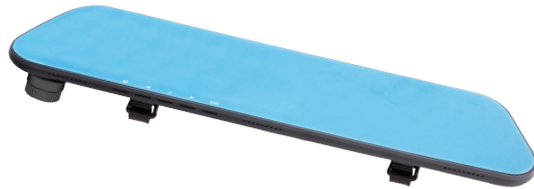


BOYO®

Rear View Mirror Monitor & HD DVR VTR24MHD User's Manual



1. Introduction

This product is a device to record the video and sound during driving. It has the functions of loop recording, photo, recording, G-sensor collision automatic locked, parking monitoring (vibrating turn on) etc.

2. Packing List

| No. | Item | Quantity |
|-----|-----------------------|----------|
| 1 | Dash Camera | 1 |
| 2 | Car charger | 1 |
| 3 | Rubber strap bandages | 4 |
| 4 | User Manual | 1 |
| 5 | SD Reader(USB 2.0) | 1 |
| 6 | Warranty Card | 1 |
| 7 | Registration card | 1 |

3. System Parameters

| No. | Project | Parameter |
|-----|-----------------------|------------------------------|
| 1 | Mirror Glass | 2.5D |
| 2 | Type | Strap-on |
| 3 | Operating Voltage | DC 5V |
| 4 | Working Current | ≤290mA |
| 5 | Display | 2.4 Inch, 320*240 |
| 6 | Video Resolution | 1920*1080 SHD 30FPS |
| 7 | Video File Format | MOV H.264 |
| 8 | Picture Format | JPEG |
| 9 | Storage Medium | Up to 32GB C10 |
| 10 | Parking Mode | G-Sensor activated recording |
| 11 | Motion Detection | Yes |
| 12 | Operating Temperature | -20°C~70°C |
| 13 | Storage Temperature | -40°C~85°C |

-1-

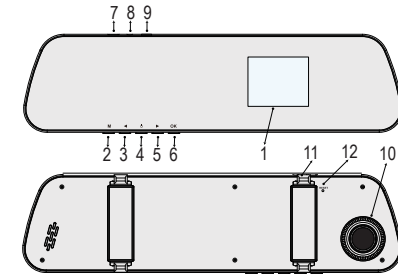
4. SD Card Selection

- Ensure to record completely information, please use a TF card of Minimum capacity of 8GB, maximum capacity of 32GB, and make sure the speed is above Class 10.
- Before using TF card, please use this device to format the TF card.

5. Operating Instructions

5.1 Product Structure

1. TFT Display
2. Menu / Return
3. Up
4. Power ON / OFF
5. Down
6. OK
7. Mini USB port
8. Reserved port (rear view camera)
9. TF card slot
10. Front Camera
11. Buckle
12. RESET



5.2 Icon Description

| Icon | Function |
|------|------------------|
| | Replay |
| | Recording |
| | Loop Recording |
| | Motion Detection |
| | Video Exposure |

| Icon | Function |
|------|----------------|
| | Photograph |
| | Photo Exposure |
| | White Balance |
| | Replay Icon |
| | Video Locked |

| Icon | Function |
|------|-----------------------|
| | TF Card |
| | Charging |
| | Replay |
| | Parking Monitoring ON |

-2-

5.3 Operations Instructions

- **Power ON/OFF Key :**
press **[P]** to choose power on or power off.
- **[OK] Key:**
(1). ON / OFF recording function
In recording mode, short press **[OK]** to start recording, press again to stop recording.
(2). Take Photos
In photo mode, short press **[OK]** to take a picture.
(3). Browse les
In replay mode, short press **[OK]** to play/pause the video les.
(4). Select Function
In the menu settings, short press **[OK]** to confirm or save the selection.
- **[UP] Key:**
Press **[UP]** to upturning selection.
- **[DOWN] Key:**
Press **[DOWN]** to the next selection.
- **[MENU] Key:**
(1). In recording standby mode, long press **[M]** into recording menu; long press it again to enter the setup menu. Press **[UP]** or **[DOWN]** to choose the correct setting and press **[OK]** to save the setting. In the setup menu, short press **[M]** will automatically exit the setup menu and return to recording standby mode.
(2). In photo mode, long press **[M]** to enter camera menu, long press it again to enter the setup menu. Press **[UP]** or **[DOWN]** to choose the correct setting and press **[OK]** to save the setting. In setup menu, short press **[M]** will automatically exit the setup menu and return to photo mode.
(3). In replay mode, long press **[M]** to enter the replay menu. Press **[UP]** or **[DOWN]** to choose the correct setting (delete or lock the files) and press **[OK]** to save the setting. Long press it again to enter the setup menu. In the setup menu ,short press **[M]** will automatically exit the setup menu and return to replay mode.

5.4 Interface

- **Mini USB interface:** Standard USB2.0 data transmission and equipment power supply.
- **TF card slot:** TF card.

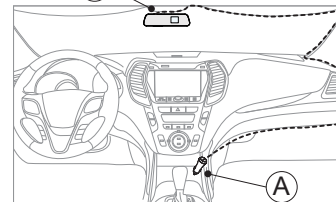
-3-

5.5 Recording and Photo

- **Video resolution:** 1080FHD 1920*1080(standard)、720P 1280*720、VVGA 848*480、VGA 640*480 30FPS
- **Photo resolution:** 12M 4032*3024、10M 3648*2736、8M(3264*2448(-standard)、5M 2592*1944、3M2048*1536、2MHD 1920*1080、1.3M 1280*960、VGA 640*480
- **Recording:** the device will start to record automatically while power on. After power off, it will record for another 10 seconds and then shut off. When the device turns on, short press **[OK]** Key can start or stop recording.
- **Record Audio:** In recording mode, you can set the audio ON or OFF; initial setting is ON, audio and video will be turned on synchronously when start.
- **Photo:** Press **[OK]** key and switch to photo mode. In the photo mode, press **[OK]** Key to take photos.
- **Wide dynamic range:** Support high dynamic range shooting to improve effect of low exposure.
- **Parking monitoring (Park mode):** Default setting is "ON", you can set "OFF" if needed. While "ON", if there is vibration, it will transmit to the device. At that time, the device will turn on automatically and start to record. After 20 seconds of recording, it will stop and shut off.
- **File protection:** In order to protect important videos from being covered during loop recording, the device will lock the videos by G-Sensor activated. When G-sensor senses get enough impact force, the system will judge that a driving accident has occurred, and locks the current video to protect. If the user thinks the current video is very important, he can also lock it manually.

6. Installation method

Wiring Diagram:
A. Connect the car charger to the corresponding socket of the car.



B. Connect the other end of the car charger to the Mini-USB port of the device.

-4-

7. Common troubleshooting

| Fault | Solutions |
|---|---|
| Unable to turn on | Please confirm whether the wire is connected. |
| can't record or video frames dropped or crashed | 1. Please format TF card before use. 2. Please confirm whether a high-speed memory card above Class10 is used. |

Note: This product reserves the right to change the design and specifications without notice. If there is any difference, please refer to the actual product.

Reminder: If you have any questions, please email us for help.

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-5-