

User Manual



Introduction

Thank you for choosing this camera. The camera is specially used to record activities of wild animals. For your easier use of it, the user manual contains full specifications of operation. Please carefully read the manual before using, and keep it at a safe place for future reference.

The compilation of the user manual refers to the latest information. The manual quotes captured screen displays and graphics, with the aim to introduce the digital camera through detailed and direct methods. Due to the differences of technical R&D and production batch, those captured screen displays and graphics indicated in the manual may be different from that of actual digital camera.

Precautions

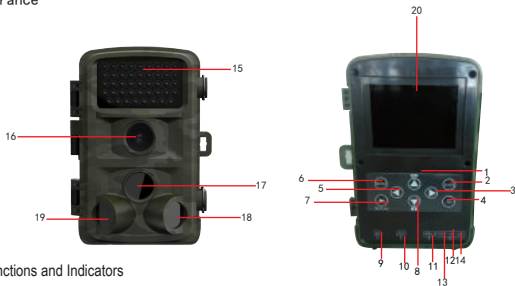
TF high-speed card (multimedia memory card) at Class6 or above is required for this camera.

Instructions for using the memory card

- In case of a newly purchased memory card for the first time use, or data available in the memory card unrecognized for the camera or image captured by other cameras, please ensure to firstly format the memory card.
- Before plugging in or out the memory card, please firstly disconnect power supply of the camera;
- After using for many times, performance of the memory card will be lowered. In case of lowered performance, a new memory card is needed to purchase
- The memory card is a precise electronic device. Please don't bend it and keep it away from falling or heavy load
- Don't keep the memory card in the environment with strong electromagnetic or magnetic field, like the place near speaker or receiver of TV;
- Don't use or keep the memory card in environment with over high or low temperature;

- Keep the memory card clean and away from contacting liquid. In case of contacting liquid, please dry it with soft cloth
 - In case of keeping the memory card idle, place it into the card sleeve
 - Please note that the memory card will get hot after long-term use, and this is normal
 - Don't use the memory card having used on other digital cameras. If to memory card on this camera, please firstly format it with the camera
 - Don't use the memory card having formatted on other camera or card reader;
 - In case of one of the followings with the memory card, the recorded data may be damaged
- Improper use of the memory card
 - Disconnect power supply or take the memory card out during recording, deleting (formatting) or reading;

Appearance



Key Functions and Indicators

Controls

- | | |
|------------------|-------------------------|
| 1. up button | 12. OFF |
| 2. Right button | 13. Test |
| 3. Shot button | 14. ON |
| 4. OK button | 15. Infrared LEDs |
| 5. Left button | 16. Lens |
| 6. Menu button | 17. Front motion sensor |
| 7. Replay button | 18. Right motion sensor |
| 8. Down button | 19. Left motion sensor |
| 9. TF slot | 20. Display screen |
| 10. AV jack | |
| 11. usb jack | |

Getting started

1. Battery/Adapter

Please make sure to place batteries in the camera before using.

1.1 First open the camera by swiveling the base plate. Find the battery compartment cover to open it. Insert 4 or 8pcs X1.5V AA batteries into the battery slot. ◦

1.2 If you put inside 4pcs X1.5V batteries, make sure to place them all in first half of the battery compartment or the second half battery compartment. 4pcs batteries are not allowed to put in both first half or second battery compartment.

1.3 If the adapter (not supplied) is used for power supply, open the round rubber seal on the base plate and connect the plug of the adapter cable into the socket.

2 Inserting memory card

2.1 Insert the memory card as indicated by the icon into the slot until the card totally inside.

2.2 To remove the memory card, gently press the edge of the memory card until it pops out.



Note: The camera doesn't have built-in memory. A memory card must be inserted into the camera before using. After inserting the memory card, make sure to format the memory card on the camera first.

3 Power on and off/ System settings

After placing the batteries into the camera, put the operating mode selector switch to "TESE" position to make the settings described on the following pages. In TEST mode, the infrared lamp is closed.

- 3.1 To put the operating mode selector switch from “OFF” to “TEST”, the camera is on.
- 3.2 Press the Up/Down key to switch modes between photo and video mode
- 3.3 Press the MENU key to open settings menu. Press OK to confirm the setting changes.
- 3.4 Press the MENU key one more time to return to previous menu or exit the menu settings.
- 3.5 Put the operator mode selector switch to “OFF” to power off the camera.

4 Working modes

There are three working modes in the camera: Photo mode, Video mode, Photo+Video mode.

4.1 Photo mode

Select a photo size: 1MP, 3MP, 5MP, 8MP, 12MP. The larger the file size is, more detailed the photos are. However, the larger size files take more memory space to store.

4.2 Video mode

Select the video resolution: 1920X1080.1280X720.720X480.640X480.320X240. The higher the resolution is, more detailed the videos are. However, the larger size files take more memory space to store.

4.3 Photo+Video mode

In Photo+Video mode, the camera first takes a photo and then starts filming video.

Note: The camera would enter power save mode and screen turns off when recording. The screen could be turned on by pressing any keys on the camera.

5.Time&Date

Here you can set the date format (dd/mm/yyyy yyyy/mm/dd mm/dd/yyyy), the time format (12/24hr). Press Left/Right key to choose the number and change the value by pressing Up/Down key. Confirm the changes with OK key.

6. Video length

The video length is optional between 1-60seconds or 1-10 minutes. The longer the recording time selected, the shorter the operating time is. The preset video length is 30 seconds.

7. Shot lag

The shot lag time can be selected between 5-60 seconds or 1-60 minutes.

During the selected interval, the camera will not record any images or videos. It prevents the memory card from being filled up with too many recordings of the same event.

8. Sensitivity of the motion sensors

The sensitivity of the main motion sensor is set here. For interior areas and environments with little interference, select "High". Select "Medium" for exterior areas and environment with a normal amount of interference, and select "Low" for a environment with a high level of interference.

9. Target recording time

Select "ON" to set the target working time of the camera. Time of starting working and ending working can be set. After finishing setting, the camera only works during the setting time every day. Beyond the period, the camera is in standby.

10. Password protections

Select "ON" to set the password of the camera. The password is a 4-digit number selected between 0-9. If the password is lost, press keys of MENU and REPLAY at the same time, and slide the operating mode selector switch from OFF to TEST position. The camera is unlocked.

11. Serial numbers

Select "ON" to set the serial number for the camera. The serial number is a 4-digit number selected between 0-9.

12 . Time lapse

Select "ON" to set the time interval, and set the values of Hr, Min and Sec. For example, if the process of flowers blooming has to be recorded, time lapse can be used. The camera automatically takes pictures in every setting time interval.

13.Aligning the camera

In test mode you can work out the optimum exposure angle and the range of the motion sensor.

13.1 During alignment, consider whether the use of the side motion sensors may be useful for attaining the desired observation results.

Align the camera as follows:

Fasten the camera to a tree or similar object at a height of 1-2 meters and align the camera in the desired direction. Then move slowly from one side of the target area to the other side. While doing this, monitor the motion display.

If this lights up in blue, you have been detected by one of the activated side motion sensors. If it lights up in red, you have been detected by the front motion sensor. In this way, you can work out the best alignment for the camera.

The motion display only lights up when operating mode selector switch is in the TEST position and one of the motion sensors has detected movement. During normal operation, there will be no LED display in this area.

To ensure that the camera doesn't make unwanted recordings of irrelevant movements, it should not be set up in a sunny location or close to branches. The detecting range of the sensors is 110°. And the recording angle of the camera is about 100°.

14 .Activating live mode

The normal operating mode of the camera is so-called live mode.

In this mode, recordings are triggered via the motion sensors.

To set live mode, slide the operating mode selector switch to the "ON" position. After 15 seconds, the LED of motion display will go off.

Then the camera will start to operate independently and will go into standby mode. As soon as any wild animals or similar enter the detecting range of the side motion sensors, the camera will be activated and detect the motion. If the wild animal keeps moving to the detecting range of the central sensor zone, the camera will start capturing photos and/or videos (depending on the configuration).

After the wild animal moves out of the detecting range of side motion sensors, the camera switches off and goes back into standby mode.

15.Night exposures

15.1 During night exposures the infrared LEDs on the front of the camera provide the required light for taking pictures. The range of the LEDs makes the camera to shooting pictures within 3m-20m.However, reflective objects can cause overexposure.

15.2 Please note that pictures taken in night exposures are black and white. When recording a video for a long time, the low voltage may have great influence on the stability of the camera. So in case of the low voltage, it better not to record in the evening.

16 Playback

16.1 Take down the camera from where it's fixed. Slide the operating mode selector switch to the "TEST" position. Press playback key and Up/Down key to review the photos/videos. While reviewing photos, press Up/Down key to page up/down. While reviewing videos, press OK key to start playing, press OK one more time to stop. Press Playback key to return into standby.

16.2 Delete selection

You can use this function to delete individual recordings from the memory card. Press MENU key under the mode of playback, move the select bar to "Delete current file" and press OK to delete the selected recording.

16.3 Delete all recordings

You can use this function to delete all recordings from the memory card. Press MENU key under the mode of playback, move the selection bar to "Delete all files" and press OK to delete all recordings.

16.4 Activate slide show

This function can be used to play back the photos stored on the memory card automatically. Each photo is shown for about 2 seconds. To stop the slide show and keep the current image permanently on the screen, press the OK button.

16.5 Write protection

This function can be used to protect individual recordings of all saved recordings from accidental deletion.

Select “Write-protect current file” to protect the currently selected recording from accidental deletion.

Select “Write-protect all files” to protect all saved recordings from accidental deletion.

Select “Unlock current file” to remove the write protection for the currently selected recording.

Select “Unlock all files” to remove the write protection for all saved recordings.

17.TV connections

The camera can transfer the video signal to an external monitor or the video input of a television set. Please also follow the instructions of the respective playback device.

17.1 Open the TV, connect the TV with the camera through data cable

17.2 Open the camera, and slide the operating mode selector switch to “TEST”

17.3 After connecting, the camera enters the mode of playback and the LCD turns off. What the camera captured would be shown on the TV.

18.Transferring recordings to a computer

Connect the camera with the computer through the cable. After successful connection, there would appear a new driver named mass storage on the computer. Photos and videos can be found in “DCIM/100MEDIA” in the mass storage and can be copied to the computer.

Note: In case of data loss, please don't disconnect the cable or take out the memory card when copying photos/videos.

Specifications

Image sensor	5MP CMOS sensor
Function modes	Video recording/Photo/Playback

Lens	F2.5 f=3.6mm
LCD	2.4inch LCD
Photo resolution	12M (4000 x 3000), 8M (3264 x 2448) 5M (2592 x 1944), 3M (2048 x 1536) 1M(1280 x 960)
Video resolution	1920x1080, 1280x720, 720x480, 640x480, 320x240
Memory type	TF card(up to 32GB max)
File format	JPEG, avi
USB connection	USB 2.0
Power	6V
language	English/French/Spanish/German/Portuguese/Italy/Chinese
OS	Windows XP/Vista/7/8, Mac 10.2
Dimension	97x140x67mm

Note: Specification could be subject to modification due to updating. Please regard the actual product as the standard form.

用户手册



功能介绍

感谢您购买这台打猎机。本产品是一款专门用于记录和观察野生动物的数码相机。为了您能尽快轻松自如地操作本机，我们配备了内容详细的使用手册。本手册为您系统的介绍了本打猎机使用说明等。请在使用前仔细阅读本手册，以便您快速正确地掌握方法。

本使用手册所涵盖的内容参考的是，使用手册编写时的的最新信息。本手册中所采用的屏幕显示、插图等是为了更详细直观地阐述摄像机的操作。由于技术开发和生产批次的不同，它们可能会与您实际使用的数码摄像机稍有不同。

使用须知

本摄像机须使用Class6或以上级别的TF高速卡（多媒体存储卡）。

存储卡使用说明

- 若首次使用新购的存储卡，或存储卡内有摄像机无法识别的数据或其它摄像机拍摄的图象时，请确保先格式化存储卡。
- 插入或取出存储卡前，请先关闭摄像机电源。
- 多次使用存储卡后，会降低其性能。若存储卡性能降低，需购买新的存储卡。
- 存储卡为精密电子装置。请勿弯折存储卡，且避免掉落或受重压。
- 请勿将存储卡置于强电场或磁场环境中，如扬声器或电视接收器附近。
- 请勿在过热或过冷环境中使用或置放存储卡。
- 请保持存储卡清洁，避免接触到任何液体。若存储卡接触到液体，请用软布擦干。
- 存储卡不用时，请将其放在卡套中。
- 请注意，存储卡长时间使用后会变热。这种情况完全正常。
- 若存储卡出现下列情况之一，可能会损坏记录数据：
 - 存储卡使用不当。
 - 录制、删除（格式化）或读取时，关闭电源或取出存储卡。

外观简介



外观



摄像机按键功能和指示灯

按键

- | | |
|-----------|----------|
| 1. 向上键 | 12. 关机 |
| 2. 向右键 | 13. 测试开关 |
| 3. 快门键 | 14. 开机 |
| 4. ok键 | 15. 红外灯区 |
| 5. 向左键 | 16. 镜头 |
| 6. 菜单键 | 17. 主传感器 |
| 7. 回放键 | 18. 右传感器 |
| 8. 向下键 | 19. 左传感器 |
| 9. TF 卡插槽 | 20. 显示屏 |
| 10. AV接口 | |
| 11. usb接口 | |

开始使用

1. 电池充电

使用本产品前，请先放入电池。

1.1 打开本打猎相机，找到电池盖并打开，放入4或8X1.5VAA电池，同时确保电池极性的正确。

1.2 当使用4节X1.5V AA电池时，确保电池全部插入在上半部分或下半部分，不允许上下交叉放入。

1.3 当使用电源适配器（选配）时，在相机的底部找到橡胶密封圈并打开，用电源适配器的一端接入电源。

2. 使用存储卡

2.1 按照存储卡槽旁边的凹刻字指示，把TF卡推进卡槽直到卡完全插入为止。

2.2 要取出TF卡，轻轻地向内按压存储卡的尾部，存储卡就会弹出。



注意：本摄像机没有内置存储器，使用时请务必插入存储卡。在使用相机前，请在相机上先格式化存储卡后再使用。

2. 开关机/系统设置

放入电池后，将模式开关达到“设置”档位，进行设置。在测试模式下，红外灯关闭。

2. 1拨动开关从“OFF”打到“TEST”模式，本机开机。

2. 2按上\下键在拍照和视频模式之间切换

2. 3按菜单键打开设置菜单。按OK键保存设置

2. 4再次按菜单键返回上一级或退出。

2. 5拨动开关打到“OFF” 机器关闭。

3. 工作模式

本摄像机有三种模式；拍照模式， 摄像模式 ， 拍照+摄像模式。

3. 1 拍照模式

选择照片的像素大小分辨率分别为；1M .3M 5M 8M 12M。选择尺寸越大，图像清晰度越高，储存卡能储存的照片数量越少，反之越多。

3. 2 摄影模式

选择视频的像素大小分辨率分别为；1920X1080. 1280X720. 720X480. 640X480. 320X240。
选择分辨率越高，视频清晰度越高，储存卡能储存的视频时间越短，反之越长

3. 3 拍照+录像模式

选择拍照+摄像模式时，机器工作时；机器先拍照再录像。

注：录像过程中为了省电会自动关屏，用户可短按一下任意键开启屏幕，恢复显示。

4. 时间&日期

设置日期的格式；dd/mm/yyyy。Yyyy/mm/dd mm/dd/yyyy

设置时间格式；12或24小时制，并设置时间和日期

按左/右键选择要修改的位置，按上/下键修改数值的大小，按OK键确认

5. 视频长度

设置视频的长度（1-69秒或1-10分钟），选择越长的记录时间，操作时间越短，系统预设视频长度为30秒

6. 拍摄延时

设置拍摄的延时时间（5-60秒或1-60分钟之间）在选定的时间间隔内，相机不会记录任何图像或视频。这可以防止内存卡保存太多文件，占用内存容量。

7. 灵敏度

设置主传感器的灵敏度。在室内所受到的环境很小，应选择“高灵敏度”。在室外时，环境正常情况下选择“中灵敏度”。当外界环境对拍摄有很大影响时选择“低灵敏度”适用于寒冷的环境中。

8. 设置工作时间

设置相机只能在设定的时间内工作，将开关打到“ON”。可以设置相机工作的起始时间和结束时间。设置完成后，每天相机只会于设定的时间内工作，其他时间处于待机状态

9. 密码保护

设置相机的开机密码，将开关打在“ON”设置在一个0-9之间的4位数的组合如果忘记了开机密码，对摄像机进行复位操作，恢复到出厂默认设置。

10. 设置系列号

为了摄像机设置一个唯一的序列号，开关设置“ON”，设置一个在0-9或者字母的4位数的组合。

11. 设置拍照间隔时间

设置摄像机的自动拍照间隔时间。例如，你想观察植物的开花过程，应用此功能，设置每次拍摄的间隔时间，就可以将开花的全过程记录下来。选择“ON”，按OK键，对时，分，秒进行设置

12. 校准摄像机安装的位置

在测试模式下，可以计算出摄像机最佳的拍摄角度和摄像范围

12.1 校准时，可以选择是否使用辅传感器进行观测

校准相机位置的步骤如下；

将相机绑在树上或在1-2米高的物体上，调整摄像机镜头方向。然后再慢慢地把摄像机移动到另一侧，监控所拍摄的运动轨迹

如果对应辅传感器指示灯亮，说明辅传感器检测到了移动的物体，如果对应主传感器指示灯亮，说明主传感器检测到了移动的物体。通过这种方式，就可以计算出安装摄像机最佳的位置

只有在测试模式下，传感器检测到移动的物体时，指示灯才会变亮，正常情况下LED是熄灭的。

确保相机在工作时，不会受到不必要的干扰。应该远离阳光或靠近树枝的地方。传感器的检测范围大概是110度，镜头能拍摄的镜头大约100度。

13. 生活模式

正常操作模式即生活模式，在此模式下，通过传感器触发拍摄。在开关打在“ON”的位置进入生活模式，15秒后LED灯将会熄灭。摄像机开始独立运作并进入待机模式，一旦有动物进入了辅传感器检测的检测区域，摄像机将被激活并检测运动轨迹。如果物体继续向主传感器检测的区域移动，摄像机将自动进行拍照或摄像。如果动物离开了传感器检测的区域，摄像机就将关闭并回到待机模式。

14. 夜间模式

14.1 在夜间，红外LED灯会自动打开，为拍照提供必要的光照，LED灯照射的范围可以使摄像机大约3-20米的物体，如果碰到物体的反射时可能会造成曝光过度。

14.2 在夜间模式下，所拍摄的画面只能显示黑色或白色。当长时间记录视频时，低电压可能对机器的稳定性有很大的影响。所以在夜间低电时，不要录制视频。

15. 回放模式

15.1 将摄像机从安装的位置上取下来，将开关打到“TEST”按回放键进入回放模式。按上/下键查看所拍摄的图片或视频。回放图片时，按上/下键查看图片。回放视频文件时，按OK键开始播放，再按OK键停止播放。按回放键返回到待机模式。

15.2 删除文件

预览模式下按菜单键，提示删除当前文档，删除所有文档。幻灯片播放，卡保护。自动幻灯片播放时，自动播放储存卡里面的照片，每张照片显示2秒。按OK键停止幻灯片播放。

写保护时；防止意外删除文件。写保护当前文件/写保护所有文件/解锁当前文件/解锁全部文件

16. TV连接

本摄像机可以传输视频到外部显示器或电视机，请按以下说明操作

16.1 用AV数据线连接本摄像机和电视机。

16.2 打开电视机，将电视机

16.3 开启摄像机，将开关打到“TEST”位置

16.4 成功连接后，摄像机将进入回放模式，且LCD屏会变黑，所拍摄的画面会显示到电视机屏幕上。

17. 连接电脑下载照片/录像

摄像机连接电脑进入可移动磁盘模式后，在“我的电脑”窗口中会新增一个可移动磁盘，拍摄的照片或录像存放在可移动磁盘内“DCIM\100MEDIA”目录下，可进入此目录复制文件到您的电脑硬盘上。



注意：下载文件过程中不要断开USB连接，USB连接时不可插拔存储卡，以免数据丢失。

技术参数

图像感应器	500万像素CMOS 图像感应器
功能模式	录像、拍照、回放

镜头	F2.5 f=3.6mm
LCD显示屏	2.4英寸LCD屏
照片分辨率	12M (4000 x 3000), 8M (3264 x 2448) 5M (2592 x 1944), 3M (2048 x 1536) 1M (1280 x 960)
录像分辨率	1920x1080, 1280X720, 720X480, 640X480, 320X240
存储介质	TF卡 (最大支持32GB)
文件格式	JPEG, avi
USB接口	USB 2.0
电源	6V
菜单语言	英, 法, 西, 德, 葡, 意, 中文
操作系统需求	Windows XP/Vista/7/8, Mac 10.2
尺寸	97x140x67mm

注意：产品设计规格依此说明书编写时的最新信息制定，如有变更恕不另行通知，请以实际的摄像机为准。