

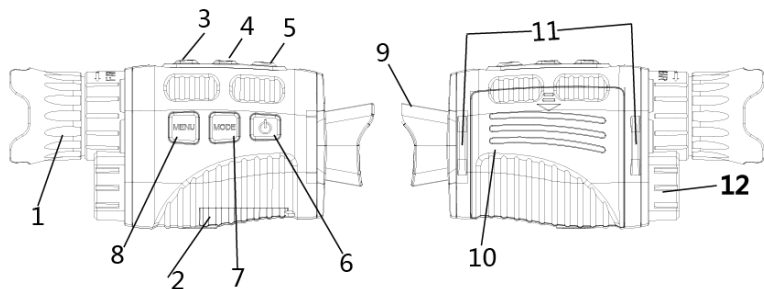
User Manual



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➤ Product Overview



1.Lens with manual focus	7.Mode Button
2.USB port/Micro SD card slot Cover	8.Menu Button
3.IR Up/Zoom in/Up Button	9.Display Screen
4.IR Down/Zoom out/Down Button	10.Battery Cover
5.Shot Button	11.Strap Hole
6.Power Button	12.Infrared filter cap

➤ Specification

- Photo Resolution: 1M(1280x960)by interpolation / VGA(640x480)
- Video Size: 960P(1280x960@30FPS)by interpolation /

VGA(640x480@30FPS)

- Aperture: F 1.2 f=25mm
- Lens Angle: FOV=10° , diameter is 24mm
- Display Screen: Inner screen is 1.5” TFT LCD, Outer screen is 40x30mm with 3X large window magnifier
- Digital Zoom: 4X
- Storage Media: Micro SD card, up to 32GB
- Viewing Distance in all dark: 150-200M
- Viewing Distance in weak light or day time: 3M~infinity
- IR LED: 3W,850nm strong infrared spotlight,7 grades infrared adjustment
- Operation Buttons:6 buttons
- USB Port: Micro USB 2.0
- Power Source: 7.5V, 5xAA
- Operating Temperature: -20℃ to +60℃
- Storage Temperature: -30℃ to +70℃
- Dimension: approx.149*63*49mm
- Net Weight: approx.170g

➤ **Insert or replace batteries**

Remove the battery cover on the right side of the device. Slide it gently down to open the compartment. Insert five AA (1.5V LR6) batteries.

Observing the correct polarity indication. Close the battery compartment with the battery cover.

➤ **Insert Micro SD card**

Please prepare a Micro SD card (up to 32GB) in advance. Open the card slot cover. Insert the Micro SD card into the slot (2). Make sure the direction is right. Never insert the card forcibly. Format the Micro SD card, this can improve the battery life and shutter speed. 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.

Basic operation

➤ Starting up

Keep pressing the power button (6) for 3 seconds to turn on the device.

Keep pressing the power button (6) for 3 seconds again to turn off the device.

➤ Changing The Modes

The night version has 3 different modes: photo mode, video mode and playback mode. Press the mode button (7) to change modes.

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

➤ Taking pictures

1. Turn on the device, the default is Video mode, press the mode button (7) to switch to photo mode.

2. Zooming:

Keep pressing the or button (3 / 4) to zoom in or zoom out.

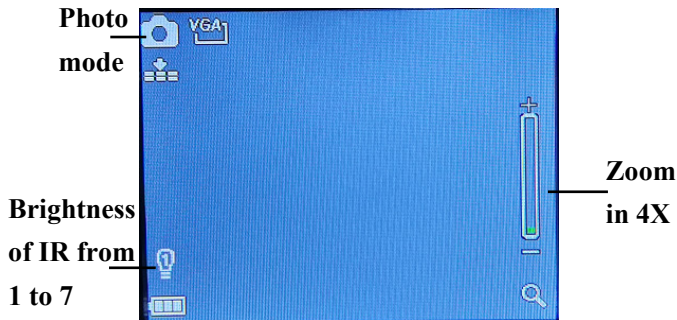
The value

of magnification level appears on the LCD screen.

3. Take a still photo.

- View your subject via the LCD screen.

- Press the shot button (5) to take a photo.



➤ Recording Video

1. Turn on the device, the default is Video mode. If not, press the mode button (7) to switch to video mode.

2. Zooming:

Keep pressing the or button (3 / 4) to zoom in or zoom out the image.

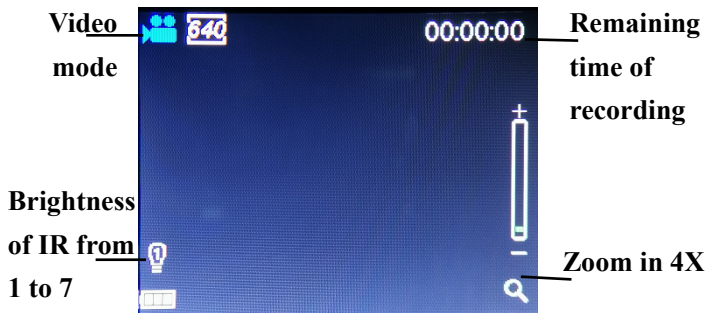
The value of magnification level appears on the LCD screen.

3. Start to record video.

- View your subject via the LCD screen.
- Press the shot button (5) 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.



Note: If you are too close or too far from the target, the quality of the photos or videos will not be optimal. Rotate the lens to the left or the right to focus the observation object.

There is no sound in the video files. Because the observation distance is far, the sound cannot be transmitted.

IR – LED (Night vision function)

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.

Note: 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.

➤ **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:[1M 1280x960] / [VGA 640x480]
Video Size	Set the video resolution. Options:[960 1280x960]/[640 640x480].
Night vision sensitivity	Choose the night vision sensitivity. Options:[Low]/[Middle]/[High].
Power Frequency	Set the light source frequency to match frequency of electricity supply in local region to prevent interference. Options:[50Hz]/[60Hz].
Power Save	Set the time to shut down the device for power saving if the device is idle. Options:[3min]/[5min]/[10min]/[OFF].

Date&Time	Set the date and time of device.
Date Stamp	Add the date stamp on the photo or video files.Options:[Off]/[Date]/[Date&Time].
Language	Set OSD (on-screen) language. Options:[English]/[Simplified Chinese]/ [TraditionalChinese]/[French]/ [Nederlands] / [Espanol]/[Italiano]/ [Portugues] / [Deutsch]/[Russian]/ [Japanese]/[Korean].
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].
Reset All	Restore the setup to factory default settings.Options:[Yes]/[No].
FW Version	User can see the firmware version information.

➤ **Playback**

1.Turn on the device, press the Mode button to switch to playback mode.

2.Press Up/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
Lock	Lock or unlock the current one file or all files in memory card. Options:[Lock/Unlock one]/[Lock All]/ [Unlock All].
Delete	Delete the current one file or delete all files in memory card.Options:[One]/[All].

Download files to PC

➤ **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 "MSDC" 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.

➤ **Care and maintenance**

Clean the device only with a dry or slightly damp, lint-free cloth.

Do not use abrasive cleaners to clean the device.

This device is a high-precision optical instrument, so in order to avoid damage, please avoid the following practice:

- Use the device in ultra-high or ultra-low temperature.
- Keep it or use it in moist environment for long.
- Use it in rainfalls or in water.
- Deliver or use it in strongly shocking environment.

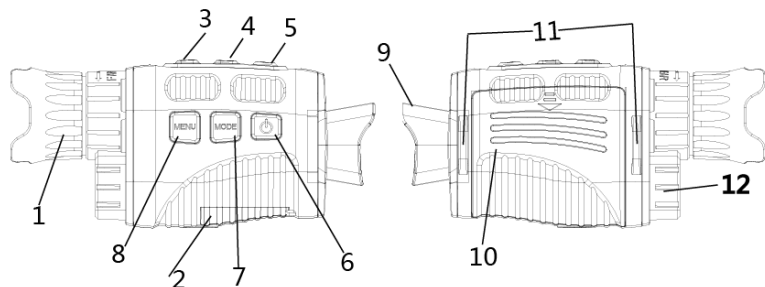
Remove the batteries from the device if it is not used for a longer time.

使用说明书

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➤ 产品外观



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

➤ 规格参数

- 静态图片尺寸: 1M(1280x960)/VGA(640x480)
- 视频尺寸:
960P(1280x960@30FPS)/VGA(640x480@30FPS)
- 光圈: F 1.2 f=25mm
- 镜头: FOV=10°, 口径 24mm
- 显示屏: 内屏 1.5" (480*240)高清 TFT ;
- 数码变焦: 4 倍
- 存储介质: TF 卡 , 最大支持 32GB
- 全黑观察距离: 150-200M
- 弱光或者白天观察距离: 3 米~无限远
- 红外灯: 3W , 850nm , 强红外聚光灯 , 7 档红外调节
- USB 接口: MICRO USB 2.0
- 电源 : 7.5V, 5 节 5 号 AA 品牌碱性电池
- 操作温度 : -20°C to +60°C
- 存储温度 : -30°C to +70°C
- 产品尺寸: 大约 149*63*49mm
- 产品重量: 大约 170g

➤ 安装电池

- ◆ 使用前请先安装电池。
- ◆ 打开夜视仪后面的电池盖。
- ◆ 安装 5 节 1.5V 5 号 AA 品牌碱性电池。确保电池极性对应正确。
- ◆ 盖上并关紧电池盖。

➤ 插入内存卡

- ◆ 请提前准备好一张 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。
- ◆ 使用前先在本产品上格式化 TF 卡，可提高对卡的稳定性。
- ◆ 轻按 TF 卡边缘，可弹出 TF 卡。

基本操作

➤ 开关机

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。

➤ 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

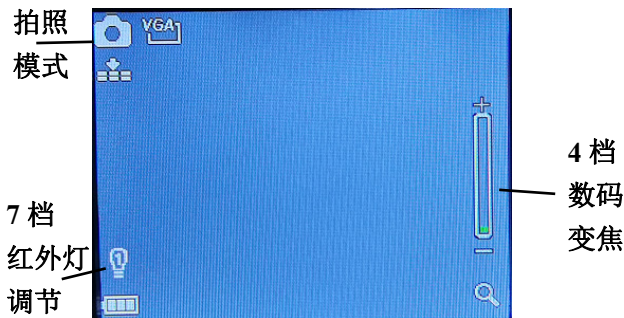
1. 开机后请按模式键切换至拍照模式。

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（图 1）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(图 3)
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（图 5）拍摄照片。



➤ 录像

1. 开机默认模式为录像模式。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。

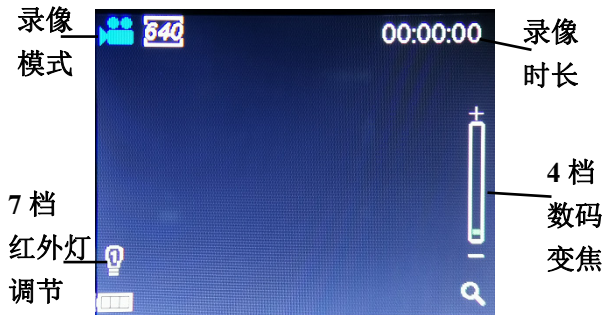
3. 开始录像

- 镜头对准目标物，通过屏幕观察。

- 通过转动调焦轮（图 1）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(图 3)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，机器将自动停止录像。

IR - LED(夜视功能):

1. 关于手动调焦：机器左边镜头上标有“Far”和“Near”。如果观察距离较远，请将镜头向左旋转。如果观察距离较近，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。

2. 录像是没有声音的。

因为观察距离远，声音无法由远距离传播过来。

3. 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）。

➤ 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
图像分辨率	设置照片分辨率。 选项:[1M 1280x960]/[VGA 640x480]。
视频分辨率	设置视频分辨率。 选项:[960 1280x960]/[640 640x480]。
夜视灵敏度	选择夜视灵敏度。选项:[低]/[中]/[高]。
电源频率	根据你所在地区设置光源频率。 选项:[50Hz]/[60Hz]。
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:[3 分钟]/[5 分钟]/[10 分钟]/[关闭]。
日期时间	设置机器的时间和日期。
日戳	在照片或视频文件上添加时间水印。 选项:[关闭]/[日期]/[日期&时间]。

语言	选择屏幕显示语言。 选项:[英语]/[简体中文]/[繁体中文]/[法语]/[荷兰语]/[西班牙语]/[意大利语]/[葡萄牙语]/[德语]/[俄语]/[日语]/[韩语]。
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]。
FW 版本	用户可以查看机器当前的固件版本信息。

➤ 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”。按快门键选择一项菜单进入选项界面。

回放模式下菜单:

菜单	功能
文件 锁定	锁定或解锁单个文件或全部文件。 选项:[锁定/解锁单张]/[锁定所有]/[解锁所有]。
文件 删除	删除单个或全部文件。 选项:[删除单张]/[删除所有]。

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 “MSDC” 。
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。

保养与维护

只能使用干燥或稍湿的无绒布清洁设备。

请勿使用研磨剂清洁设备。

此设备是高精度光学仪器，因此为了避免损坏，请避免以下做法：

- 请在极高或极低的温度下使用设备。
- 请保管好或在潮湿的环境中长时间使用。
- 请在降雨或水中使用。
- 请在强烈震动的环境中运输或使用

如果机器较长时间不使用，请将电池取出。

