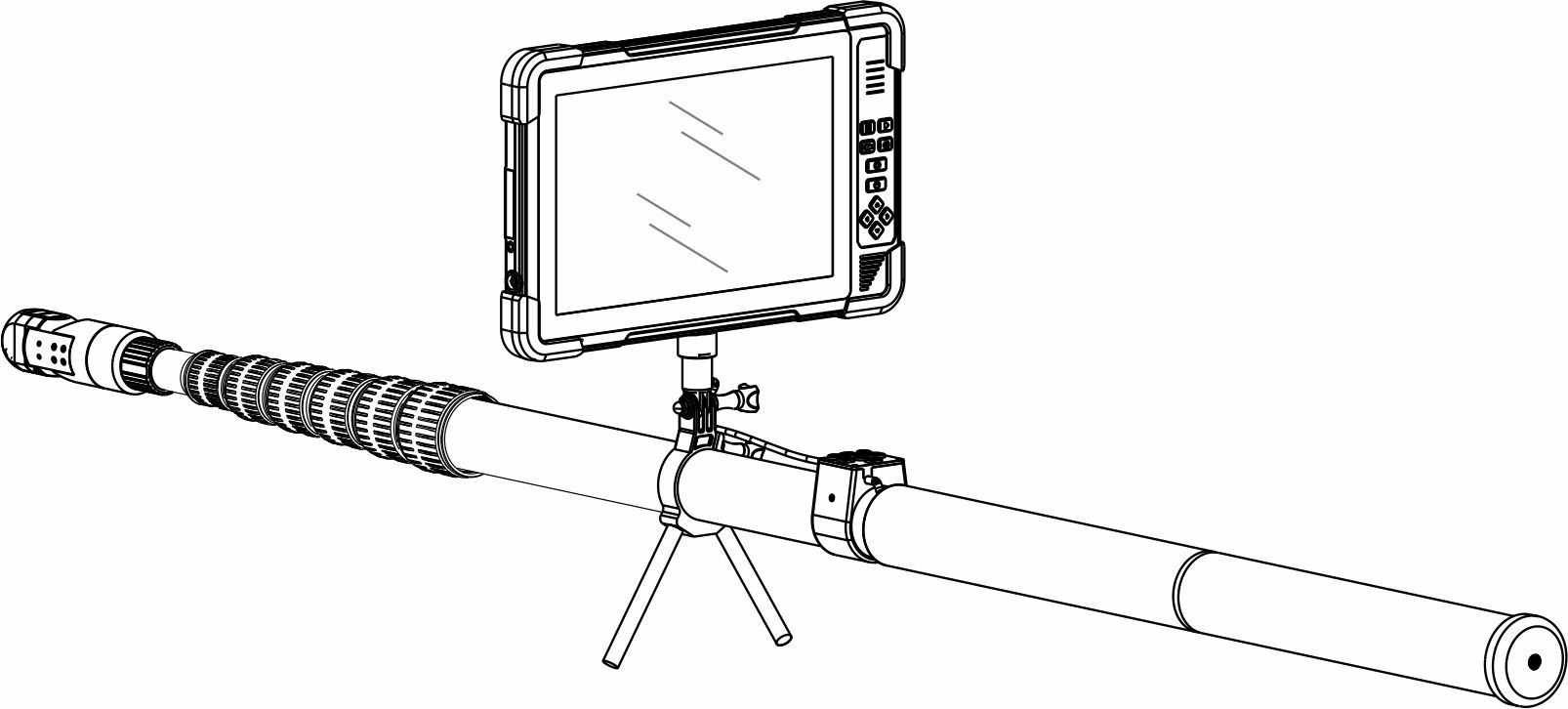
**4K VPC Thermal Life Detector**

Operation Manual

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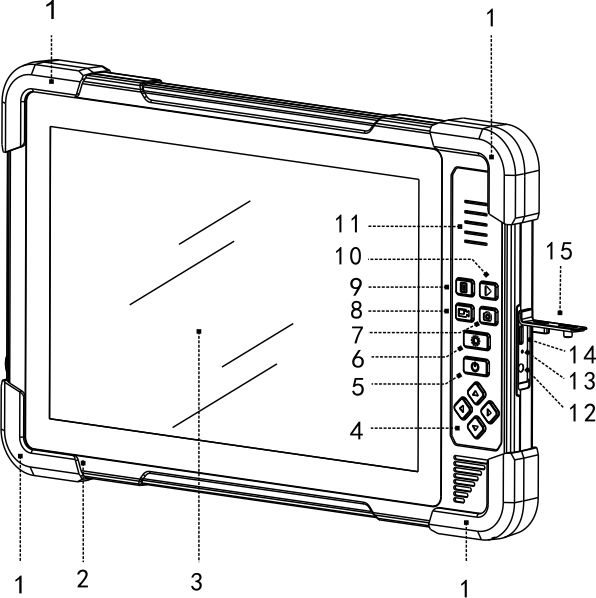
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**Product Overview**

This 4K life detector can take up to 4K videos and 12 MP photos. Functions of photographing, recording and controlling, like 360 ° camera rotation, can be completed through screen touch, buttons both on monitor & rod. This detector uses a 10.1 HD touch screen, a 5 megapixels 360° intercom camera (optional), a 5 megapixels hose intercom camera(optional), an infrared thermal imaging camera(optional ) and a telescopic carbon fiber rod combination. Multiple combinations, simple assembly, convenient carrying, widely applicable to life rescue, disaster rescue, anti-terrorism and explosion-proof, scientific investigation and other fields.

**4K Tablet Monitor**



1.Protection corner

2.Microphone 9.Menu/Confirm

3.10 inch screen 10.Play/Return

4.Up Down Left Righ 11.Speaker

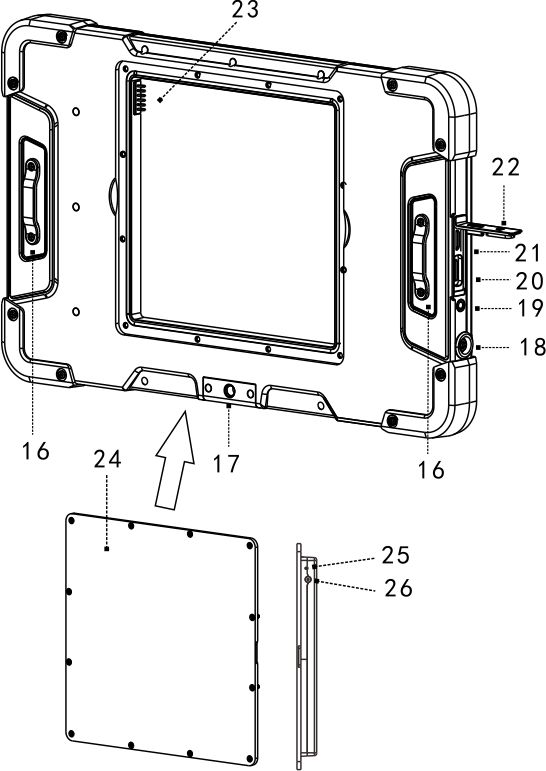
5.ON-OFF 12.DC12V

6.LED Control 13.Charge LED

7.Photo 14.TYPE-C

8.Record 15.Protective cover 1

**4K Tablet Monitor**

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16.Rope buckle 22.Protective cover 2

17.1/4 inch screw 23. Battery Connector

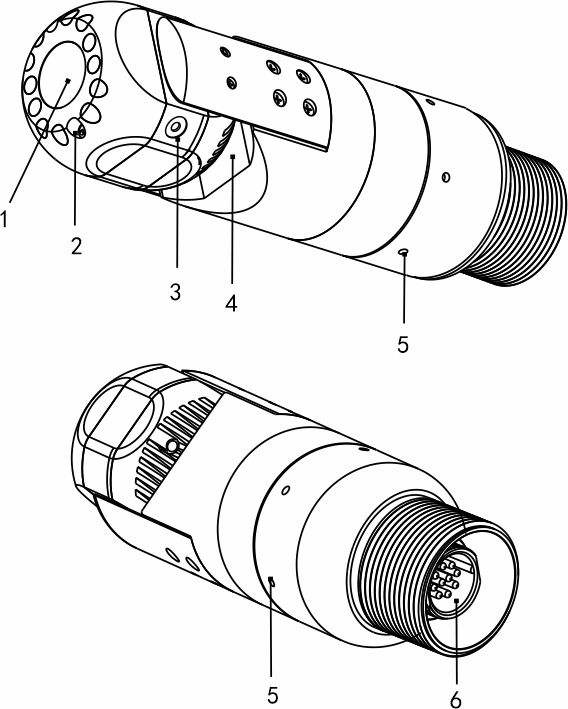
18.Cam Connector 24.Battery box

19.Headset 25.Charging indicator

20.Micro SD Card 26. Battery box DC12V

21.HDMI Output

**360° Audio & Video Camera （Optional）**

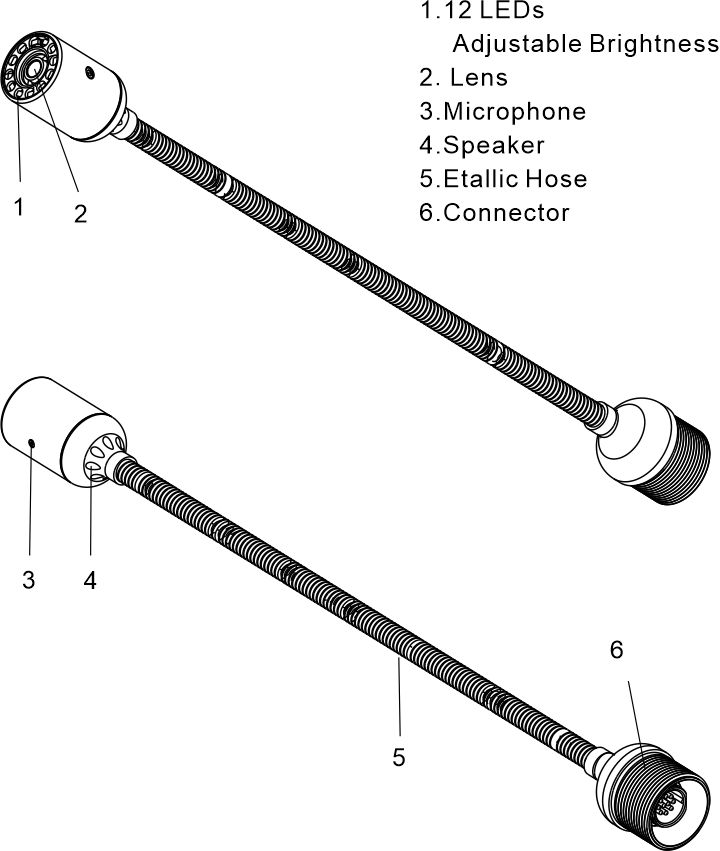
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1, Lens 2, 12 LEDs

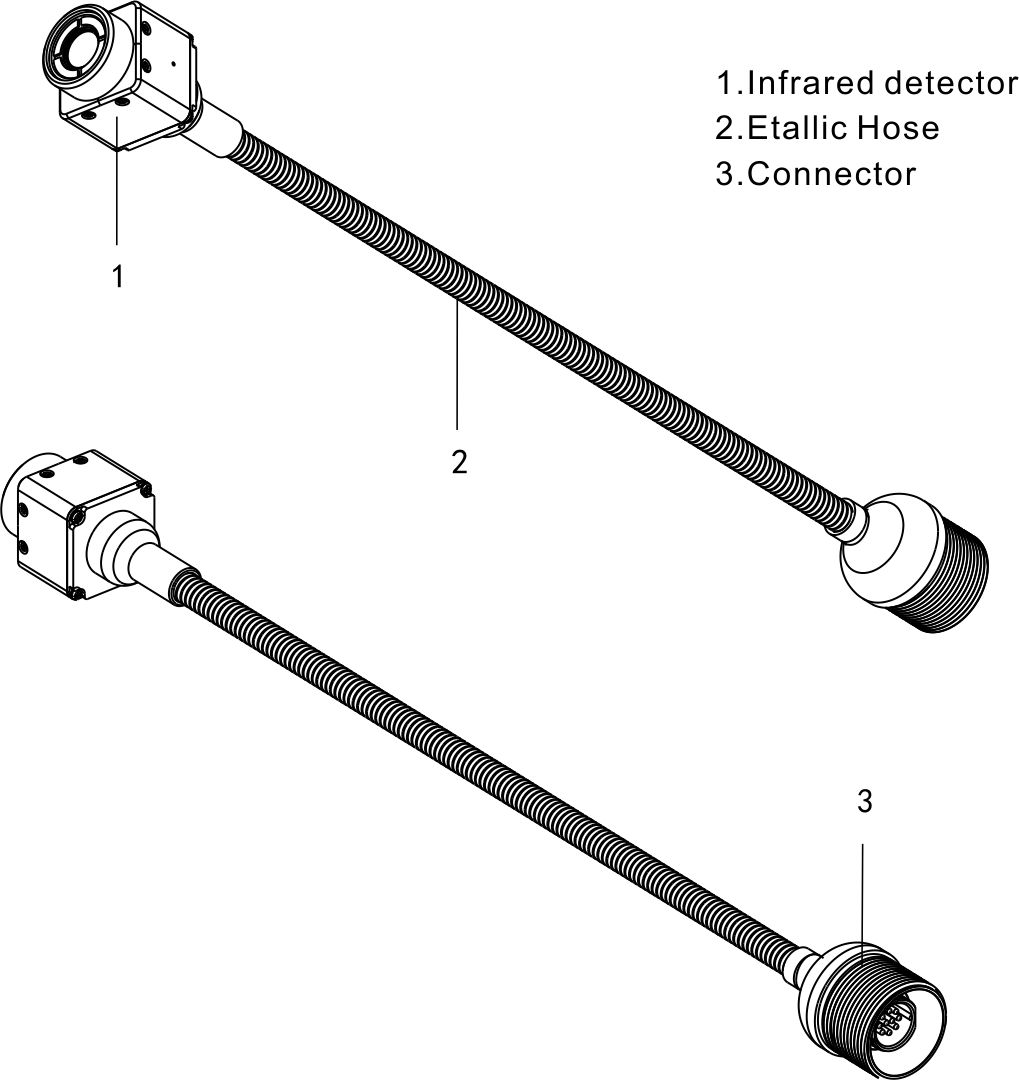
3, Microphone 4, Speaker

5， Clean Hole 6， Connector

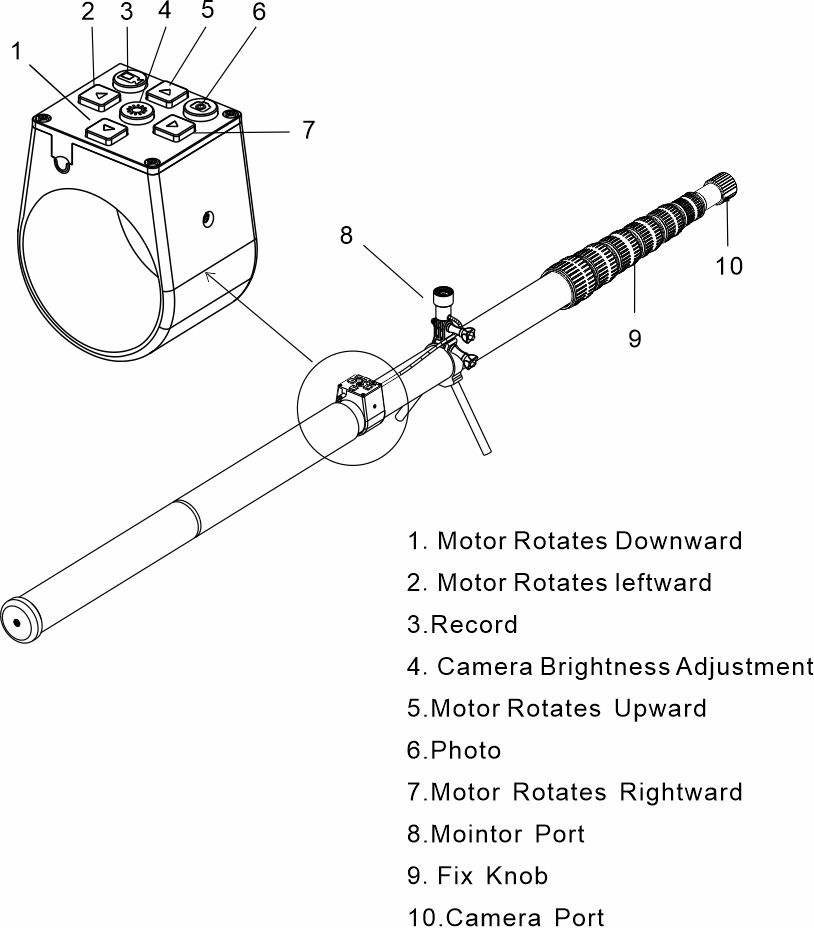
**Audio and Video Camera (Optional)**

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**Infrared Thermal Imaging Detector (Optional)**

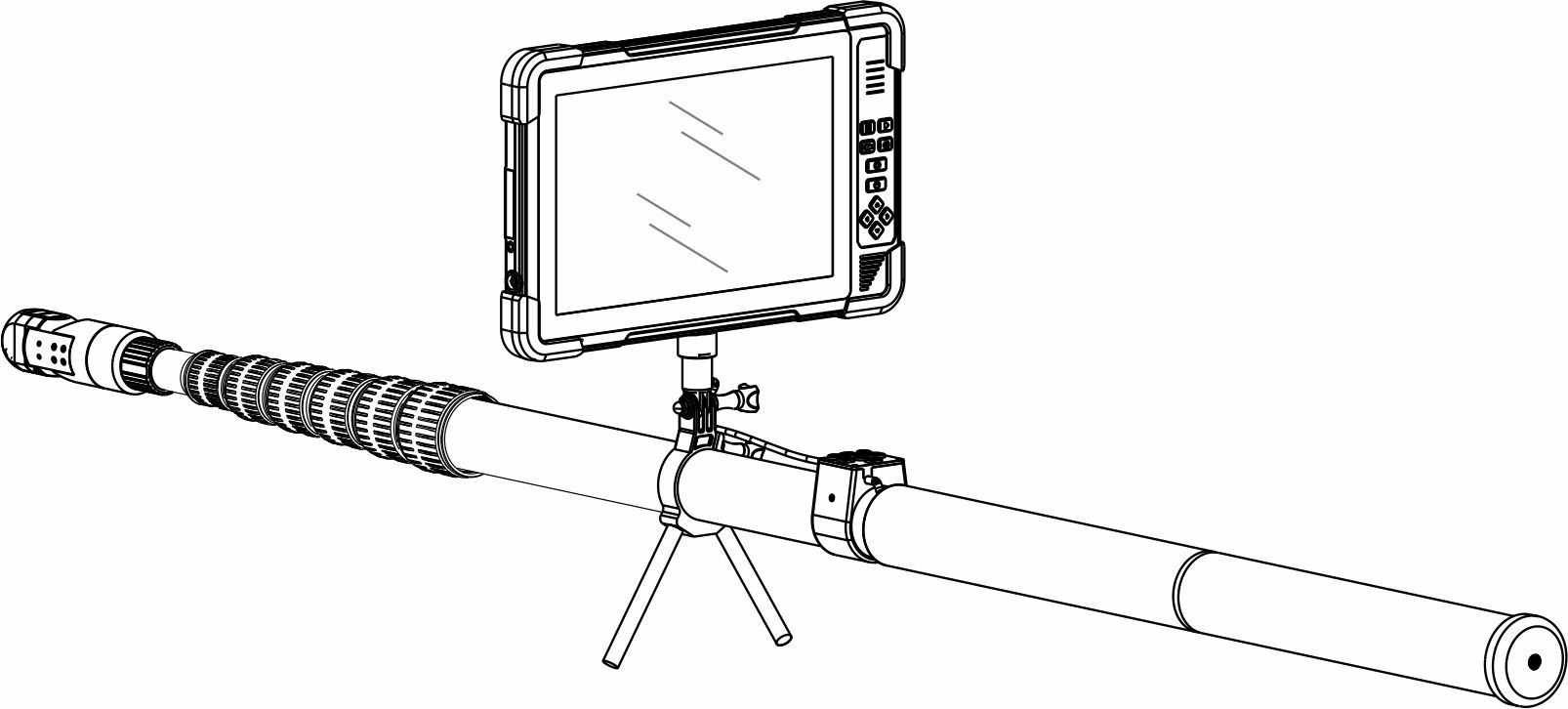
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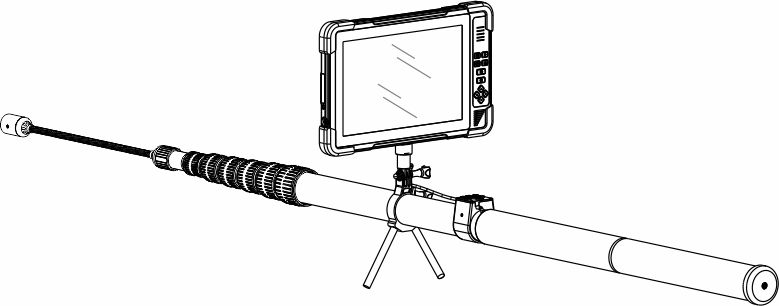
**Carbon Fiber Rod**

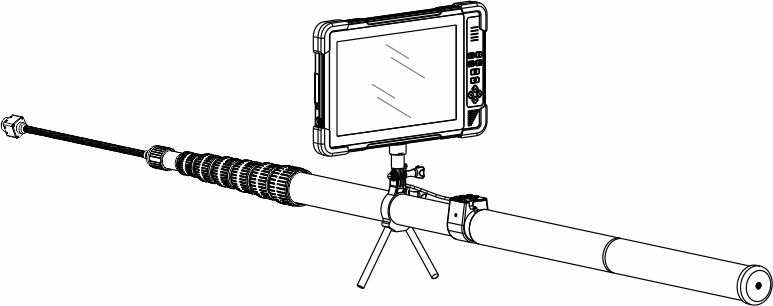
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**Installation & Use**

1. 360 ° Audio and Video Life Detector（Optional）

****

1. Audio and Video Life Detector（Optional）****
2. Infrared Thermal Imaging Life Detector（Optional）

****

**Button Operation**

* **电源 ON-OFF**

Press briefly to power on. Press it for 3s to power off. If crash, press it for 10s to power off and reset.

* **拍照 Photo**

Press briefly, flashes once and get a photo.

* **录像 Record**

Press briefly to record, and the icon turns blue。The video timer can time. Press again to end.

录像 **Playback/Return**

Press it to enter review photos and videos.

Press Up-Down-Left-Right to select.

Press 菜单 to confirm. Press 录像Play again to exit

When record, press 录像 to pause and stop timing; press 录像 again to restore.

* **功能按键图标 LED Control**

Press it briefly to select On-7 brightness cycle-OFF.

* **菜单 Menu/Confirm**

Press it briefly to enter. Press Up-Down-Left-Right to select. Press 菜单 to confirm. Press 录像 Playto exit.

**Button Operation**

* **上下键UP**

Press to turn camera upward. Release to stop.

* 上下键 **Down**

Press to turn camera downward. Release to stop.

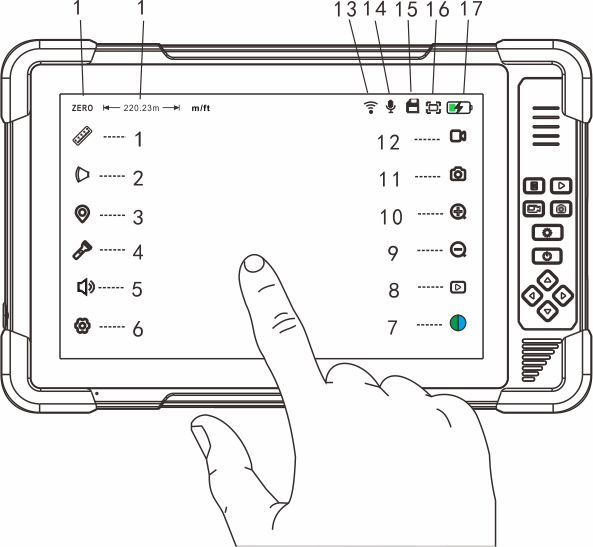
* 上下键 **Left**

Press to turn camera leftward. Release to stop. Press & hold for 10s to turn camera leftward and into cruise mode. Press any UP-Down-Left-Right to stop.

* 上下键 **Right**

Press to turn camera rightward. Release to stop. Press & hold for 10s to turn camera rightward and into cruise mode. Press any UP-Down-Left-Right to stop.

**Touch Screen**

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1. **Range Measurement (Unavailable on this machine)**
2. **Lens Zooming (Unavailable on this machine)**

**3.Mark**

定位图标 **:** Pop up keyboard to input mark, which will display in the lower left corner. Touch it to revise or delete.

**Touch Screen**

1. **LED Brightness Control**

**摄像头LED图标:** Move the slider to control cam’s LED brightness.

1. **Speaker Volume Control**

**喇叭开图标:** Move the slider to control the speaker volume.

1. **System Setup**

功能图标**:** Touch this to enter into system setup.

1. **Display Parameter Adjustment.**

色亮度图标-：Move the sliding block to adjust the parameter. 亮度图标：Brightness 对比度图标 ：Contrast

色度图标：Colourity 色饱和度图标：Saturation

1. **锁头Play**

录像 **:** Play photo & video. Touch to lock the important ones in case error deletion. Touch again to unlock it.

1. **Zoom out**

缩小图标**:** Touch this to zoom out the screen.

**10. Zoom in**

**放大图标：**Touch this to zoom in the screen.

1. **Photo**

拍照图标: Touch to take photo and screen flashes once.

**Touch Screen**

1. **Reco**

录像图标 Touch it, the icon turns blue, and the video timer starts; touch it again to end.

1. **WiFi**

WIFI：WiFi is on; if crossed, WiFi is off.

1. **Mic**

麦克风： Mic. is on. If crossed, Mic. is off.

1. **Micro SD card**

**TF卡：**Card is ok. If crossed, abnormal or no card.

1. **Icon Switching of Image Display Scale**

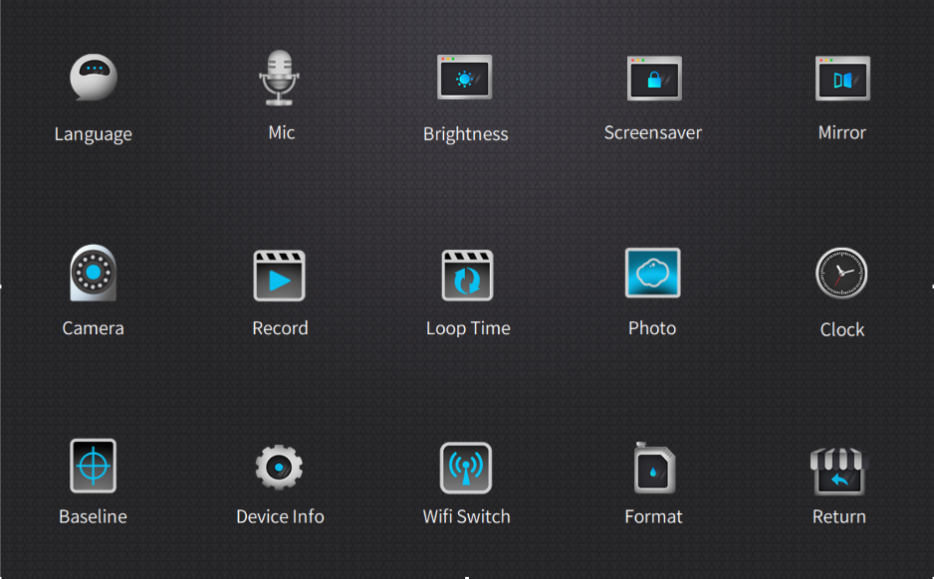
Press 全屏图标：Image displays 4：3

Press 16-9：Image displays 16**：9**

1. **Battery power**

电池：Display battery power: the lighting shows it’s charging.

**System Setup**

****

**Language** Show the available languages: Chinese, Traditional Chinese, English, French, German, Russian, Korean, Japanese.

**Mic.** Touch to turn the microphone on/off.

**Brightness** Touch to set the screen brightness.

**Screensaver** Touch to set the time of screen Saver

**Mirror** Touch to set: normal display; flip horizontal; flip vertical; flip horizontal & vertical.

**Camera** Touch to set camera input resolution. According to the resolution & frame rate of the known AHD camera, you can choose: Auto 2K, 1080P, 720P, CVBS. Monitor will reset after switching the resolution.

**Record** Touch to set resolution of recording.

**System Setup**

**Loop Time** Touch to set the time of recycle recording: 1s, 2s, 3s, 5s 10s, off. If choose ‘off’, recording will end until the micro SD card is full.

**Photo** Touch to set the size of photo: 1.2 mega pixels, 8 mega pixels, 4 mega pixels, 2 mega pixels.

**Clock** Touch to set the system date & time.

**Baseline** Touch to set the types of baseline: off; cross; ruler; roundel.

**Device Info.** *About*, *Reset* and *Password Switch*

*About:* Includes Wifi name and password, memory size of micro SD card, firmware version.

*Reset:* It can delete all the settings and restore to factory state and restart.

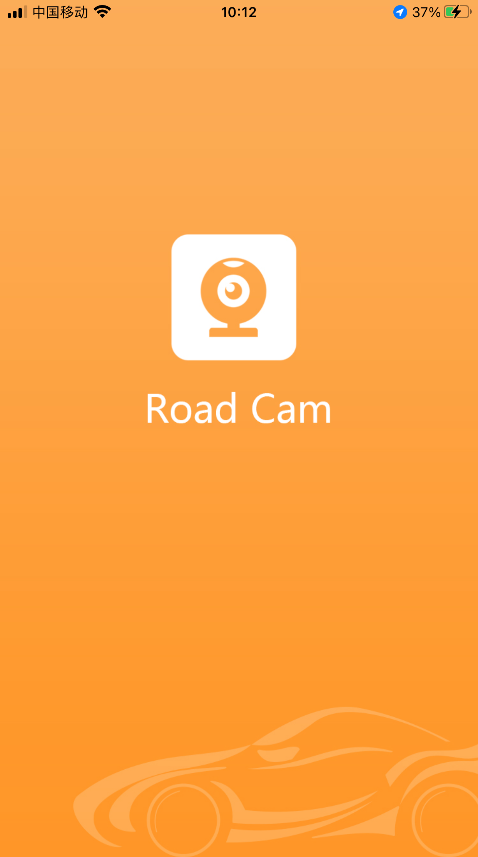
*Password Switch*: Switch off, it directly enters working state upon startup; switch on, it needs to enter a password to start working. The default startup password is 8888.

**WiFi Switch** Touch to switch Wifi on or off.

**Format** Touch and check format micro SD card. Format will delete all the data in micro SD card. Be sure to do a good job of data backup.

**Return** Touch it to return and exit system setting.

**RoadCam APP**

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Before run RoadCam App, turn on the Wifi of the monitor first. Find the SSID name and password in “About”. Then add the WiFi network of the monitor to the WiFi configuration of the external device.

**APP Monitoring Interface**



* Run RoadCam App，touch device to connect. After successful connection, it automatically jump to camera interface. You can take photo, recording, play and share.
* You also can change the WiFi name and password in RoadCam Setting.
* Save the photo and recording files to monitor.
* Enter into *Video*, play and load video locally.
* Enter into *Photo*, play and load photo locally.

**Charge**

Push away the waterproof protective cover. Connect DC12V adapter with DC port, or connect Type-c port with USB-C adapter (user himself provided). During Charging, the indicator is on. When fully charged, the light turns off. It takes about 4 hours to fully charge.

**Firmware Upgrade**

Before upgrade, please ensure power is >20% (1 grid). Copy upgrade file (SigmatarUpgradeSD) to microSD card. Power on, it will auto upgrade. It will auto turn off after upgrade. Unplug card to finish upgrade.

**Attention**

1. Please use device under temperature between –20 ℃ and 60℃. Excessive temperature will cause abnormal expansion, ignition and even explosion of the battery. Before using it under low temperature, it is recommended to fully charge under normal temperature to extend the life of battery.
2. Please place device in a proper position to prevent it from falling and breaking the screen.
3. This machine is dustproof and rainproof. Please do not immerse the machine in water.
4. If you continue to use the microSD card on this device after upgrade, please delete the upgrade file in the card first。

5. The default startup password is 8888.

**Specification**

**4K Tablet Monitor**

|  |  |
| --- | --- |
| Display | 10.1inch |
| Screen Resolution | 1280\*800 pix |
| Touch screen | capacitive touch screen |
| Video recording | 4K(16:9): 3840x2160@25 /30fps |
| 2K(4:3): 2560x1944@25 /30fps |
| 2K(16:9): 2560x1440@25 /30fps |
| 1080p(16:9): 1920X1080@25 /30fps |
| Video format | MP4(H.265) |
| Photo | 12MP、8MP、4MP、2MP (JPG) |
| HDMI Output | 1080P |
| microSD Card | 2GB-256GB(64GB default) |
| WiFi Protocol | 802.11 a/b |
| WiFi Operating Freq. | 2.4000-2.4835GHz |
| WiFi Transmission Power | <16dBm |
| Battery Capacity | 6200mAh( 45.88Wh) |
| Power Supply | DC 12V / 2.5A |
| Working Time | Over 8 hours |
| Waterproof grade | IP65 |
| Size | L\*W\*H 30\*19\*1.8CM |

**360° Intercom Camera (optional)**

|  |  |
| --- | --- |
| Sensor | SONY |
| Resolution | 5 megapixels（2592 x 1944） |
| Camera Rotation | 360 ° horizontal circular rotation  180° vertical rotation |
| Rotation Rate | 12r/min |
| Light Source | 12 LEDs |
| FOV | 128.5° |
| Sight distance | 0.4-5m |
| MIC | 48dB |
| Speaker | 1W |

**Hose Intercom Camera (Optional)**

|  |  |
| --- | --- |
| Sensor | SONY |
| Resolution | 5 megapixels（2592x 1944） |
| Light Source | 12 LEDs |
| FOV | 128.5° |
| Sight distance | 0.4-5m |
| MIC | 48dB |
| Speaker | 1W |

**Infrared thermal imaging camera (Optional)**

|  |  |
| --- | --- |
| Detector | uncooled vanadium oxide infrared |
| Resolution | 256\*192 |
| Pixels Spacing | 12μm |
| Response band | 8～14μm |
| NETD | ≤50mK@25℃ |

**Carbon Fiber Rod**

|  |  |
| --- | --- |
| Unfolded Length | 5.00m |
| Shrinkage Length | 1.40m |
| Number of Telescoping Joints | 5 |

**RoadCam App Download**

