

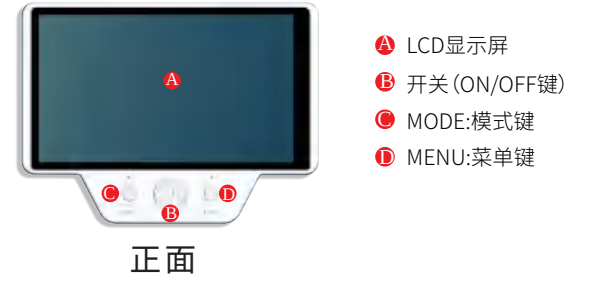


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01. 产品结构



正面



背面

- ① LCD显示屏
- ② 开关 (ON/OFF键)
- ③ 录像模式键
- ④ MODE:菜单键

- ⑤ 0.965英寸目镜接口
- ⑥ 扬声器
- ⑦ 复位孔
- ⑧ 麦克风
- ⑨ USB接口
- ⑩ TF卡插槽

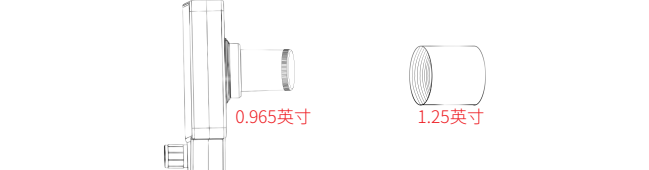
02. 按键功能/定义

本机共有三个操作按键，分别为MODE、MENU、ON/OFF键；另外还内置一个RESET孔。当不明原因死机时请用尖状物插入此孔，轻轻一压即可进行复位关机，具体功能定义如下：

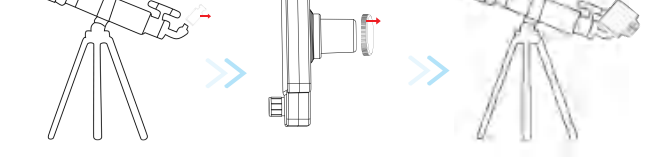
ON/OFF 开关键	①在关机状态下长按3秒开机，再长按3秒关机 ②录像模式：按此键停止或者自动录像 ③拍照模式：按此键进行拍照 ④回放模式：按此键开始播放，再次按暂停 ⑤设置模式：按此键进行确认 ⑥菜单模式：左旋转进入上一设置项、右旋转进入下一设置项 ⑦回放模式：未播放时左旋选择一个文件、右旋选择下一个文件；播放文件时右旋转进入快速播放（每次左旋一次按2X/4X/8X快速播放）、左旋转进入快速播放（每次左旋一次按2X/4X/8X快速播放）
MODE 模式键	在录像待机模式下： ①点按此键切换录像/拍照/回放模式 ②长按按此键快速开启或者关闭移动侦测 ③录像时，点按此键对当前文件加锁保护 ④播放文件时，点按此键停止播放
MENU 菜单键	①点按进入设置菜单，再次点按，退出菜单 ②在录像待机模式下长按此按键可开启或关闭WiFi
RESET 复位孔	不明原因死机时将尖状物（如取卡针、牙签等）插入到此孔中，向孔里轻轻一压即可进行复位关机

03. 安装方法

①根据望远镜目镜接口大小，选择合适的目镜接口（本设备自带0.965英寸目镜接口，如望远镜目镜接口为0.965英寸，则可以直接放到望远镜原来的目镜位置；如望远镜目镜接口为1.25英寸，则需要将包装配有1.25英寸目镜接口锁时旋行安装到设备目镜接口处）



②将望远镜上面的目镜卸掉，将本机目镜接口处防尘盖取下，将其放置到望远镜原来目镜位置，拧紧螺丝固定，安装完成。



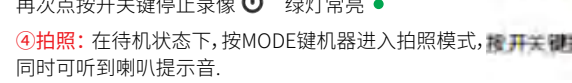
③将电子目镜开机，调焦观测景物，若发现成像是倒立的，请按菜单键进入设置菜单，选择“影像旋转”，然后设置为“开”，倒立影像即旋转为正立影像。

注意事项

- ①使用前请按照正确的方向安装TF卡，请勿将TF卡弯曲；第一次在本机使用时，请在设置菜单中进行格式（FAT32或exFAT）选择（TF卡通常由索尼、三星、闪迪、金士顿、铠侠等品牌生产）
- ②0.965英寸为显示屏自带目镜接口，包装内配备1.25英寸目镜接口
- ③产品使用完后，请做好防尘盖，避免灰尘进入镜头
- ④该设备不可防水，请勿将设备置于水浸环境中或淋雨

04. 操作说明

- ①开机：1.长按开关键3秒开机
2.USB口插入5V电源，机器开机
- ②关机：1.开机状态下长按开关键3秒关机
2.当该显示器低电量时，会保存文件并自动关机



③录像：在录像待机状态下，按点开关键自录像，再次点按开关键停止录像

④拍照：在待机状态下，按MODE键机器进入拍照模式，按开关键进行拍照，同时有闪光灯提示音

⑤回放和删除：在录像待机模式下，连续按MODE键2次后机器进入回放模式，旋转开关键选择所需预览的文件，点按开关键进行播放或暂停，播放时按MODE键停止播放；播放文件时，旋转开关键可以进行快速或慢速的操作，右旋为快速，左旋为慢速，依次旋转为快速2X/4X/8X或慢速2X/4X/8X倍速，显示屏左下角有提示；如果需要要对文件进行删除或解锁等操作，停止播放时按MENU键进入功能选项进行操作

⑥延时摄影：在待机模式下，按MENU键进入设置功能选项，旋转开关键选择“延时摄影”，然后选择“10mins/20mins/50mins”参数中的一个，开启“延时摄影”功能，按MENU键退出设置功能选项

LCD屏状态栏出现“”图标，此时录像按设置的拍摄时间间隔连续录像，形成一帧帧连续画面形成的视频，将长时间完成的拍摄缩略，节约TF卡空间

⑦文件保护功能：录像时，点按MODE键，会强制保存当前录像文件，循环录像时不会覆盖此文件

⑧移动侦测：在录像待机模式下长按MENU键（或者进入菜单开启移动侦测）直接进入移动侦测模式；当检测到有物体移动时，机器开始录像；当连续5秒没有检测到物体移动，机器停止录像，进入移动侦测待机状态；若重新检测到物体移动时，机器重新录像！

由于每个望远镜的镜头光圈有差异，可能影响到侦测的灵敏度，请自行测试效果

05. 电子滤镜

为了方便用户在不同场景下拍摄出清晰的照片，设备内置电子滤镜，设备默认正常滤镜为RF0，若用户在阴天或者半日光场景拍摄，请选择星光滤镜BF1-BF6，若晚上拍摄月亮或者星星，请选择星光滤镜NF1-NF6

电子滤镜调整方法：在录像模式下，大幅度旋转开关键（旋转幅度约为2/3）进入滤镜选择，右旋为星光滤镜选择，左旋为星光滤镜选择；若2秒钟内没有旋转，则退出电子滤镜调整

（注：电子滤镜选择后关机不会保存，重新开机后进入正常滤镜RF0）

06. APP应用

本设备可以搭配APP: Roadcam使用，用手机连接设备的WiFi热点，进行影像预览和录像操作，文件下载等功能！

①安卓下载：进入应用商城，搜索【Roadcam】或扫描下方二维码，下载并安装



②iOS下载：进入苹果商城，搜索【Roadcam】或扫描下方二维码，下载并安装



③WiFi连接：机器开机后，长按MENU键可以开启设备WiFi热点，开启手机WiFi，找到前缀为“V1016-”的WiFi网络，输入默认密码：12345678，点击连接；打开【Roadcam】APP，进入主界面进行操作



注：若不需要手机连接设备，为了省电，请长按MENU键关闭设备WiFi！

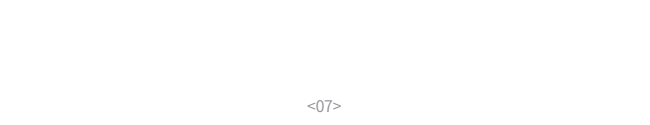
07. 充电

通过所配的Type-C数据线接入设备USB接口，数据线另一端连接手机充电器，就可以对设备进行充电；充电时红灯常亮，充满后红灯熄灭

08. 文件读取

①用USB线连接电脑和设备，设备屏幕出现提示：连接电脑，电脑会自动把设备当成移动U盘，此时可以进行浏览及复制或删除设备里面的文件！

②也可以把TF储存卡拔出来，用读卡器连接电脑进行文件操作！



09. 规格参数

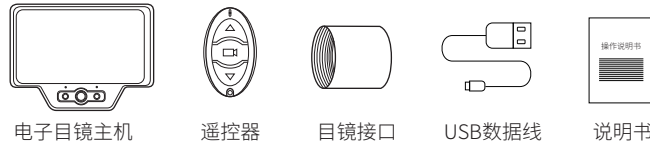
规格参数可能因升级、更新等原因而变更，请以实物为准！

菜单设置	
选项	选择设定
液晶屏尺寸	5寸高清1全视角IPS屏
CMOS SENSOR像素	500万高清1080FHD / 1920x1080
录像分辨率	2K / FHD1080
录像帧率	30帧/秒/30帧/5秒
照片分辨率	40M / 12M / 10M / 8M / 5M / 3M / 2M
视频格式	MP4 / H.264
照片格式	JPG
录像时间	关闭/1分钟/3分钟/5分钟
运动检测	支持
遥控控制	支持
WiFi	支持
记忆卡格式	CLASS10或以上速度，最大支持512GB
语言选项	英语/德语/法语/西班牙语/意大利语/葡萄牙语/简体中文/繁体中文/日语/韩语/阿拉伯语

菜单设置	
选项	选择设定
分辨率	2K / 2560x1440 1080FHD / 1920x1080
循环录像	关/1分钟/3分钟/5分钟
延时录像	关/100ms/200ms/500ms
运动检测	关/开
录影音频	关/开
日期标签	关/日期/日期&时间
影像旋转	开启/关闭
自动关机	关/3分钟/5分钟/10分钟
语言设置	英语/德语/法语/西班牙语/意大利语/葡萄牙语/简体中文/繁体中文/日语/韩语/阿拉伯语
光源频率	50Hz/60Hz
格式化	SD卡
定时关机	关/5分钟/10分钟/30分钟
恢复设置	取消/确认
软件版本	—

菜单设置	
选项	选择设定
分辨率	40M/12M/10M/8M/5M/3M/2M
连拍	5M
快速预览	关/秒/5秒
日期标签	关/日期/日期&时间
删除	删除当前/全部删除
保护	加锁当前/解锁当前全部加锁/全部解锁

产品配件



电子目镜主机

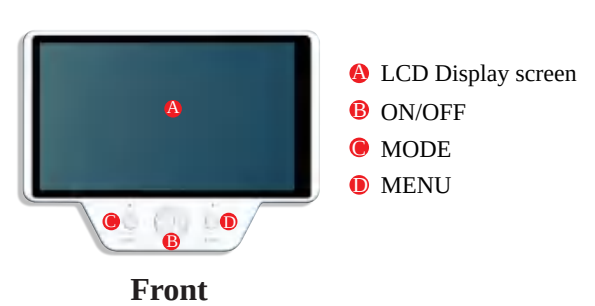
遥控器

目镜接口

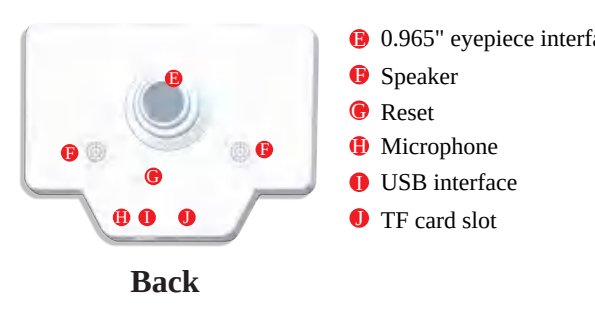
USB数据线

说明书

01. Product Structure



Front



Back

- ① LCD Display screen
- ② ON/OFF
- ③ MODE
- ④ MENU

- ⑤ 0.965" eyepiece interface
- ⑥ Speaker
- ⑦ Reset
- ⑧ Microphone
- ⑨ USB interface
- ⑩ TF card slot

02. Key Functions & Definitions

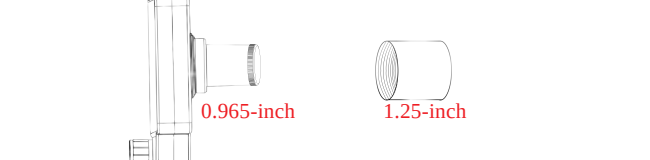
The machine has three operation keys, MODE, MENU and ON/OFF keys. RESET hole: please use a pointed object to insert this hole when the machine is dead for unknown reasons.

ON/OFF	① Long press for 3 seconds to turn on the phone in the off state, and then long press for 3 seconds to turn off the phone ② Recording mode: recording and rotate left and right to adjust the electronic filter (see the following description for specific operation) ③ Photo mode: press this key to take pictures ④ Playback mode: press this key to start playback, press again to pause ⑤ Playback, and delete the video recording standby mode, press the MODE key 2 times in succession, the machine enters playback mode, rotate the key to select the file to be previewed, press the key to play or pause, press the MODE key to stop the operation when playing, when playing the file, rotate the key to fast forward or fast rewind operation, right rotation for fast forward, left rotation for fast rewind, rotate in turn for fast forward 2X/4X/8X or fast rewind 2X/4X/8X times the speed, there is a prompt in the lower left corner of the display; if you need to delete or unlock the file, press MENU to enter the function options when you stop playing ⑥ Menu mode: Rotate left to enter the previous setting item and Rotate right to enter the next setting item ⑦ Playback mode: left to select the previous file and Rotate right to select the next file
MODE	In video standby mode: ① Press this button to switch the video/photo/playback mode ② long press this button to quickly open or close the motion detection ③ When recording, tap this key to lock the current file protection

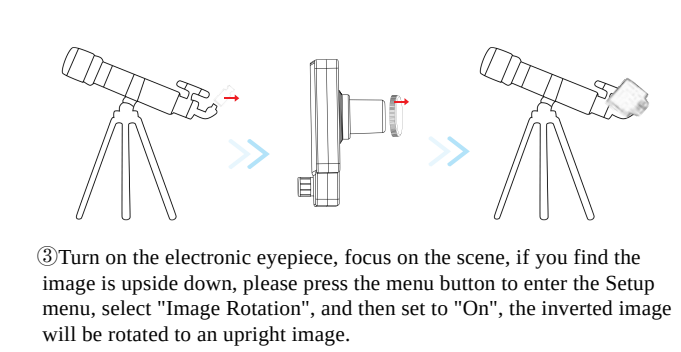
MENU	③ Tap to enter the menu mode, tap again to exit the menu ③ In the video standby mode long press this button to turn on or off WiFi
RESET	Please insert sharp objects (such as pins, pushpins, etc.) into this hole when the machine dies for unknown reasons, and reset it with a gentle pressure into the hole.

03. Installation method

①According to the size of the telescope eyepiece interface, choose the appropriate eyepiece interface (the device comes with a 0.965-inch eyepiece interface, if the telescope eyepiece interface is 0.965-inch, it can be directly placed in the original eyepiece position of the telescope; if the telescope eyepiece interface is 1.25-inch, you need to install the package with 1.25-inch eyepiece interface clockwise screw installation to the equipment eyepiece interface)



②Remove the eyepiece on top of the telescope, remove the dust cover at the interface of the local eyepiece, place it to the original eyepiece position of the telescope, tighten the screws to fix it, and the installation is complete



③Turn on the electronic eyepiece, focus on the scene, if you find the image is upside down, please press the menu button to enter the Setup menu, select "Image Rotation", and then set to "On", the inverted image will be rotated to an upright image.

Cautions

- ①Please install the TF card in the correct direction before use to avoid damaging the TF card or the device. The first time you use in this machine, please perform the formatting operation inside the menu (please use high-speed CLASS10 or higher level of high-speed card)
- ②0.965 inches for the display comes with an eyepiece interface, the package is equipped with a 1.25-inch eyepiece interface
- ③After using the product, please cover the dust cover to avoid dust on the filter
- ④The device is not waterproof, please do not put the device in water or rain.

04. Operating

- ①Power on: 1. long press the key to 3 seconds to power on
2. USB port inserted into the 5V power supply, the machine is turned on
- ②Shutdown: 1. Power on state long press the on button for 3 seconds to shut down
2. When the display is low battery, it will save the file and automatically shut down.

Attention: The icon appears on the status bar of the LCD screen, and the video is recorded continuously at the set shooting interval value. From a continuous frame to form the video, will take a long time to complete the shooting shorten, save TF card space

⑦File protection function: When recording, press the MODE key to forcibly save the current recording file. This file will not be overwritten during loop recording.

⑧Motion detection: In the video standby mode long press the MENU key (or enter the menu to open the motion detection) directly into the motion detection mode; when an object is detected moving, the machine starts recording. When no object movement is detected for 5 consecutive seconds, the machine stops recording and enters motion detection standby mode. When the object movement is detected again, the machine re-recording!

Note: Due to differences in the lens aperture of each telescope, which may affect the sensitivity of detection, please test the effect yourself.

05. Electronic filter

In order to facilitate users to take high-quality and clear pictures in different scenes, the device is equipped with an electronic filter. The normal filter is RF0. If the user shoots in a cloudy day or half of a strong light scene, please select the light increasing filter BF1-BF6. If the moon or stars are photographed at night, please select the light reducing filter NF1-NF6.

Adjustment method of electronic filter: In the video recording mode, turn the key by a large margin (the rotation amplitude is about 2/3) to enter the filter selection, turn the key to the right direction to select the light increasing filter, and turn the left direction to select the light reducing filter; If there is no rotation within 2 seconds, exit the electronic filter adjustment

(Note: After the electronic filter is selected, it will not be saved when it is turned off. After it is turned on again, it will enter the normal filter RF0)

06. App application

This device can be used with the APP: Roadcam to connect the device's WiFi signal with your cell phone for video preview and recording operation, file downloads and more!

① Android Download: Go to Google Store, search [Roadcam] or scan the QR code below to download and install



② IOS Download: Go to Apple Store, search [Roadcam] or scan the QR code below to download and install



③ WiFi connection: After the machine is started, long press the MENU key to turn on the device WiFi hotspot; Open the mobile phone WiFi, find the WiFi network with the prefix "V1016-"; enter the default password: 12345678, and click Connect; Open the [Roadcam] APP and enter the main interface for operation.



Note: If you do not need a mobile phone to connect to the device, in order to save power, long press the MENU key to turn off the device WiFi!

07. Charging

Connect to the USB port of the device through the Type-C cable provided, and connect the other end of the cable to the phone charger to charge; the red light is always on when charging, and the red light goes off when it is full.

08. File Reading

- ① Connect the computer and the device with the USB cable, the device screen appears: memory, the computer will automatically treat the device as a mobile flash drive, you can browse and copy or delete the files inside the device at this time!
- ② You can also pull out the TF memory card and use the card reader to connect to the computer for file operation!

09. Specifications

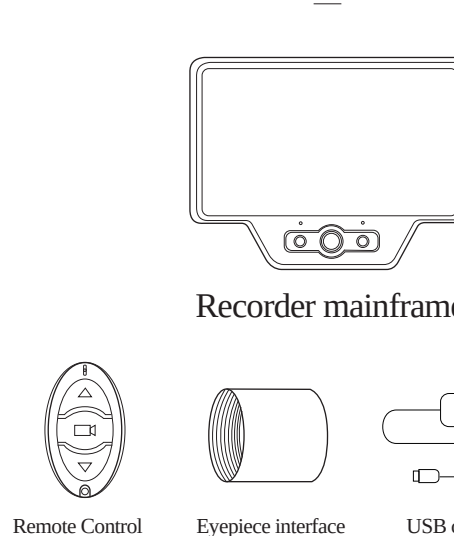
Specifications may change due to upgrades, updates, etc. Please refer to the actual product!

LCD screen size	5-inch HD / full-view IPS screen
CMOS SENSOR Pixels	5 Million HD
Video resolution	2K / FHD1080
Video frame rate	30 fps
Photo resolution	40M / 12M / 10M / 8M / 5M / 3M / 2M
Video format	MP4 / H.264
Photo format	JPG
Recording time	Off/3min/5min/10min
Motion Detection	Support
Remote Control	Support
WiFi	Support
Memory Card Format	CLASS10 or above, supporting up to 512GB
Language	English / German / French / Spanish / Italian / Portuguese / Traditional Chinese / Simplified Chinese / Japanese / Russian / Korean / Arabic

菜单设置	
Projects	Select Settings
Resolution	2K / 2560 x 1440 1080FHD / 1920 x 1080
Recording	OFF/1min/3min/5min
Time-lapse record	OFF/100ms/200ms/500ms
Motion Detection	OFF/ON
Video Audio	OFF/ON
Date Label	OFF/Date/Date & Time
SENSOR Rotation	Turn on/off
Date/Time	MM/DD/YY/DD/MM/YYYY/MM/DD
Auto shutdown	Off/3min/5min/10min
Language Settings	English / German / French / Spanish / Italian / Portuguese / Traditional Chinese / Simplified Chinese / Japanese / Russian / Korean / Arabic
Light source frequency	50Hz/60Hz
Format	SD card
Times screen off	Off/5min/10min/30min
Default Setting	Cancellation / Confirmation
Software Version	—

菜单设置	
Projects	Select Settings
Resolution	40M / 12M / 10M / 8M / 5M / 3M / 2M
Continuous shooting	OFF/ON
Quick Preview	OFF/2s/5s
Date Label	OFF/Date/Date & Time
Delete	Delete current/delete all
Protection	Lock Current/Unlock Current Unlock All/Unlock All

Product Accessories



Recorder mainframe

Remote Control

Eyepiece interface

USB cable

manual

The device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) The device may not cause harmful interference, and (2) The device must accept any interference received, including interference that may cause undesired operation. Changes to restrictions listed herein are approved by the party responsible for compliance with the user's liability to comply with the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures: — Reorient or relocate the receiving antenna. — Increase the separation between the equipment and receiver. — Consult the dealer or an experienced radio/television technician for help. — Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. — Consult the dealer or an experienced radio/television technician for help. This equipment complies with the FCC RF radiation exposure limits and tests for an uncontrolled environment. The equipment should be used and operated with a minimum distance of 20cm between the body and any part of this body.