

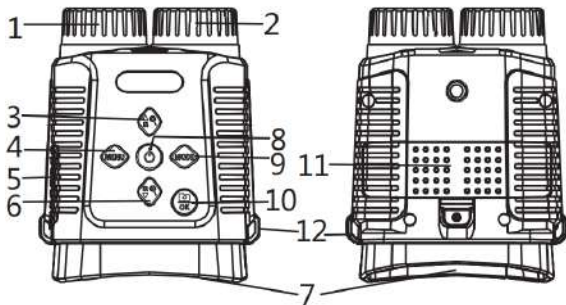
User Manual



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Product Overview



1 . focus wheel	2 . IR LEDs
3. IR Up/Zoom in/Up Button	4 . Menu Button
5. USB port/Micro SD card slot Cover	6 . IR Down/Zoom out/Down Button
7. View Area	8 . Power Button
9. Mode Button	10 . Shot/OK Button
11. Battery Cove	12. Strap Hole

Specification

- Still Image Size: 12M(4000x3000)interpolation/
8M(3264x2488)interpolation/ 5M(2592x1944)
interpolation/ 3M(2048x1536)interpolation
/2M(1600x1200)interpolation/1M(1280x960)
/VGA(640x480)
- Video Size: 1080P(1440x1080@30FPS)
interpolation/ 960P(1280 x 960@30FPS)
/VGA(640x480@30FPS)
- Aperture: F 1.2 f=25mm , Automatic IR filter
- Lens Angle: FOV=10°, diameter is 24mm
- Display Screen: inner screen is 2.4 inches 720*320
TFT LCD ;
- Storage Media: Micro SD card, up to 32GB
- USB Port: TYPE-C
- Auto Power Off: Off/1min/3min/5min/10min
- Infrared light: 3W, 850nm strong infrared limelight,
7-speed infrared adjustment
- Viewing Distance in all dark: 250M-300M

- Viewing Distance in weak light: 3M~infinity
- Digital Zoom: 4X
- Color special effects: color, black and white, luminous green, infrared light
- Power Source: Polymer battery, 2260MAH
- Language: Multiple languages available
- Date Stamp: Supports setting date and time. Date and time stamp on photo and video files
- Operation button: 6 buttons
- Operating Temperature: -20°C to +60°C
- Storage Temperature: -30°C to +60°C

Inserting Memory Card

- ◆ Please prepare a Class 10 Micro card(up to 32GB) in advance.
- ◆ Open the card slot cover, you will see the card slot.
- ◆ Insert the Micro SD card into the slot. Make sure the direction is right. Never insert the card forcibly.
- ◆ Format the Micro SD card,this can improve the

compatibility of Micro SD card.

◆ To remove the card from the memory card slot of the device, press the edge of the memory card in gently, the card will pop out. Then remove the card.

Note:The device will prompt “Please insert SD card”if the TF card did not installed.

Basic operation

➤ Turn On And Turn Off

1 . Long press the POWER button for 3 seconds to turn on the device. Long press the POWER button to turn off the device.




2 . Press the MENU button to enter the menu after powering on, watch the clarity of the menu characters on the eyepiece/display, open or close the night vision device according to the eyesight of different people, adjust the characters on the display to the clearest and find the approximately position between

the night vision instrument and your eyes.

3 . Press the MENU button to exit the menu, then look at the actual scene and adjust the focusing wheel according to the distance to focus until the screen image is the clearest. If the light is not enough or it is used at night, please press the IR button to turn on the infrared light and please select the IR gear according to the light at that time. The darker the light, the higher the gear adjustment. Long press the IR up button to zoom.

➤ **Changing The Modes**



The night version has 3 different modes : photo mode, video mode and playback mode. Press the Mode button can change mode.

	Photo Mode	For taking still photos.
	Video Mode	For recording video.
	Playback Mode	For playing the recorded files.

➤ **Taking pictures**

1. Turn on the device, the default is Video mode.

Please press the Mode button to switch to photo mode.

2. Zooming: Keep pressing the  or  button to zoom in or zoom out the image. the value of magnification level appears on the LCD screen.

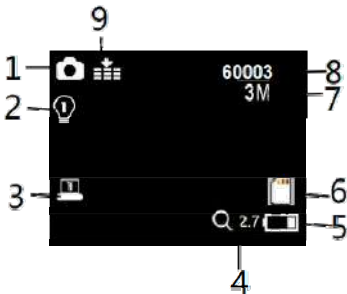
3. Take a still photo.

- View your subject via the LCD screen.

- Adjust the focus by turning the focus wheel

For night or insufficient light use, turn on the IR by pressing the IR button. Increase the brightness by pressing the button repeatedly. It has 7 levels of brightness (0) 1) 2) 3) 4) 5) 6) 7) 0...) The brightness can be adjusted according to your needs.

- Press the Shot button to take a photo.





1. Photo mode	2. Indicating IR levels (1-7) Night-vision sensitivity
3. Display brightness	4. Indicating the zoom in levels up to 4x
5. Battery level	6. TF card icon
7. Image resolution	8. Number of photos can be taken
9. Night vision sensitivity	

➤ Recording Video

1. Turn on the device, the default is Video mode. If not, press the Mode button to switch to Video mode.

2. Zooming:

Keep pressing the  or  button to zoom in or zoom out the image. The value of magnification level appears on the LCD screen.

3. Start to record video.

- View your subject via the LCD screen.

- Adjust the focus by turning the focus wheel

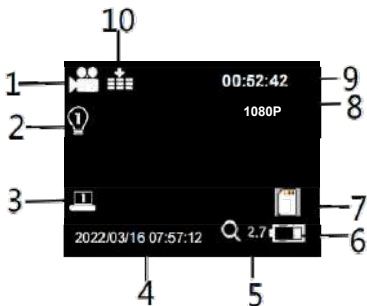
For night or insufficient light use, turn on the IR by pressing the IR button. Increase the brightness by pressing the button repeatedly. It has 7 levels of brightness (0) 1) 2) 3) 4) 5) 6) 7) 0...) The brightness can be adjusted according to your needs, darker and need adjusted more brightness.

- Press the Shot button to start to record. The record duration will be shown on the LCD screen.

4. Finish recording.

- Press the Shot button again to stop recording.

- The device will stop recording automatically once capacity of the memory card is full.



1.Video mode	2.Indicating IR levels (1-7) Night-vision sensitivity
3.Display brightness	4.Filming time
5.Indicating the zoom in levels up to 4x	6.Battery level
7.TF card icon Image resolution	8.Video resolution
9.Number of photos can be taken	10.Night vision sensitivity

➤ **Poor Image**

- ◆ If you wear glasses, please keep them on while using the device.
- ◆ If at day, make sure the IR is off (if IR is on,screen is black and white or the screen is colored)
- ◆ If at night, make sure you have turned on the IR,press IR up (if IR is on,screen is black and white).
- ◆ Adjust the focus by slowly turning the Focus wheel . Make sure it is focused.

IR – LED (Night vision function)

1. Regarding manual focusing: users can manually focus the focus wheel according to the actual observation distance to debug the best focus until the display is clear.

2. In photo/video mode, if you have to view the darkness environment, please short press IR UP

button to activate the IR LED, the image will change to black and white. The IR LED have seven levels, short press IR UP button to up the level, short press IR DOWN button to down the level. If the battery voltage is not enough, the IR LED level will down automatically. IR level can up to 7 levels when the battery power is full. If only left half power, the level just can up to 5. If only left 25% power, the level just can up to 3. If the battery power is lower than 25%, IR LED cannot be activated.

➤ **Battery charging**

Please prepare a charger with standard output of 5V/2A. After connecting the night vision device to the charger with a USB cable, the charging indicator of the night vision device will light up in red; the indicator will turn off when fully charged.

➤ Settings in Photo and Video Mode

Press Menu button in photo or video mode, can change the settings.

Menu	Function
Photo Resolution	Set the photo resolution. Options:[12M interpolation] /[8M interpolation]/[5M interpolation]/[3M interpolation]/ [2M interpolation] / [1M]/[VGA].
Video Size	Set the video resolution. Options: [1080P interpolation]/[960]/[VGA].
Night vision sensitivity	Choose the night vision sensitivity. Options:[Low]/[Middle]/[High].
Language Setting	Set OSD (on-screen) language. Options:[English]/[简体中文]/[繁體中文]/[日本語]/[Deutsch]/[Français]/[Русский]/[Italiano]/[한국어]/[Nederlands] / [Español] / [Portugués]
Date	Set the time and date of the device.

Setting	Please press the Up and Down button to adjust, press the OK button to confirm then will jump to the next one.
Auto Power-Off	Set the time to shut down the device for power saving if the device is idle. Options:[Off]/[1min] /[3min] /[5min]/ [10min].
Power Frequency	Set the light source frequency to match frequency of electricity supply in local region to prevent interference. Options:[50Hz]/[60Hz].
Date Label	Add the date stamp on photo or video files. Options: [Yes]/[No].
Format	Format your TF card. Format TF card will delete all files including the protected files. Please copy the important files before confirm. Options:[Yes]/[No].

Restore Factory	Restore the setup to factory default settings. Options:[Yes] /[No].
Version	User can see the firmware version information.
Screen Brightness	Adjust the screen brightness as required. Options:[Level1]/[Level 2] /[Level 3] /[Level 4]/[Level 5]/[Level 6] /[Level 7].

➤ **Playback**

1. Turn on the device, press the Mode button to switch to playback mode.
2. Press Up or Down button to view photos and video files.
3. Playback the video
 - Press the Shot button to start playing the video files.
 - Press the Shot button again to have a pause.
 - Press Menu button to stop the current video playing.

Press Menu button in playback mode, the screen will display the playback menu. Press Up/Down button to scan lock or delete. And press Shot button to select one to enter the sub-menu.

Playback menu list :

Menu	Function
Delete This	Delete the current file in the memory card. Options:[YES]/[NO].
Delete All	Delete all files in memory card. Options:[YES]/[NO].
Lock This	Lock the current file in memory card. Options:[YES]/[NO].
Lock All	Lock the all file in memory card. Options:[YES]/[NO].
Unlock This	Unlock the current file in memory card. Options:[YES]/[NO].
Unlock All	Unlock all file in memory card. Options:[YES]/[NO].

➤ **New and Special Color Effects:**

Luminous Green Color Effect & Film Color Effect.

These 2 color effects are available in both normal mode and infrared night vision mode.

Steps:

Long press "Menu" ->Luminous Green Color Effect,

Long press "Menu" ->IR light Effect,

Long press "Menu" ->Get back to the normal color mode.

Download files to PC

There are two ways to download files from the device to a computer:

- By inserting the memory card into a card reader.
- By connecting the device to a computer using the supplied USB cable.

Using a Card Reader

1. Eject the memory card from the device and insert it

into a card reader. Then connect the card reader to a computer.

2. Open [My Computer] or [Windows Explorer] and double-click the removable disk icon that represents the memory card.
3. Copy images from the card into a directory of your choice on the computer's hard disk.

Connecting the Device to a PC through the USB Cable

1. Turn on the night vision. Connect it to a computer through the supplied USB cable.
2. When connecting to the computer, it will appear "USB" icon on the screen.
3. Open [My Computer] or [Windows Explorer]. A "Removable Disk" appears in the drive list. Double-click the "Removable Disk" icon to view its contents. Files stored on the camera are located in the folder named "DCIM".

4. Copy the photos or files to your computer.

NOTES on Cleaning

Before cleaning the device, disconnect it from the power supply ! Only use a dry cloth to clean the exterior of the device. To avoid damaging the electronics, do not use any cleaning fluid. Clean the eyepieces and/or lenses only with a soft, lint-free cloth, (e.g.microfibre cloth). To avoid scratching the lenses, use only gentle pressure with the cleaning cloth. Protect the device from dust and moisture. Store it in a bag or box.

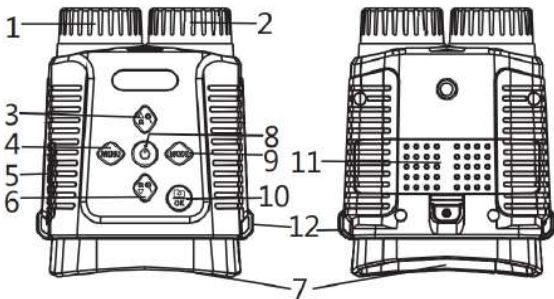
使用说明书



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产品外观



1.手动调焦轮	2.红外发射器
3.IR 加档/放大/向上键	4.菜单键
5.USB 接口/TF 卡槽盖	6.IR 减档/缩小/向下键
7.目镜/显示屏	8.电源键
9.模式键	10.快门键/确认键
11.电池仓	12. 挂绳孔

规格参数

- 照片分辨率：12M(4000x3000)插值/
8M(3264x2488)插值/ 5M(2592x1944)插值
/3M(2048x1536)插值/ 2M(1600x1200)插值
/1.3M(1280x960)/VGA(640x480)
- 视频分辨率：1080P(1440x1080@30FPS)插值、
960P(1280x960@30FPS)、
VGA(640x480@30FPS)
- 镜头：F1.2 大孔径， $f=25\text{mm}$ ，自动红外滤光片
- 镜头角度：FOV=10°，口径 24mm
- 显示屏：内屏为 2.4 英寸 720*320 TFT LCD
- 存储卡：TF 卡, 最高支持 32GB
- USB 接口：TYPE-C
- 自动关机：关闭/1 分钟/ 3 分钟/ 5 分钟/ 10 分
- 红外灯：3W，850nm 强红外聚光灯,7 档红外调节
- 完全黑暗中的视距：大约 250-300 米
- 微光视距：3 米~无穷远

- 数码变焦：4 倍数码变焦
- 颜色特效：彩色、黑白、夜光绿、红外光
- 电源：聚合物电池，2260MAH
- 语言：多种语言可选
- 日期印记：支持设置日期和时间。照片和视频文件上的日期和时间戳
- 操作按钮：6 个按钮
- 工作温度：-20°C to +50°C
- 储存温度：-30°C to +60°C

插入内存卡

- ◆ 请提前准备好一张 class 10 的 TF 卡（最大支持 32GB）。
- ◆ 打开 TF 卡槽盖可看见卡槽。
- ◆ 确保 TF 卡方向正确，插入 TF 卡，禁止强制插卡。
- ◆ 使用前先格式化 TF 卡，可提高电池寿命和快门速度以及 TF 卡的兼容性。
- ◆ 轻按 TF 卡边缘，可弹出 TF 卡。

注意 :若你没有插入 TF 卡或者卡没有插对 ,会出现“请插入 TF 卡” 这样的提示。




基本操作

➤ 开关机



1. 长按电源键 3 秒可开启夜视仪。再次长按电源键 3 秒可关闭夜视仪。
2. 开机后按 MENU 键进入菜单，观看目镜/显示屏上菜单字符的清晰度，根据不同人的视力，拉开或拉近夜视仪，把显示屏字符调节到最清晰为止，找到夜视仪距离眼睛的大约位置。
3. 然后按 MENU 键退出菜单，再看实际景物，根据距离调节调焦轮进行调焦直至屏幕影像最清晰为止。若光线不足或者是在晚上使用时，请短按 IR 加档按键打开红外灯，请根据当时的光线选择 IR 档位。光线越暗，档位调节要越高。长按 IR 向上键可变焦。

➤ 调整模式

此款夜视仪有 3 种模式: 拍照模式, 录像模式和回放模式。按模式键可切换不同模式。

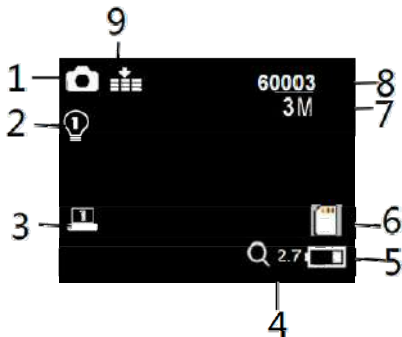
	拍照模式	拍摄静止图片
	录像模式	录制视频
	回放模式	回放图片/视频文件

➤ 拍照

1. 开机后默认为录像模式, 如要拍照, 请按模式键切换至拍照模式。
2. 缩放: 长按  或  键可放大或缩小图像。缩放值会显示在 LCD 屏幕上。
3. 拍照
 - 镜头对准目标物, 通过屏幕观察。
 - 通过转动调焦轮调整聚焦, 屏幕显示最清晰为准, 若在夜间或光线不足的情况下使用时, 按下红外按钮打开红外。反复按下按钮, 增加亮度。它有 7 个亮度等级(0 >



1 > 2 > 3 > 4 > 5 > 6 > 7 > 0...)可根据实际的光线调整 IR 灯的档位。光线越暗，档位调节要越高。

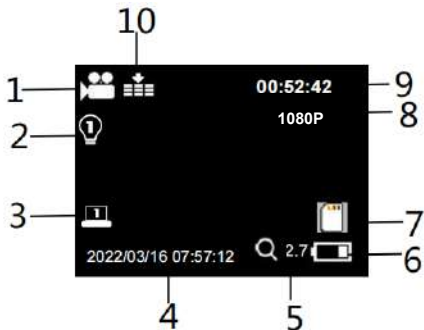
- 按快门键拍摄照片。



1	拍照模式	2	红外灯档位
3	显示屏亮度	4	数码变焦指示
5	电池电量	6	TF 卡提示
7	图片分辨率	8	可拍照张数
9	夜视灵敏度		

➤ 录像

1. 开机，开机后默认为录像模式，如果不是按模式键切换至录像模式。
2. 缩放:长按  或  键可放大或缩小图像。缩放值会显示在 LCD 屏幕上。
3. 开始录像
 - 镜头对准目标物，通过屏幕观察。
 - 若在夜间或光线不足的情况下使用时，按下红外按钮打开红外。反复按下按钮，增加亮度。它有 7 个亮度等级(0 > 1 > 2 > 3 > 4 > 5 > 6 > 7 > 0...)可根据实际需要调整亮度。光线越暗，档位调节要越高。
 - 按快门键开始录像。录像时长会显示在屏幕上。
4. 结束拍摄
 - 再次按快门键停止录像。
 - 当内存容量满时，机将自动停止录像。



1	录像模式	2	红外灯档位
3	显示屏亮度	4	拍摄时间
5	数码变焦指示	6	电量
7	TF 卡提示	8	视频分辨率
9	可拍摄时间	10	夜视灵敏度

➤ 图像不佳

- ◆ 如果您戴眼镜，请在使用设备时戴上眼镜。
- ◆ 如果在白天使用时，请确保红外灯已关闭（如果

红外灯打开，则屏幕显示为黑白，若红外灯关闭时屏幕显示为彩色）

- ◆ 如果在晚上或者光线不足的情况下使用，请确保已打开 IR，然后向上按 IR（如果 IR 打开，则屏幕为黑白）根据实际情况调整最合适的亮度。
- ◆ 通过缓慢转动调焦轮来调节聚焦。确保已对焦。

IR - LED 夜视功能:

1. 关于手动调焦： 如果距离观察的目标较远，请将镜头向左旋转。如果距离观察的目标较近，请将镜头向右旋转。用户可以根据实际的观察距离反复调试最佳的焦距，直至显示清晰为止。

2. 在拍照/录像模式下，如需要观察较暗环境时，请短按 IR 加档按键打开红外灯，此时图像会变成黑白。红外灯共有 7 个档位，通过按 IR 加档键加档，按 IR 建档键时减档。（电池电压不够时也会自动减档：满电时可以开到 7 档，2 格电时只能开到 5 档，一格电时只能开到 3 档，低于一格电不能开红外灯）。

➤ 电池充电

请自备标准输出 5V/2A 的充电器，用 USB 线将夜视仪与充电器相连接后，夜视仪充电指示灯亮红灯；充满电后指示灯熄灭。

➤ 拍照和录像模式下菜单

在拍照和录像模式下，按菜单键可修改设置。

菜单	功能
拍照分辨率	设置照片分辨率。选项: [12M 插值]/[8M 插值]/ [5M 插值]/[3M 插值]/[2M 插值]/[1.3M]/[VGA]。
录像分辨率	设置视频分辨率。 选项:[1080P 插值]/[960P] /[VGA]。
夜视灵敏度	选择夜视灵敏度。选项:[低]/[中]/[高]。
语言设置	选择屏幕显示语言。 选项:[English]/[简体中文]/[繁体中文]/ [日本語] /[Deutsch]/[Français]/[Русский]/[Italiano]/[한국어]/ [Nederlands]

	/[Español] /[Portugués]
日期 时间	设置机器的时间和日期。按上下键进行调节，按 OK 键确认后会跳转到下一个。
自动 关机	设置机器闲置时的自动关机时间，以便节省电量。选项:[关]/[1 分钟]/[3 分钟]/[5 分钟]/[10 分钟]。
电源 频率	根据你所在地区设置光源频率。 选项:[50Hz]/[60Hz]。
日期 标签	在照片或视频文件上添加时间水印。 选项:[是]/[否]。
格式化	格式化存储卡会删除包括锁定文件在内的全部文件。格式化前，请将重要文件拷贝到电脑中。选项:[是]/[否]。
恢复出 厂值	恢复所有设置为出厂值。 选项:[是]/[否]。
软件 版本	用户可以查看机器当前的固件版本信息。
亮度	可根据需求调节屏幕亮度。选项：【亮度 1】 / 【亮度 2】 / 【亮度 2】 / 【亮度 4】 / 【亮度 5】 / 【亮度 6】 / 【亮度 7】

➤ 回放

1. 开机，按模式键切换至回放模式。

2. 按上/下键浏览照片和视频文件。

3. 回放视频

- 按快门键开始播放录像视频。

- 再次按快门键暂停播放。

- 按菜单键停止播放当前视频。

回放模式下，按菜单键显示回放菜单。按上/下键选择“文件锁定”和“文件删除”。按快门键确定选择一项菜单进入选项界面。按菜单键返回上一级。

回放模式下菜单：

菜单	功能
删除当前	删除当前文件。选项：[是]/[否]。
删除所有	删除所有文件。选项：[是]/[否]。
加锁当前	锁定当前文件。选项：[是]/[否]。
全部加锁	锁定全部文件。选项：[是]/[否]。
解锁当前	解锁当前文件。选项：[是]/[否]。
全部解锁	解锁全部文件。选项：[是]/[否]。

➤ 颜色特效功能

在正常彩色模式和开红外灯夜视黑白模式下都可分别开启颜色特效功能：

长按“MENU”键 3 秒---》切换“夜光绿”颜色效果，
长按“MENU”键 3 秒---》切换“红外光”颜色效果，
长按“MENU”键 3 秒---》返回正常颜色模式。

下载文件到电脑

有两种方法可以将图像从夜视仪的存储卡下载到计算机中：

1. 将 TF 卡插入闪存读卡器中
2. 用附带的 USB 线将夜视仪与电脑相连。

使用读卡器

1. 将 TF 卡从机器中弹出，然后插入读卡器，连接到电脑。
2. 打开[我的电脑]或 Windows 资源管理器，双击代表存储卡的可移动磁盘。

3. 将文件从存储卡上拷贝到计算机中你选择的目录下。

通过 USB 线将摄像机连接到计算机

1. 开启夜视仪。通过 USB 线将机器连接到计算机。
2. 屏幕上会显示“USB 图标”。
3. 打开[我的电脑]或 Windows 资源管理器。双击代表存储卡的可移动磁盘。
4. 将文件从存储卡上拷贝到计算机中你选择的目录下。

清洁机器

在清洗机器之前，请先断开电源！

只需用一块干布清洁机器的外部。为了避免损坏机器，不要使用任何清洁液。清洁目镜和/或镜片时，请使用柔软的无绒布(如超细纤维布)。为了避免刮伤镜片，只需用清洁布轻轻按压即可。

保护好机器免受灰尘和潮湿，用袋子储存或者储存在包装盒内。

