

## Safety Caution

### Notice:

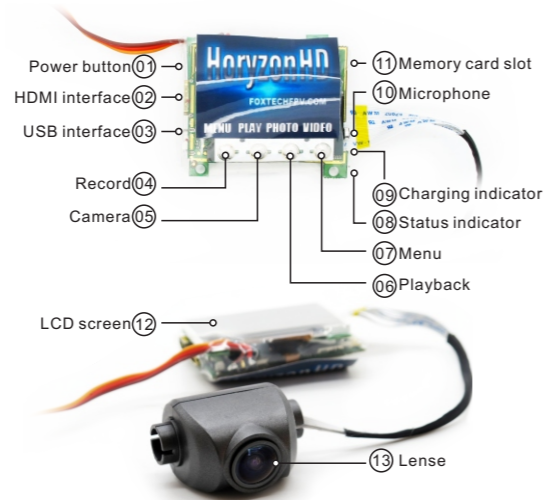
- 1.The electromagnet field of specific frequency may affect the audio and video of this product.
- 2.If the static or electromagnet lead to the failure of the data transfer,please break the connection or restart the application program and reconnect the communication cable(USB etc.).
- 3.Please do not put this product in an air-tight place like bookcase or closet in case of the electric shock or fire caused by excess heat.
- 4.Please do not put the product near fire.
- 5.Please keep the mainboard module at least 5cm from other electronic equipments on your plane to avoid inter-interference.

### Precautions for using this recorder

- 1.Please check the recording first before starting to record.
- 2.Please be noted that this product is not dustproof or waterproof.
- 3.Please do not touch the lense with dirty hands.
- 4.Please keep the product from water.If there is water getting inside, the product might be damaged and cannot be repaired in some situations.
- 5.Please do not hold the product face toward the sun or other strong light,which may cause failure.

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## Product sketch map



### 1.Function introduction

#### Power button

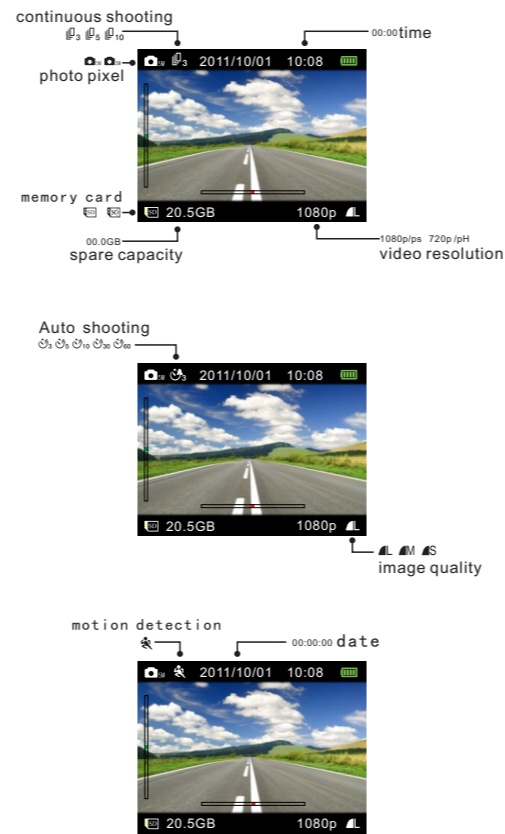
- 1.Press the power button then it will enter the standby mode in a few seconds.
- 2.Press the power button again then it will be turned off in 2 seconds.

#### Menu button

- 1.In standby mode, press and hold down this button for 3 seconds to enter the menu setting state.
- 2.In menu setting status, short press this button can browse the taps while long press it for 3 seconds can go back to the parent menu, and continue the long press to exit.
- 3.In playback mode, short press this button will stop playback video. While browsing the files, short press this

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## 2. Display icons



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## 2.Insert and take out memory card



- 1.Insert the card with the side with golden contacts down,then jog the card until it clicks.
- 2.When taking out the memory card, jog the card until it clicks,then the card will pop out.

**Notice:** Please do not take out the memory card while in recording, photo taking or USB mode, otherwise the card or the files in it could be damaged.



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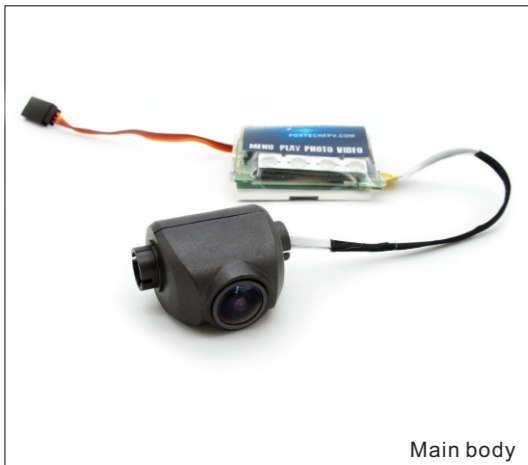
- 1.Press the Video button to start timelapse recording.The red icon shows it is recording.The screen does not show record time in this mode.Press the Video button again to stop recording.
  - 1 frame per second
  - 10 frames per second
  - 30 frames per second
  - 60 frames per second
- 2.This function is designed for recording slow-moving scene, such as flowers blooming, plants growing,etc.The record files in this condition take up less storage space.If the record files are to be played back, make sure a specialized play software is available for playback frame by frame or slow playback.
- 3.Before using this function, make sure the Motion detection in system menu is closed.

### 3.Motion detection

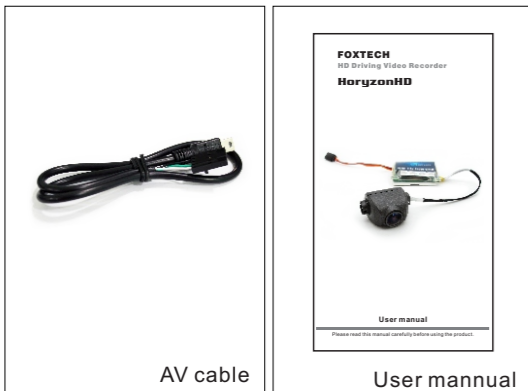
- 1.When the motion detection is started, the icon will be shown on the standby screen.Press Video button to record, and the icon will keep flashing,ready for trigger event.
- 2.When a trigger event is detected,it will start recording. The red Video icon will be shown on the screen.
- 3.Record time will not be shown in this mode.If the moving object stays still for 30 minutes, it will stop recording and go back to detecting mode,waiting for next trigger. Press the Video button again can stop the motion detection recording and go back to the standby mode.
- 4.According to the moving object's ratio in the visual field,there are three levels of trigger sensitivity to select.
  - High sensitivity:**It will be triggered to record the moment a distant and small moving object is detected.

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## Package contents



Main body



AV cable

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button can enter the Action menu and long press can't exit playback mode.

#### Playback button

- 1.In standby mode, short press will enter playback status.
- 2.While playing back, press this button to play or stop the video.
- 3.In menu setting status, press this button to confirm.

#### Camera button

- 1.In standby mode, press this button to take pictures or increase the digital zoom.
- 2.In menu setting mode, press this button to up select.

#### Video button

- 1.In standby mode, press this button to record video or reduce the digital zoom.
- 2.In menu setting mode, press this button to down select.

#### HDMI interface

- 1.The interface is C-TYPE. Connecting the recorder to a HD display device with a special cable, the video data can be transferred to the device and the operations on the pictures and videos can be done on the device.
- 2.Support 1920x1080,1440x1080,1280x720 output.

#### Multi-functional USB interface

- 1.The interface is compatible with standard MINI USB 5P cable, using to connect PC.
- 2.Output AV and input auto power supply.

#### Charging indicator

1. Recharging the indicator turns red, after full the Green indicator on.
- 2.If no external power input, the charging indicator will not shine.

#### Status indicator

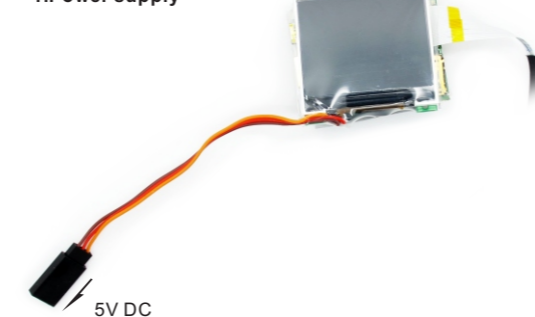
- 1.In standby mode,the blue indicator on.
- 2.While recording,the blue indicator flashes rapidly.
- 3.While taking photos, the blue indicator flashes slowly.

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## Operation guide

### 1.Power supply



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### 3.Turn on/off

- 1.Press the power button to turn it on, it will enter the standby mode in a few seconds.
- 2.After you are finished using the device,long press the power button for about 2 seconds to turn it off.

### 4.Installing the device

- 1.Install the holder into the slot on the back of the device.
- 2.Invert the device and fix the holder on the windshield or other spots with a capacious view and can be direct mounted.
- 3.Both the angle of the holder and the lense are adjustable.

## Video recording

### 1.Normal recording mode

- 1.Press the Video button to start recording.The red icon on the screen shows it is recording and the record time shows on the bottom of the screen.
- 2.The record files will be saved in sections as the time pre-set in video sections in the video menu,for example,if the setting is 15 minutes a section, then the system will create a new record file and keep recording when the recording time reaches 15 minutes.The files will be named after the number of the order they are created.
- 3.The video section setting cannot be closed or removed.Two sequential files are connected seamlessly without losing a single frame, which can keep the video smooth and intact.

### 2.Timelapse recording

1. When the timelapse recording is started, the icon will be shown on the standby screen.

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**Secondary sensitivity:**Starting to record when an average sized moving object in a moderate distance is detected.

**Least sensitivity:**Starting to record when a close and small moving object is detected.

- 1.Make sure the device is fixed and stable when using this function, or it will be affected and fail to detect the motion of the object properly when the car rocks.
- 2.When the Motion detection and the Timelapse recording are both functioning, press the Video button can only start Motion detect recording.

### 4.Loop recording

- 1.Loop recording functions in the Regular recording mode.The recorder can keep recording without changing the memory card.
- 2.When the memory card is full, it will delete the earliest video files automatically and keep recording.
- 3.Rules for automatically files deletion

● The protected files will not be deleted. (This should be set manually in Playback/Photo/Protection)

● The earliest files will be deleted first.It deletes one file each time.

● For example:FILE0001.MP4、FILE0002.MP4...FILE0059.MP4.When the memory card is full,the system will delete FILE0001 first and create FILE0060.MP4 and then keep recording.If the room is still not enough for recording,it will delete FILE002.MP4 until the spared recording time is long enough for one section.Then FILE0061.MP4 will be created and thus,loop recording.

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- If the time of the old file is longer than the video section, then the whole file will get deleted.
- d. When it is Timelapse recording or Motion recording, if the memory card is full then it will stop recording or loop recording.

### 5. Video menu settings

| Items            | Menu setting                                      | Function description   |
|------------------|---|--|
| Resolution       | 1080p   | 16:9 Full HD<br>1920X1080P 30fps   |
|                  | 1080ps  | 4:3 Full HD<br>1440X1080P 30fps  |
|                  | 720pH   | 16:9 Full HD<br>1280X720P 60fps  |
|                  | 720p  | 16:9 Full HD<br>1280x720p 30fps  |
| Video Quality    | L   | Maximum  |
|                  | M   | Medium   |
|                  | S   | Minimum  |
| Metering mode    | ☐   | Average metering   |
|                  | ◻   | Central weighted metering  |
| Video sectioning | 5 min/<br>10 min/<br>15 min/<br>20 min/<br>30 min | When in continuous recording, the video file will be saved in sections as the time set here.     |
| Time stamp       | On / Off  | When enabling this setting, the date and time will be shown on the up left corner of the screen. |

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With the icon keeps flashing, it will start shooting the moment it is triggered.

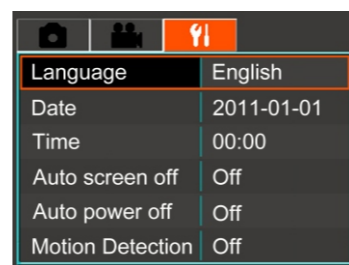
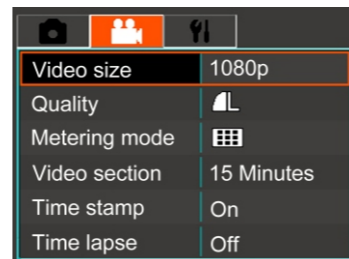
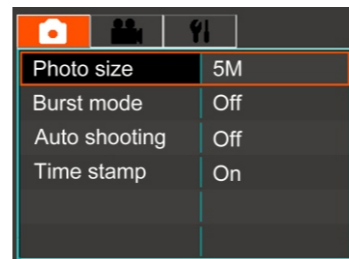
- When it is triggered by the detected object, it will start shooting. The red camera icon will be shown on the screen.
- If the object stands still for 30 seconds, it will stop shooting and keep detecting until next triggering. Press Camera button again can stop Motion detecting shooting and go back to the standby mode.
- Make sure the device is fixed and stable when using this function, or it will be affected and fail to detect the motion properly when the car rocks.

**Notice: When the Motion detection, Continuous shooting and Auto shooting are all open, press the Camera button can only start Motion detecting shooting.**

### 5. Camera setting menu

| Items               | Setting         | Function description        |
|---------------------|-----------------|-----------------------------|
| Pixel               | ☐               | Photo pixel: 2592x1944      |
|                     | ☐               | Photo pixel: 2048x1536      |
| Continuous shooting | ☑ <sub>3</sub>  | Shoot 3 photoes at one hit  |
|                     | ☑ <sub>5</sub>  | Shoot 5 photoes at one hit  |
|                     | ☑ <sub>10</sub> | Shoot 10 photoes at one hit |
| Auto shooting       | ☑ <sub>3</sub>  | Shoot 1 photo every 3       |

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### Upgrade programs

- Please make sure the battery power is sufficient or there is external power supply.
- Please copy the upgraded files to the memory card (Please do not change the name of the files). Then insert the memory card into the card slot.
- Turn on the recorder and enter Setup menu > Upgrade. Press Confirm to enter Upgrade interface, then select Yes and press Confirm to start upgrading.
- After it finishes upgrading, the system will restart automatically.

### Output videos and photoes to HD TV

- Connect the device with the HD TV set through an HDMI cable (not included in this product).
- Make sure there is HDMI sign on the HDMI cable.
- A transfer line is needed to transfer the HDMI C TYPE to HDMI A TYPE when connecting to the HDMI interface of HD TV set.

### Connecting to PC

- Connect the device to PC.
- When the screen shows the Connecting to PC interface, press up/down button to select YES. Connect the device to PC as a removable disk. Operations like Playback, Copy, Delete and so on can be done on the computer.

### Solutions for common problems

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# FOXTECH HoryzonHD



## User manual

Please read this manual carefully before using the product.

|                     |   |  |
|---------------------|---|--|
| Timelapse recording | Close<br>1 sec./frame<br>10 sec./frame<br>30 sec./frame<br>60sec./frame | Set the space of time for capturing 1 frame video.   |
| Loop recording      | On / Off  | When enabling this function, it can recycling memory space and loop record. When the memory card is full, the system will delete the earliest file automatically and continue recording. |
| Microphone          | On / Off  | When enabling this setting, it will record the video and sound synchronously.  |

### Photo taking

- Normal photo mode**  
Press Camera button to take pictures. The icon will be shown on the screen while shooting.
- Continuous capture mode**  
When enabling this function, the related icon will be shown on the screen. Press Camera button and it will take photoes continuously as the setting in the menu.
- Auto shooting**  
When enabling this function, the related icon will be shown on the screen. Press Camera button and it will take photoes as the pre-set intervals.
- Motion detecting shooting**  
a. When enabling Motion detecting function, the related icon will be shown on the screen. Press Camera button to start motion detecting photo taking.

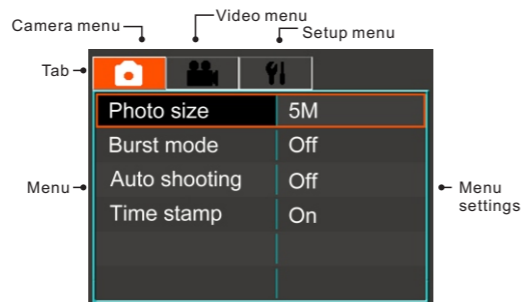
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|               |                 |  |
|---------------|-----------------|--|
| Auto shooting | ☑ <sub>5</sub>  | Shoot 1 photo every 5 seconds  |
|               | ☑ <sub>10</sub> | Shoot 1 photo every 10 seconds   |
|               | ☑ <sub>30</sub> | Shoot 1 photo every 30 seconds   |
|               | ☑ <sub>60</sub> | Shoot 1 photo every 60 seconds   |
| Time stamp    | On / Off        | When enabling this setting, the date and time will be shown on the up left of the photoes. |

### Main Menu

#### 1. Main Menu settings

- In standby mode, long press the Menu button and the Main Menu interface will pop out.



- Shortly press Menu button to browse Camera, Video and Setup tabs.

- Press Camera button and Video button to select items. Press Confirm button to enter set state. Press Camera button and Video button to set and press Confirm button to confirm and go back.

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### 2. Menu setting items

| Items                    | Menu setting                          | Function description   |
|--------------------------|---------------------------------------|--|
| Language                 | English                               | Set English as the system language   |
| Language                 | Simplified Chinese                    | Set the system language as Simplified Chinese  |
|                          | Traditional Chinese                   | Set the system language as Traditional Chinese   |
| Date                     | 2011/01/01                            | Set the date   |
| Time                     | 00:00                                 | Set the time in 24-hour time system  |
| Auto screen off          | Off/<br>30s/<br>60s/<br>120s          | Set the time for auto screen off. When there is no button operation within certain time, the screen will be off automatically to save power. Press any key to turn it on.                  |
| Auto power off           | Off/<br>30s/<br>60s/<br>120s/<br>300s | Set the time for auto power off. When there is no operation within certain time, it will shut down automatically.  |
| Motion detecting         | High/Medium/Low                       | Set the detecting sensitivity  |
| Light source frequency   | 50Hz/60Hz                             | Set according to the power grid frequency to avoid the interference while working under a fluorescent lamp. If it is working under the nature light, then this setting can be passed over. |
| Video output             | NTSC/PAL                              | Set the format if you are outputting the video to TV. Select the right format according to state video system.   |
| Formatting               |                                       | Format the memory card   |
| Restore factory defaults |                                       | Reset all the settings to the default  |
| Upgrade                  |                                       | Upgrade programs   |

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### Video recording/Photo taking

#### 1. Cannot record video or take photoes

- Please check if the memory is full, if it is, delete the unnecessary videos and photoes.
- Please check the settings in the menu. Make sure the Timelapse recording and Motion detecting are set right.
- Please check if the Continuous shooting and Auto shooting are set right.

#### 2. Stop in the middle of the recording

- Please check if the memory card is Micro SD card or Micro SDHC card that the device supports.
- To ensure normal recording, Micro SD card or Micro SDHC card must be high speed.
- The transmission grade of the card should be Class 4 at least.
- In car mode, please mount the device and fix it levelly before connecting the auto power. If the power is connected first, it will start recording before the device is placed properly. The record file will be protected and leaves less room for recording. When the memory card is full, the loop recording will stop.

#### 3. Fuzzy picture

- Please check if there is any dirt or fingerprint on the lens. Wipe the lens gently with a dry and soft cloth if it turns dirty.

### About playback

#### 1. Cannot playback

- Please check if the memory card is inserted properly.
- If there is no file stored in the memory card, it can not play back.
- If the name of the file has been changed, it can not play back.
- If the file has been modified, it can not play back.

#### 2. White dots in the picture

- If recording in dark place, the dust particles may reflect light and cause the white dots in the picture.
- Please check if there is any dust on the lens.

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### Specifications

| Items                   | Contents   |
|-------------------------|--|
| Image sensor            | 1/3.2 CMOS   |
| Lense                   | Fixed focus, f=2.7mm, angle of view=140°<br>Up and down adjustment angle=90°   |
| Exposure control        | Auto exposure  |
| White balance           | Auto white balance   |
| Photo                   | Format: JPEG Pixel: 2592x1944  |
| Video                   | H.264 video compression<br>Size 16:9 1920x1080 (30fps)<br>4:3 1440x1080 (30fps)<br>16:9 1280x720 (60fps) / 1280x720 (30fps)<br>Video section (5min/10min/15min/30min)<br>Bitrate (8Mbps, 12Mbps, 15Mbps) |
| Storage                 | High speed Micro SD (TF card)<br>Maximum support 32GB  |
| LCD glass screen        | 2.0" TFT LCD Pixel: 960x240  |
| Multifunction interface | AV out, USB (Compatible with standard MINI USB plug), DC input, Universal serial data input, Mono audio channel, USB 2.0 high-speed communication, HDMI output, C-TYPE interface, data format HDMI 1.2   |
| Dimensions              | About 52.8 x 43 x 16mm length/width/thickness (not including the Lense)  |
| Weight                  | About 38 g (without av out cable plugged)  |
| Operation temperature   | -10°C-40°C   |