

## CAUTIONS:

1. Please format the card before power on, otherwise video errors and freezes will occur during video playback. Please use a high-speed TF card. If a low-speed card is used, problems are likely to occur.
2. You can view the video through the mirror. Or you can connect to the mobile APP to view through the mobile phone.
3. WiFi account: YV09-XXXXXX, Password: 12345678
4. About touch buttons: When two touch areas are touched at the same time, the touch buttons will malfunction temporarily. Function resumes after 15 seconds.

**Note: For the best performance and durability of video recording, we recommend to use C10 U1 level TF card or better.**



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**BOYO**<sup>®</sup>  
VISION  
**VTR96M**

## 360° Streaming HD Mirror Monitor Recorder

### USER MANUAL



The contents of the screen display are for reference only, depending on the actual display.

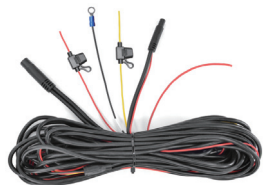


## PACKAGE CONTENT

The package contains the following:



01 Rear view mirror



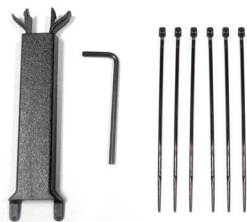
02 Wire harness



03 Rear camera



04 User manual



05 Accessories

For the items listed above, please check your packing contents.

## FEATURES

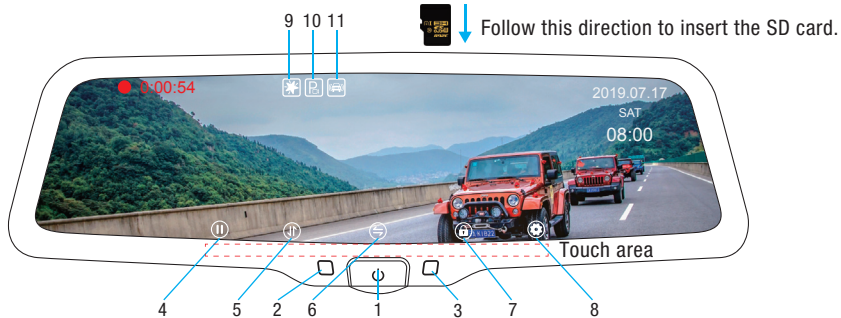
- Front 360° Panoramic Video
- Dual-way recording
- Rear recording 1080P
- 9.66 inch full display screen
- Touch screen button
- Wi-Fi connection
- Parking mode
- Night mode
- LCD power save
- Time lapses video
- G-sensor
- Real-time view on app
- IP68 waterproof rear camera
- Back up camera display

## SPECIFICATIONS

Video Resolution	Front 1544*1544P / rear 1080P
Recording Angle	Front 360°/ rear 120°
Video Format	H.264, MOV
Display Screen	9.66 inch MIPI IPS, 1280*320
Memory	SD card (MAX 64GB)

Wi-Fi	0-10m
Battery	Support
Supporting platform	RTK
Operation Temperature	-20°C-70°C
Working Voltage	10-16V

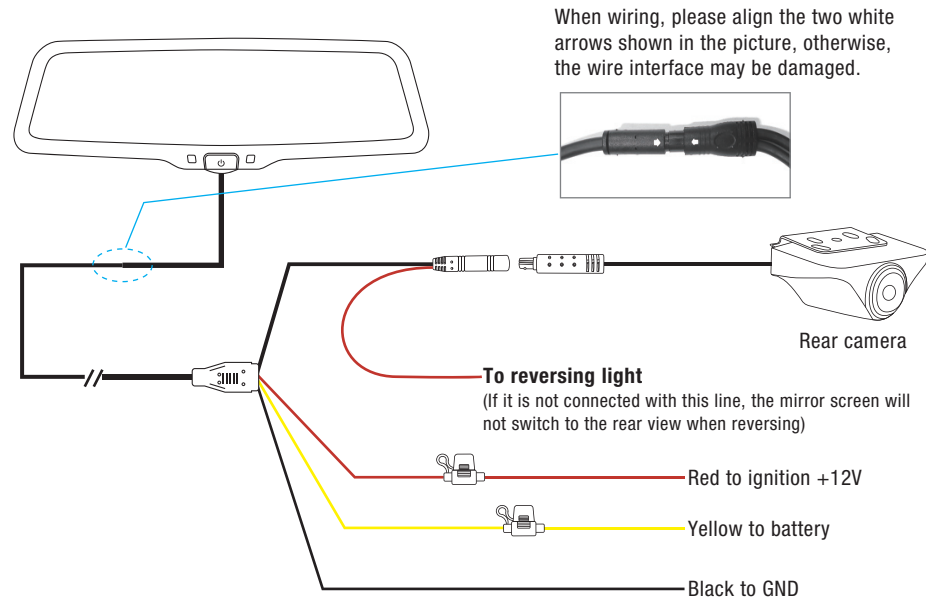
## BASIC OPERATING INSTRUCTIONS



**NOTED:** The touch area of the keys is not on the glass screen, but on the plastic frame below the key icon.

1:  short press to turn on/ off the screen; Long press to turn off the mirror, then short press to restart		
2: Light sensor	3: Indicator	4:  stop recording;  start recording;
5:  Short press to adjust the screen display range; Long press to take photo		
6:  Video switch button ( available to use after connecting rear camera)		
7:  Lock the current video when recording;  Enter the “playback” interface when stop recording;		
8:  Short press to enter the “menu setting” interface when stop recording		
9:  Night mode icon;	10:  Parking monitoring icon;	11:  G-sensor icon;

## HOW TO WIRE



## MENU SETTINGS

Stop recording, tap the icon “

2019.12.03  
TUE  
15:30

Movie Mode  
FHD 30fps  
HD 30fps

Movie Clip Time

Night Mode

Sound Record

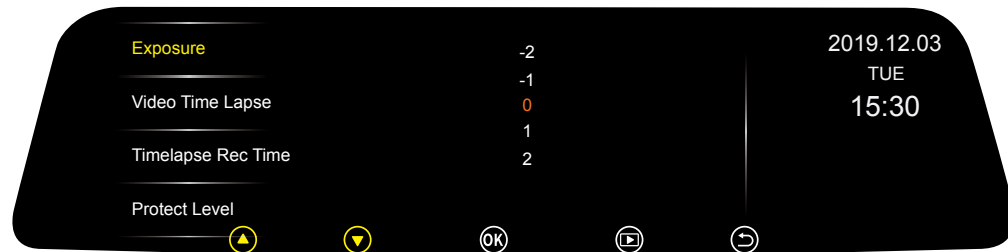
Previous Next Confirm/ Back to previous Return

**Movie Mode:** Applies to the front camera only. FHD30: 1080P@30fps - default. HD30: 720P @30fps

**Movie Clip Time:** Can set “1min / 3min / 5min”.Default 3 minutes.

**Night Mode:** On: increase exposure/sensitivity. Off: normal - default

**Sound Record:** On: Audio Recording ON - default. Off: Audio Recording OFF



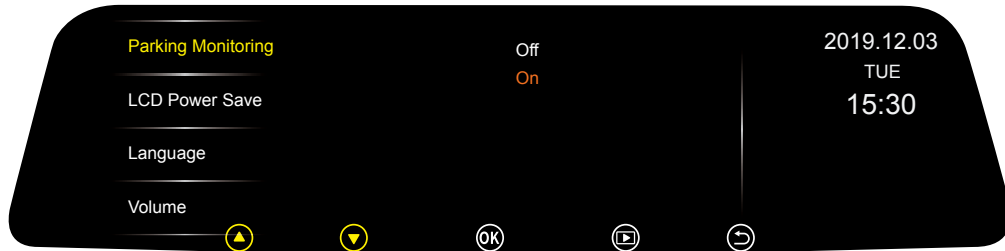
**Exposure:** Can set “-2 / -1/ 0 / 1 /2”. The default is 0. This setting is only for the front camera, not useful for the rear camera.

**Video Time Lapse:** Can set “Off / 1FPS / 4FPS”.

**Timelapse Rec Time:** Can set “2 hours /8 hours /12 hours /24 hours”. Default 2 hours.In “Video Time Lapse option”, select “1FPS” or “4FPS”. When the car is turned off and the machine is in the ACC disconnected state, the machine will prompt to enter the “Timelapse Rec Time”video. When the voltage reaches 11.3±0.15V setting, the machine will stop recording automatically to avoid car engine can't start properly because of low voltage. When playing a video, it turns a long video of slow motion into a short video of fast motion, similar to fast forward playback in movies. For example, when recording for 1 minute, the video is compressed to 1 second, and the recording for 1 hour is changed to 1 minute to play.

**Protect Level (G-sensor):** Can set “Off / High / Middle / Low”.

With G-sensor function, dash camera can automatically save the video as event file when it detects acceleration of gravity changes greatly. For example, when car crash happens. The event file will be locked and cannot be overwritten in record cycle mode. It can only be manually deleted one by one or formatted.



**Parking Monitoring:** Can set “Off /On”.

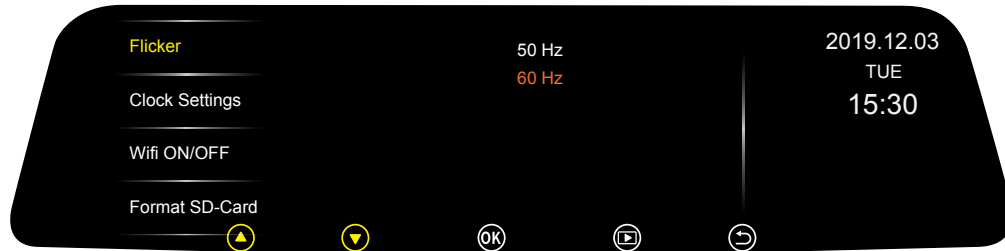
When this function is turned on, when the recorder is shaken when it is turned off, it will start the machine to record for 30 seconds and then turn it off.

**LCD Power Save:** Can set “off / 1min / 3mins”.

After exiting the menu, the mirror will start to count the time once there are no operations. The screen will auto turn off when it reaches the time you set.

**Language:** “English / Simplified Chinese / Traditional Chinese”etc. There are 8 languages.

**Volume:** Can set “Off / High / Middle / Low”, default Middle.



**Flicker:** Can set “50Hz / 60Hz”.

Each country has different supply frequency due to geographical reason. Standard frequency of dash camera lens is constant 50Hz. When the supply frequency inconsistent with frequency standard the image on the device will appear joggling phenomenon. At this point users should adjust Frequency to consistent with supply frequency.


**Clock Settings:** Users can adjust the time and date by themselves, or connect the mirror to the phone via WIFI, the time will be updated automatically.

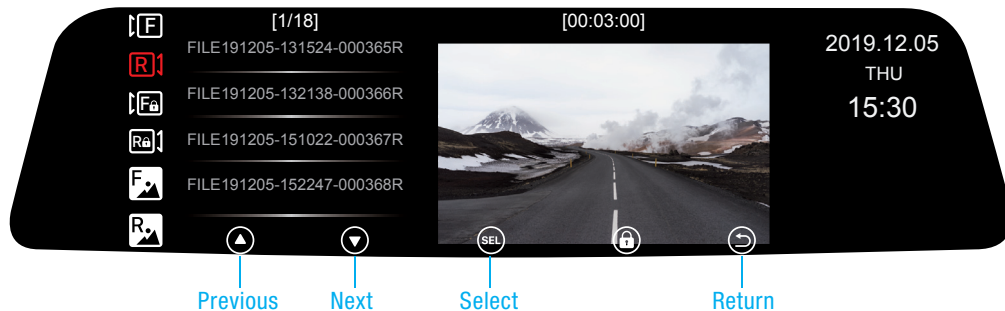

**Wifi ON/OFF:** Can set “On / Off”.

**Format SD-Card:** If it's not necessary to save the videos in card, user can delete all videos (both normal video and event files) by formatting.

**Reset Setup:** After making a lot of custom settings,users can reset the device to the original factory settings.

## PLAYBACK


Stop recording, tap the icon “

Press “

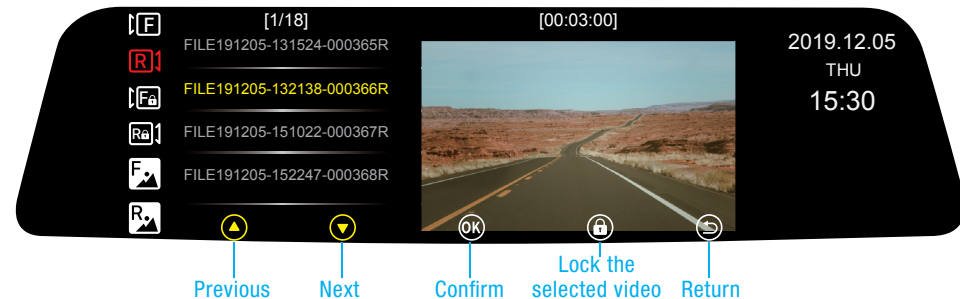
The screenshot shows a playback interface with a list of video files on the left and a central video preview. The list includes:


- [1/18] FILE191205-131524-000365R
- FILE191205-132138-000366R
- FILE191205-151022-000367R
- FILE191205-152247-000368R

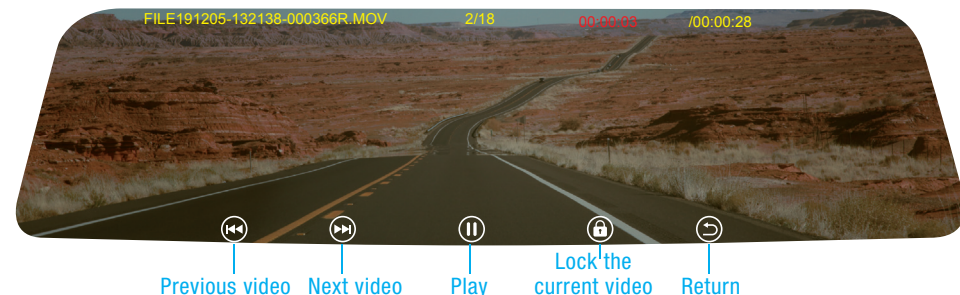

The central video preview shows a road with a mountain in the background. The date and time are 2019.12.05 THU 15:30. At the bottom, there are four navigation icons: Previous (up arrow), Next (down arrow), Select (SEL), and Return (curved arrow).

Press “

9



PS: Press and hold “

Press “

The screenshot shows a video preview of a road in a desert landscape. The video title is FILE191205-132138-000366R.MOV. The current time is 2/18 and the duration is 00:00:03 / 00:00:28. At the bottom, there are five navigation icons: Previous video (left arrow), Next video (right arrow), Play (pause icon), Lock the current video (lock icon), and Return (curved arrow).

## MOBILE PHONE APP CONNECTION and OPERATION

Built- in WiFi module system allows to connect mobile phone through Android or IOS APP, please check below for its setup.

1. Download “ 360DASHCAM” APP.

2. Turn on the rearview mirror, and wifi is turned on by default. The WiFi account and password are displayed in the lower right corner of the screen, as shown in Figure 1.

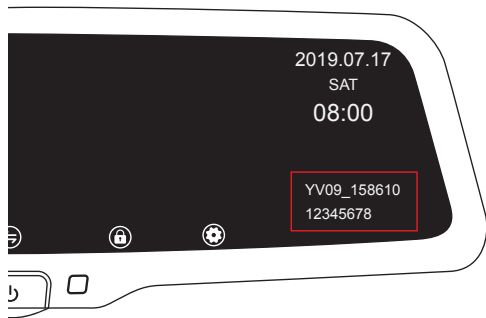


Figure 1

3. Enter mobile phone interface, turn on Wi-Fi and connect Wi-Fi ID, enter initial password: 12345678, then connect. Please see figure 2

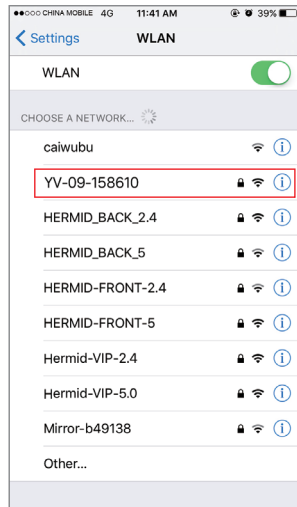


Figure 2

4. Open the mobile app and enter the album interface by default, as shown in Figure 3 (because the first time you log in, there is no download of the recorded video to the local, the file is empty). Click “Recorder” to enter the recorder interface, as shown in Figure 4.

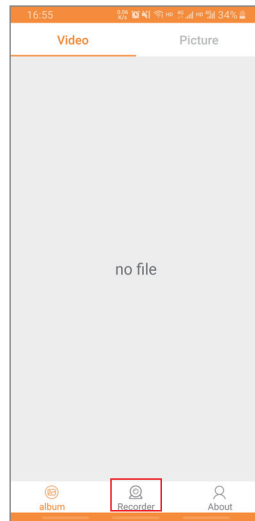


Figure 3

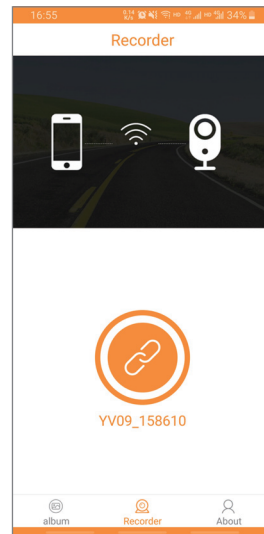


Figure 4

5. In Figure 4, click the “Recorder” icon, the phone and rearview mirror are successfully connected, as shown in Figure 5.

6. Once connected, user can check the recording video and operate accordingly.

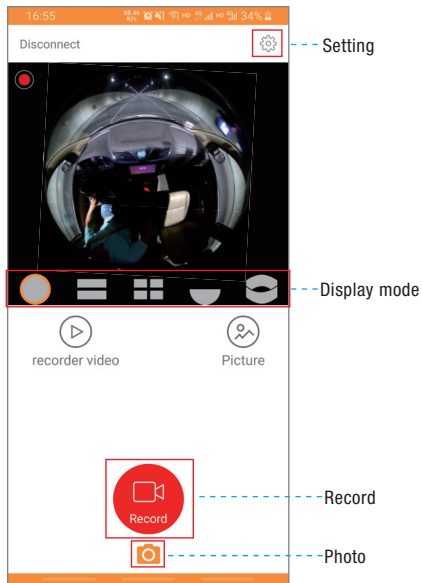
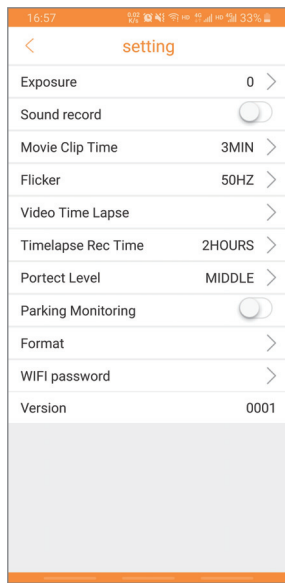

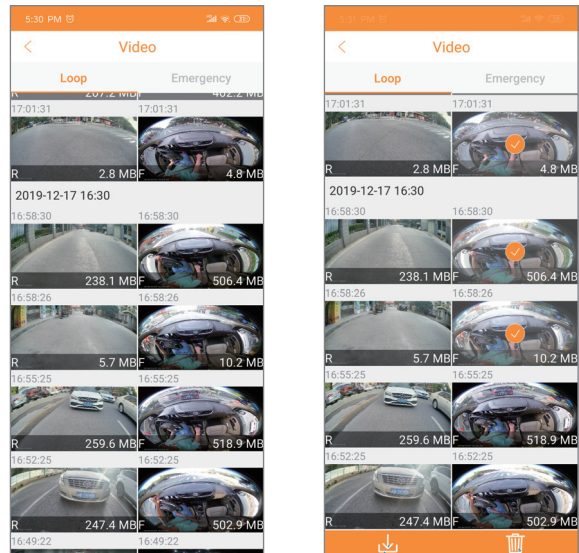


Figure 5



Setting interface

Click “” to enter the list of recorded videos, Press and hold the file thumbnail to select the file, download the video to the local, delete videos in batches, etc. See the figure below.



Download to local album Delete