TECHview

**720P Outdoor Trail Camera
with No-Glow Infrared LEDs
QC-8041
User Manual**

Please read this user manual carefully, observing, the safety instructions.

1. Box Contents

Carefully unpack camera and check that all of the following components are contained in the box:
1. 720p Outdoor Trail Camera
2. Wall Mount
3. Tree Mounting Strap
4. USB Data Cable
5. Mounting Hardware
6. This Instruction Manual

Note:
• Remove the protective foil from the camera lens by pulling the protruding tab.
• Caution! Keep plastic foil and bags away from babies and small children to avoid suffocation.

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2. Contents

3. Hazard, Safety & Warning Notices

Incorrect use of the camera and accessories can be dangerous for you and others and can damage or destroy the camera. We therefore ask you to read and strictly observe the following Hazard, safety and warning notices.

Intended Use:
• This camera is intended for taking digital photos and video clips. It has been designed for private use and is not suitable for commercial purposes.

Hazards for children and persons with limited ability to operate electronic equipment:
• The camera, accessories and packaging are not toys for children. These should therefore always be kept away from children. Danger of electrocution, poisoning and suffocation.

Electrical Hazard:
• Switch off the camera and remove the batteries if a foreign body or liquid has entered the camera. Let all parts dry thoroughly. Otherwise danger of fire or electrocution.

• Switch off the camera and remove the batteries if the camera has been dropped or the housing is damaged. Otherwise danger of fire and electrocution.

• The camera may not be dismantled, modified or repaired. Danger of fire and electrocution.

• Only use a power adaptor (not supplied) with the mains voltage specified on the rating plate (6V). Otherwise danger of fire or electrocution. Disconnect the power by pulling the power adaptor out of the socket.

• A plugged in power adaptor (not supplied) can continue to use power and therefore represents a hazard source.

• The power supply may not be used during thunderstorms. Otherwise danger of electrocution.

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Damage from heat-fire hazard:
• Do not leave the camera in places that are susceptible to considerable increases in temperature (e.g. a vehicle). The housing and internal parts may be damaged, which in turn could cause a fire.

• Do not wrap up camera or place on textiles. This could produce a build up of heat in the camera that can cause deformation of the housing and may represent a fire hazard.

Injuries and Material Damage:
• Only place the camera on sturdy surfaces. The camera could otherwise fall or topple over, causing damage or injury.

• Do not operate the camera whilst running or driving. You could fall or cause a traffic accident.

• Only use a mains adaptor (not supplied) for the camera, having the input voltage specified on the rating plate (6V). We do not accept any liability for damage caused by the use of an incorrect mains adaptor.

• The 230V socket used for the mains adaptor (not supplied) must not be covered and accessible at all times so that the mains adaptor can be quickly disconnected from the mains, when required.

• Ensure adequate ventilation and do not cover the mains adaptor (not supplied) to avoid overheating.

• Do not place any open ignition sources, such as lit candles onto or close to the device.

• Do not subject the LCD monitor to impact or pressure. This could damage the glass of the monitor or the liquid could leak from the inside. In case of contact with eyes or skin, rinse immediately with clear water. In case of contact with eyes contact a doctor immediately.

• Damage to the electronics, the monitor or the lens caused by external influences such as impacts, falls or other are not covered byt he warranty and must be paid for.

• Do not drop or bump the camera and always handle it carefully. Otherwise the camera can be damaged.

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4. Introduction

The camera is a wildlife and surveillance camera with a PIR sensor. The sensor can detect sudden changes to the ambient temperature within an evaluation area. The signals of the highly sensitive infrared sensors switch on the camera, activating picture or video mode.

Features:
• 10s-10m Motion Detection Recording
• 1-3 Quick Shot Image Capture
• Water Resistant Housing
• Time Lapse Recording
• In-Built Audio
• Time & Date Stamp
• Password Protection
• Low Battery Alarm

Areas of Application
• Camera trap for hunting
• Animal or incident observation
• Motion triggered security camera for domestic, office or public use
• Any internal and external surveillance, where evidence of an infringement has to be provided
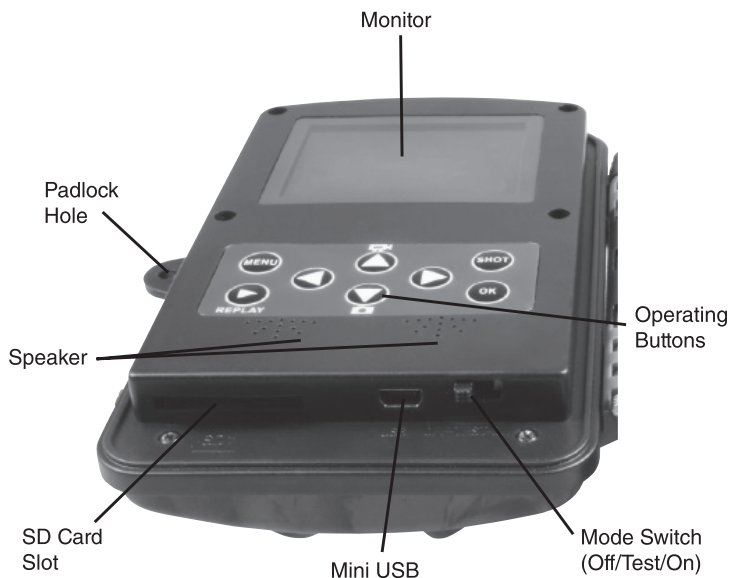
5. Your Camera

5.1. Front View

Light Sensor

No-Glow
IR LEDs

Motion
Indicator,
Red LEDs

Microphone

Lens

PIR Sensor

Clip

Padlock
Hole

Clip

5.2. Inside Views

Monitor

Padlock
Hole

Speaker

SD Card
Slot
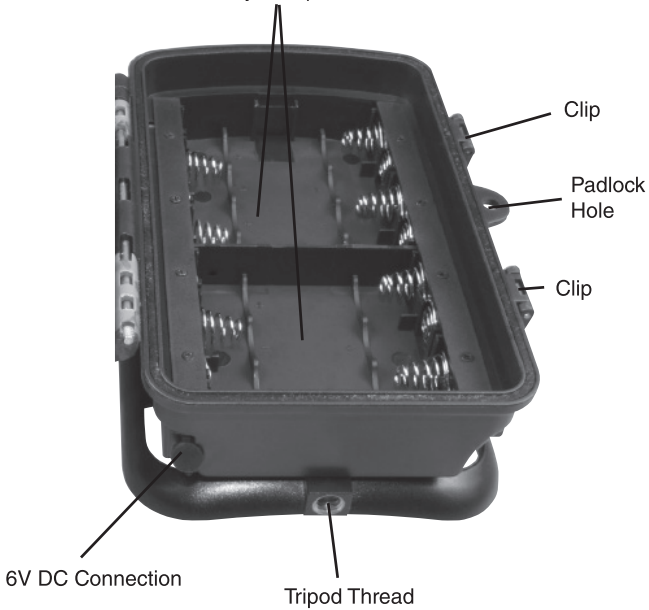
Operating
Buttons

Mini USB

Mode Switch
(Off/Test/On)

• The monitor is only switched on in the Test mode for changing menu settings or viewing existing photos.

• Using the operating buttons, menu settings can be changed in the test mode or existing photos can be played back.

• An SD or SDHC memory card must have been inserted into the SD card slot in order to save photos and videos.

• Using the mini USB (USB 2.0), the camera can be connected to a computer, in order to download photos and videos.

• Using the mode switch the three operating modes OFF, TEST and ON can be selected.

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Battery Compartment

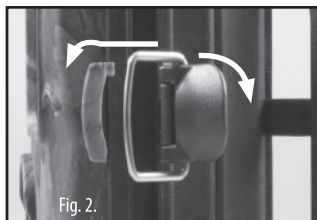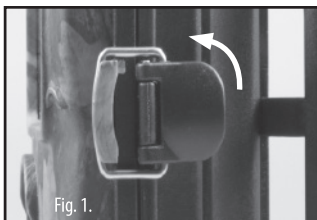Clip

Padlock
Hole

Clip

6V DC Connection

Tripod Thread

• Battery Compartment: Insert 8 type LR6 (AA) batteries as shown.
• An external power supply can be provided via the DC connection (input
  6V, at least 1.5A. Mains adaptor is not included.)

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6. Preparing the Camera

6.1. Opening and closing the camera
Operating buttons, connections and batteries are located inside the camera.

Fig. 1.

Fig. 2.

• To open the camera undo the two lateral clips as shown in Fig.1.

• To lock the camera again, engage metal hoops of clips into mount and press down plastic tab of bracket (Fig.2).

6.2. Inserting the Batteries
Open the camera as described in section 6.1 to insert the batteries. The battery compartment is housed in the right, rear part of the camera. Now open the protective cover of the battery compartment by pulling the clamping closure at the top slightly inwards before lifting off the cover.
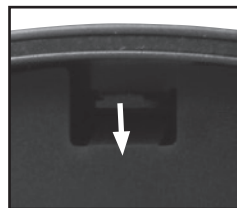
First remove any existing batteries from the battery compartment. Insert 8 fully charged batteries as shown in the below figure. When inserting batteries ensure correct position as marked for each battery in the battery compartment.

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Close the battery compartment again with the protective cover.

Note:
• Instead of type LR6 (AA) batteries, rechargeable batteries with the same specification (with 2000mAh or higher) may be used. We recommend NiMH batteries with low self discharge (not supplied).

• An alarm is sounded if battery charge is too low.

6.3. Inserting the Memory Card
A memory card must have been inserted in order to save photos and videos. Insert a SD/SDHC memory card in the SD card slot before switching on the camera. Switch off the camera and open as described in section 6.1.

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Prior to inserting the memory card ensure that the lateral write protection on the memory card has not been activated (see figure).

If the camera displays "Card protected", remove the memory card and change the position of the memory protection.

Insert the memory card as shown in the adjacent illustration. Push the memory card into SD card slot until it clocks into place.

To remove the memory card push card in again until it is partly ejected.

Note:
• SD/SDHC memory cards up to a capacity of 32GB are supported.

6.4 External Power Supply

The camera can be operated using power from an external power supply. A 6V power supply with at least 1.5A is required containing a connector with a 3.5mm external and 1.35mm internal diameter (internal plus pole, external minus pole).

Rechargeable batteries cannot be recharged in the camera using an external power supply.

LOCK — Write Protection unlocked

LOCK — Write Protection locked

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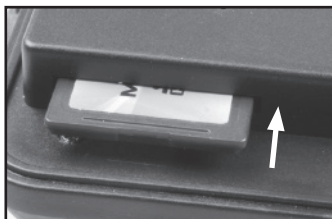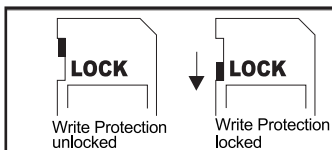
6.5. Assembly with strap
Use the securing strap supplied to attach the camera to a tree or another object. The illustrations below demonstrate how to fasten the securing strap.

Position the camera as desired and pull the loose end of the securing strap tight until the camera is firmly secured.

To release the securing strap again, pull at the tab of the securing strap.

6.6 Using the wall mount

Using the supplied wall mount, the camera can be securely attached to walls or ceilings. Prior to installing the wall mount ensure that all existing bolts are securely tightened.

• (A) Drilled holes
• (B) Tripod Bolt
• (C) Counter Screw
• (D) Hinge Screws
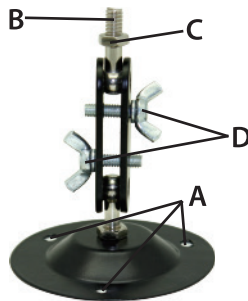
Note:
• Prior to drilling check that no supply pipes are concealed in the wall!

First mark the holes to be drilled (A), by holding the base of the wall fixing against the desired place of installation. When installing on stone or concrete surfaces use a 6mm masonry drill. After drilling the holes insert the supplied wall plugs in so that they are flush with the surface. Next secure the stand using screws from the assembly kit.

Note that prior to installing the camera on the wall mounting a memory card or batteries should be inserted or the power supply should be connected. The camera should also be switched to standby mode.
Next place the camera onto the tripod bolt (B) and partly secure the camera (approx. 3 turns).
Turn the camera to the desired alignment and secure with the counter screws (C).

In order to move the camera into the final position, release the two hinge screws (D) slightly, align the camera and fix the position by tightening the two hinge screws (D).

7. Using the camera

Prior to setting up the camera for surveillance, it must be set up for the respective purpose. For this purpose, there is a test mode available. In addition to changing settings, photos and videos can be taken and existing photos can be viewed in this mode.

7.1. Mode Switch
Open the camera as described in section 6.1. The Mode switch is located at the bottom edge on the left inside. 3 operating modes can be selected:

• **OFF:** The camera is completely switched off in the OFF mode.

• **TEST:** Select TEST mode to adjust settings and make or playback photos and videos.

• **ON:** The camera is activated to take photos automatically (Live mode).

7.2. Operating Buttons
Set the mode switch to TEST and the camera and monitor are switched on.

Using the operating buttons different functions can now be activated and settings can be changed. For this purpose, the following operating buttons are provided on the display panel:

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Functions of operating buttons in recording mode
Below, the operating buttons are described in the recording mode with non activated menu.

• **MENU:** Open the Settings menu using the MENU button
• **REPLAY:** Press this button to start the replay mode.
• ▆: Change to the manual recording mode for video recordings.
• ▆: Change to the manual recording mode for taking photos.
• **SHOT:** Manually take a video or photo depending on the set recording mode. Video recordings are also ended by pressing the SHOT button.
• **OK,◄**, **►**: No function (In recording mode).

Functions of operating buttons in replay mode
• **MENU:** Select the Replay menu using the Menu button.
• **REPLAY:** Press the button to return to recording mode.
• ▲: View existing pictures backwards.
• ▼: View existing pictures forwards.
• ►: Enlarge photos in increments (Up to 16 times).
• ◄ Decrease enlarged photos in increments.
• **OK, SHOT**: Start and end replay of videos.

Functions of operating buttons in menu
Below, the operating buttons are described in the replay mode with activated menu. (Recording and Replay mode).
• **MENU:** Close the Main menu or any sub menu by pressing the MENU button.
• ▲: Move up one menu point or increment value by 1.
• ▼: Move down one menu point or decrease value by 1.
• ►: Enlarge displayed photos in increments (up to 16x).
• ◄: Decrease enlarged photos in increments.
• **OK:** Open selected options or accept selected settings. Confirm each change to a setting by pressing **OK**. If the change is not confirmed by pressing the **OK** button, the new settings are lost when leaving the menu.
• **SHOT, REPLAY:** No function (in replay mode).

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7.3. Settings
Prior to using the camera, change the settings
as required.
Slide the mode switch of the camera to the test
position to start the test mode. In the Photo or
Video mode press the **MENU** button to call up
the menu.

All menu options of the camera and possible setting values for the
recording mode are listed below. The standard setting is always
highlighted in bold.

• **Mode: Photo,** video, photo + Video
Select whether photos or videos should be taken when motion is
detected. When the "Photo + Video" mode, the camera first takes a set
number of photos prior to recording a video.

• **Image Size:** 8M, 5M, 3M, **2M**, 1M
Select the desired resolution for photos.
A higher resolution produces a somewhat better photo quality but results
in larger files requiring more space on the memory card.

• **Video size: 720p** (1080 x 720, 30 fps), WVGA (848 x 480, 30fps), VGA
(640 x 480, 30 fps)
Select the required video resolution.
A higher resolution produces higher quality videos but results in larger
files requiring more space on the memory card. Videos are recorded in
AVI format which can be played back on most video equipment.

• **Number: 1 photo**, 2 photos, 3 photos
Select the number of photos to be taken in succession when th camera
is triggered in the Photo mode. Please also observe the parameter
Interval!

• **Length of video: 10 seconds,** Optional 1 - 60 Seconds and 3, 5 and
10 minutes Specify the duration of a video recording when the camera is
triggered automatically. The recording period for videos is not limited in
the Test mode.

• **Interval: 30seconds,** optional from 5 seconds to 60minutes
Select the shortest period for the camera to wait before it reacts to the
successive triggering of the main sensor after an animal has first been
detected. The camera does not record any images or videos during the
selected interval. This prevents the memory card from being filled with
unnecessary shots.

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• Time Stamp: On/Off (only available for photos, not for videos)
Select "ON" to print the date, time, temperature and moon phase on each photo. Otherwise select "Off".

• Timer: Off/On
Set timer to "On" if camera should only be active within a certain time. Once "On" has been confirmed with the OK button, the start and end time can be set.
If the start time is, for instance set to 18:35hrs and the end time to 8:25hrs, the camera will be operational from 6:35pm of the current day until 8:25am of the following day. The camera will not be triggered and will not take any photos or videos outside of this period.

• Password: Off/On
After selecting "On" enter a four digit password to protect your camera against un-authorised access.
This password must be entered each time the camera is switched on in the Test mode before the camera can be used.
If you have forgotten your password and are unable to use your camera, the camera and till receipt must be returned to your place of purchase. This is the only way to prevent un-authorised access to your camera.

Note: If you forgot your password, please unlock the camera with password "OPEN".

• Serial no.: Off/On (can only be used for photos not for videos)
Select "On" to assign a serial number to the camera. As soon as "On" has been confirmed by pressing the OK button, the individual serial number can be inserted. You can use a combination of 4 digits and letters to document the location on the photos (e.g. YSP1 for Yellow Stone Park). When using several cameras this makes it easier to identify the location when viewing photos.

• Time lapse: Off/On
When "On" has been selected, the camera automatically takes photos or videos in the selected time interval, irrespective of whether or not the PIR sensor has detected a motion or not. This is useful for observing cold-blooded animals e.g. snakes or plants opening up, etc. As soon as the"On" setting has been confirmed by pressing the OK button, you can enter the interval time after which photos and videos are to be taken.

• Energy saving mode: Off**/On**
The Energy saving move comes into effect when battery power is low. When the mode is activated, the camera automatically reduces the brightness of the IR Lights, in order to extend battery life.

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• **Language:** Select the desired menu language
The following languages are available in English, German, Danish, Polish, French, Italian, Dutch, Spanish, Hungarian, Portuguese, Chinese.

• **Formatting: No**/Yes
All files are deleted by formatting the memory card. Press **OK** button and confirm formatting by selecting "YES".

We recommend formatting the memory card if it has already been used in other devices or if it is a new card.
CAUTION: Ensure that files still required have been backed up prior to formatting!

• **Setting the time:** Set date and time
Press OK button to set date and time. Using the ◄ and ► buttons to skip between values and change selected values by pressing the ▲ and ▼ buttons. Confirm your setting by pressing the **OK** button.

• **Default Settings: No**/Yes
Press "Yes" to reset the camera settings to the default values and confirm the selection by pressing the **OK** button.

• **Auto Switch:** 3min/**5min**/10min/off
With this function you can determine whether the camera should be automatically switched off when not used for some time in the Test mode. Set the time after which the camera should be switched off in the Test mode or deactivate automatic switch off by selecting "OFF"
The camera can be switched on again by pressing any operating button.

• **Recording Volume:** Low/**Normal**/High
Select with which volume audio recordings are to be recorded.

• **Playback Volume:** Low/**Normal**/High
Select with which volume audio recordings are to be played back.

• **System:** There are two available options:
FW Update: If the memory card contains new firmware this can be installed by confirming the option by pressing the **OK** button. During the update the respective status is shown on the display.
FW Version: Shows the firmware version installed on the camera. In **replay mode** the option Delete is available in the menu.

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• Delete:
Select the "Delete" option to remove individual or all photos from the memory card thus making storage room for new photos.

Single: Using this option you can delete individual photos. After selection the option by pressing the **OK** button, the photo to be deleted is shown. You can toggle between photos using the buttons [insert icon] and [insert icon]. As soon as the deletion of a photo has been confirmed by pressing "Yes", the photo is deleted and the next photo is displayed. To end the deletion process, select "No" and confirm by pressing **OK**.

All: Select option "All" to delete all photos on your memory card. To confirm deletion of all your photos, select "yes" and press the OK button. Select "No" to interrupt the deletion operation.

7.4 Night Recording
During the night recording the infrared LEDS (IR LEDs) at the front of the camera provide the light required for taking photos. Cameras use IR LEDs with a long wavelength, to keep red light to a minimum. The provided number of IR LEDs generates a high deflection angle thus allowing night recording at a distance of 3m to 15m, without overexposing the object. Reflecting objects can, however, also cause overexposure within this range (e.g. road signs). Please note that night recording using IR LEDs produces black and white images.

7.5. Setting Up the Live Mode
The standard application of the camera is the Live mode. When in this mode, photos are either triggered by movement sensors or at intervals according to the respective setting.

To set up the Live mode, switch mode switch to ON position.

The red status LED flashes for approx. 5 seconds after which the camera operates automatically and enters the Standby mode. As soon as wild animals or other objects directly enter the detection area of the PIR sensor zone, the camera starts to record photos and videos.

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7.6. Aligning the Camera

The test mode is advantageous for determining the best possible detection angle and range of the movement sensor. For this purpose attach the camera at approx. 1-2m height to a tree and align the camera with a desired direction.

Move slowly from one side of the observed area to the other. Move parallel to the camera. Try out different angles and distances.

• The red LED on the front of the camera indicates that you were detected by the PIR sensor zone.

Red LED
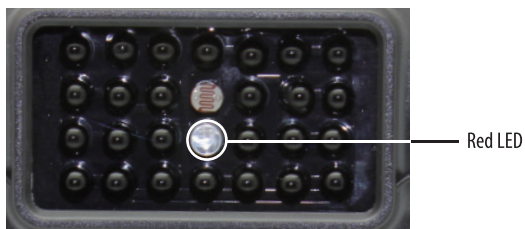
In this way you can determine the best position for aligning the camera. The LED only lights up in the Test mode as soon as PIR sensor has detected movement. The LEDs do not light up when in Live mode.

In order to prevent incorrect signals and unnecessary photos, we recommend not using the camera at sunny points and check that no branches are in the active area of the sensor. Optimum alignment is in North or South direction. The detection range of the sensors is approx 60°.

Also check that the camera is set to the correct height in line with the point to be observed. Where necessary, point the camera down for optimum alignment.

Note:
• Camera corresponds to protection class IP66. The camera is protected against dust and spray water and can thus be used in any weather condition.

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7.7. File Format
The camera stores photos and videos on the memory card in the folder "\
DCIM\100MEDIA".

Photos are given a file name with extension "JPG" (Example:
"SUNP0001.JPG"), videos are the extension "AVI" (Example: "SUNP0002.
AVI").

When in TEST and mode use the enclosed USB cable reader on the
computer. Alternatively you can insert the memory card in a card reader
on the computer. The video files can be played with most standard
programs, such as Windows Media Player, QuickTime etc.

8. Connecting to Computer

The camera can be connected to a computer using the supplied USB cable to view existing photos/videos.

System Requirements:

Windows®	Mac
• Pentium® III or higher • Windows® XP/Vista/7/8 • 512MB Ram • 1GB available hard disk space • Screen resolution 1.024 x 768 or higher • Available USB connection	• PowerPC G3/G4/G5 • OS 10.3.9 or newer system • 512MB Ram • 1GB available hard disk space • Screen resolution 1.024 x 768 or higher • Available USB connection

1. Connect the camera to your computer using the USB cable.
2. The camera switches on automatically in the USB mode, irrespective of the selection on the mode switch.
3. The camera installs itself on the computer as an additional drive under the name "Removable storage device".
4. Double-click on the device to detect the folder "DCIM"
5. The photos and videos are located in the sub folders of the "DCIM" folder.
6. You can copy or move photo and video files on the computer.
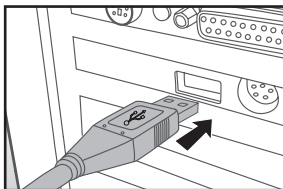
Alternatively you can insert the memory card in a card reader on the computer.

Note:
• Mac computers show an "Unknown" drive on the desktop. When clicking on this drive, the program "iPhoto" is automatically started.

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9. Technical Specification

LCD:	2.4"
Image Sensor:	1/4" CMOS
Video Resolution:	720p (1280 x 720)
Image Resolution:	8MP
Frame Rate:	30fps
Lens Angle:	73°
Video Compression:	MJPEG
Recording Format:	AVI
Infrared:	26 x No-Glow IR LEDs
Infrared Range:	Up to 15m
PIR Trigger Time:	1 Second
PIR Sensor Angle:	60°
Storage:	Up to 32GB SD (Class 10)
IP Rating:	IP66
Batteries:	8 x AA (Not Included)
Battery Life:	Up to 3 Months Standby
Power Supply:	6VDC, 1.5A (Not Included)
Dimensions:	135(H) x 100(W) x 80(D)mm

Note:
• Design and technical specification are subject to change.

10. Simple Trouble Shooting

The camera will not turn on:
• Please check the batteries if they are installed in the proper way.
• Check if the battery capacity is low or exhausted. If so, please replace them with new batteries.

The camera turns off automatically:
• Please check whether the battery capacity is low or exhausted. If so, try to change new batteries for outdoor use or connect AC adaptor for indoor use.
• Please check if SD card is full. If so, transfer images and videos to your computer or delete some files in the Replay Mode.

It shows "SD card Error":
• Please ensure that SD card is with class 10 standard or higher level.
• Please use the camera to format SD card at the first time.

Videos are Choppy or Jumpy when Played on a Computer:
• Ensure that the computer system requirements are met.
• Ensure AVI format Video clip can be played on your computer.

The image is not clear:
• Please ensure that you removed the protective films on IR LEDs and lens before using.

The camera does not take images of record videos:
• If the memory of SD card is full, transfer images or videos to your computer or delete some files in the Replay Mode.
• The memory card is not formatted properly. Format the SD card again or use a new card.

Camera can not turn off:
• One such malfunction occurs, remove all the batteries to reset the camera.

Forget the password:
• Please enter the words "OPEN", in case that you forget the password to start the machine.

11. System Information, Maintenance & Disposal

11.1. Care
Do not use any corrosive cleaners, such as methylated spirits, thinners, etc. to clean the camera housing and supplied and supplied accessory. When required, the clean system components with a soft dry cloth.

11.2. Storage
Always remove the battery from the housing if the camera is not being used for some time and store the battery separately. On a day to day basis and over longer periods the batteries can be kept at a dry location out of the reach of children.

11.3. Disposal
For disposal, separate packaging into different types and dispose of in line with environmental regulations in supplied collection containers. Batteries and storage batteries may not be disposed of in domestic waste. Consumers are obliged by law to return used batteries to communal collection points or dealers selling batteries. Storage batteries and batteries do therefore contain the adjacent symbol.

Correct disposal of product:
The adjacent symbol indicates that electrical and electronic equipment may not be disposed of in domestic waste in the EU. Please use the returns and collection points of your local council or contact your dealer you purchased the product from. This prevents potentially harmful effects on the environment and health as a result of incorrect disposal. For further information contact the respective department of your local council.