Product specification

Processor and memory characteristics :	
Processor type	MSTAR (MSC8336) ARM Cortex A7 800MHZ
DDR	Built-in 512M
FLASH	8M SPI norflash
Display	<input type="checkbox"/> 6.86" <input type="checkbox"/> 9.35" <input checked="" type="checkbox"/> 9.66" <input type="checkbox"/> 9.88"IPS HD screen
Display resolution	<input type="checkbox"/> 1280*480 <input type="checkbox"/> 1280*320 <input checked="" type="checkbox"/> 1600*400pixel
External port	MINI USB 5V/2.5A Power interface
	8G-128G 10class TF card
	3.5mm Three segments GPS Interface
	2.5mm Three segments number VGA Rear camera interface
Speaker	8 euro 1 watts Mono loudspeaker
MIC	4015 Standard full direction Microphone
Functional characteristics :	
Front camera	SONY chip / 200 ten thousand pixels 1920*1080P/6Glassy / F/NO : 1.40 / 170 Oblique angle / 17 (Outer ring diameter) x22.5 (height) (Wide Dynamic Range)
Rear camera	Starlight night vision, Strong light suppression, Waterproof 1280*1080P
AV OUT	Does not support
FM launch	Does not support
Photograph	Supports
Lens rotation	Manual mechanical trimming
Dynamic range adjustment	Supports
HDR	Does not support
Full screen	Supports
Camera angle	Front camera 170° Wide-angle, Rear camera 143° Wide-angle
Video format	MOV
Picture format	JPG
Storage compression mode	H.264
Language support	Supporting multiple languages
Gravity Induction	Supports
Move investigate	Does not support
Delayed Turn off the machine	Supports
Circular video	Supports with no seconds missing
Recording function	Supports
Night vision light	Does not support
Parking monitoring	Supports
Video quality of front camera	HD1920x1080 (30f/s) 60Hz; HD1920x1080 (30f/s) 50Hz
Camera resolution	Highest resolution is 12M
Work environment :	
Operating temperature	-20℃ ~ 70℃
Humidity operation	15~65%RH
Storage temperature	-30℃ ~ 80℃

## 2. Introduction of key functions (Images are for reference only)

### 6.12 Language choice

Menu setup interface - Users can choose languages according to their needs. This machine supports English, simplified Chinese and traditional Chinese.

### 6.13 Volume

Menu setup interface - Users can choose the volume according to their needs.

### 6.14 Scintillation frequency

Menu setup interface - The user can select the light frequency according to their needs. This machine supports 50/60 Hz.

### 6.15 Date / Clock

Menu setup interface - Users can click on the date clock to set it up. After setup is complete, press the key to exit.

#### 【Attention】

To accurately record the date and time of driving incidents, adjust the time immediately after receiving this product.

### 6.16 Format SD card

Menu setup interface, Users can format the current SD card.

### 6.17 System reset

After the user selects this function, all system menu options, except for date and time, will be restored to the factory settings.

### 6.18 Firmware version

Firmware version displays in formation such as software parameters, time and display. Users are not able to change these settings.

## For technical support contact:

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Click the home page  icon to enter the setup menu:

### 6.1 Record a video scene

Menu setup interface - Users can choose resolution as 1080P or 720P for videos. This setting is for the front facing camera only. The rear camera is standard at 1080P.

### 6.2 Video Files

Menu setup interface - The user can choose the length of video files. This machine supports 1, 3 and 5 minute file lengths.

### 6.3 Night mode

Menu setup interface - Select night mode to dim the screen for night driving.

### 6.4 Adjusting exposure

Menu setup interface - Users can increase the exposure intensity of the front camera.

### 6.5 ADAS mode (optional)

Select the ADAS function for pre-collision distance warning, track deviation warning and supplementary traffic safety function.

### 6.6 Parking Monitor Option

If turned on the camera function will remain activated after turning the vehicle off. The machine will shut down however the camera will continue to record at 1 frame per second. Please note that this function will affect battery power so please choose carefully as it will drain the battery. The product does have voltage and electricity protection function built-in, but it is not full proof.

### 6.7 Reduced Video Time Option

After turning the vehicle off, the recording function remain on if activated. This product supports 2, 8, 12 and 24 hours recording time after the vehicle has been turned off. Please note that this function will affect battery power so please choose carefully. The product does have voltage and electricity protection function built-in, but it is not full proof.

### 6.8 Automatic Screen Brightness

Menu setup interface – If selected the screen will automatically be darker at night and brighter during the day.

### 6.9 Collision Detection

This product has a built-in collision sensor (G-sensor). If there is a serious vehicle collision, the recorder will lock the current image data at the time of the accident. At the same time, the upper right corner of the display will display the locked Icon. The locked file will be saved as a special file. This file will not be recorded over by recording cycles.

#### 【Tips】

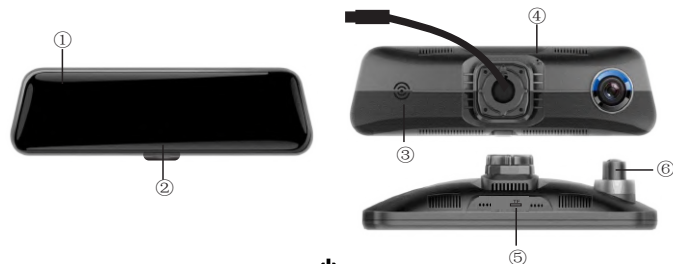
- The locked video files are named EMER. The general recording files start with FILE.
- Gravity sensor (G-sensor) supports sensitivity adjustment. The user can adjust the sensitivity of the G Sensors in the settings menu.


### 6.10 Parking monitoring

If turned on the recorder will be activated when the G Sensors detects an incident while the vehicle is turned off. It will automatically record for 30 seconds then turn off. This video file will be locked. The locked file will be saved as a special file. This file will not be recorded over by recording cycles.

### 6.11 Screen protection

Menu setup interface - Users can choose for the screen to automatically turn off after 1, 2 or 3 minutes after starting to drive. This feature will allow the screen to have a longer life.



1. IPS TFT
2. Power key  key
3. Speaker
4. Restore factory settings **【RESET key】**
5. SD Card slot
6. Front camera

### 2.1 Power key key

**Function 1: on / off**

When shutdown, a short press of the power key will make the screen boot up. A long press of the power key (3 seconds) and the machine will automatically save video files and close them.

#### **Function 2: Turning the screen off**

While the machine is running, press the power key to turn the display off and enter the power saving mode. When in power saving mode, press the power button again and the screen display will turn on.

### 2.2 Reset

To reset the machine, press the reset button which will switch the screen off. Press it again and the machine will restart.

## 3. Installation instructions

3.1 Turn off the car engine.

3.2 Insert SD card into SD card slot.

**【Attention】** Use a high-speed SD card (Class10 Above) with a capacity of no less than 512MB. 32GB SD cards are best supported.

3.3 The recorder is fixed on the original rear view mirror of the car.

3.4 Insert vehicle charger into car cigarette lighter.

3.5 The USB interface of the recorder is to be plugged into the charger of the vehicle using the charging extension line.

3.6 After installation, pull the plug into the recorder and set up the rear camera interface.

3.7 Adjust the lens position to ensure that the lens stays level with the ground.

3.8 Start the engine and check that the machine is installed correctly.

**【Attention】** When installed correctly, the machine will automatically enter a recording state. Check to see if the picture on the display is correct. If the display is inverted, contact our technical department.

## Proposed installation sketch map



Rear view mirror location

Wiring position

3.9 When SD card is inserted for the first time, please format it from the system menu.

## 4. Recording function

Start the car engine, the recorder will automatically start to record. If you need to operate the recorder, use the touch the screen. The below tool bar will pop up from the bottom of the mirror. swipe left or right screen to switch between the front camera and the rear cameras.



### There are 6 operable icons in the toolbar:

- Click icon to pause video recording. Clicking again to restart.
- Click icon to capture a photo of the current picture.
- Click icon to turn audio recording on and off.
- Click icon to lock and unlock the current file.
- Click icon to switch to video playback mode.

## 5. Playback Function (Stop recording before entering the playback mode)

Click home page. Click icon to enter the playback mode. There are five folders in the playback mode as per the below diagram.

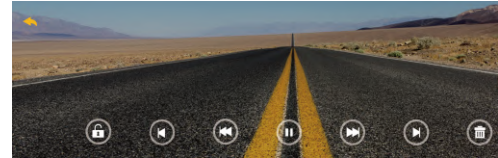


5.1 Click icon to preview the video files recorded by the front camera (Video/F folder corresponding to SD Card) When you select the folder, the icon will light up . Files can be edited in the preview window. One can zoom in or out and rotate the video.

Click on the lower right corner icon to lock the currently selected video file. Click again to unlock.

Click on the lower right corner icon to delete the currently selected video file.

## The playback interface has 7 operation icons, as shown below



Click icon to lock and unlock the currently selected video file

Click icon to switch to the previous video file

Click icon to rewind a recording

Click icon to play and pause

Click icon to fast forward

Click icon to skip to next video

Click icon to delete the current file. Note that locked files cannot be deleted

Click icon to view recorded video files

Click icon to return to the recorder interface

## 6. Set Feature Service(Please stop the video before entering the setup menu.)