Infrared Digital Scouting Camera
User's Manual
Pocket Camera SG550-8mHD

Content

1 Instruction

1.1 General Description

This camera, a digital scouting camera, is a surveillance camera working automatically. It can be triggered at once by any movement of human (or animals) in a certain region of interested (ROI) monitored by a high sensitive Passive Infrared (PIR) motion sensor, and then automatically captures high quality pictures (up to 8M pixels) or records video clips (720P HD) according to default settings or preset customer settings.

It takes color pictures or videos under sufficient daylight. While at dark night, the built-in infrared LEDs function as flash light, the camera then takes clear pictures or videos.

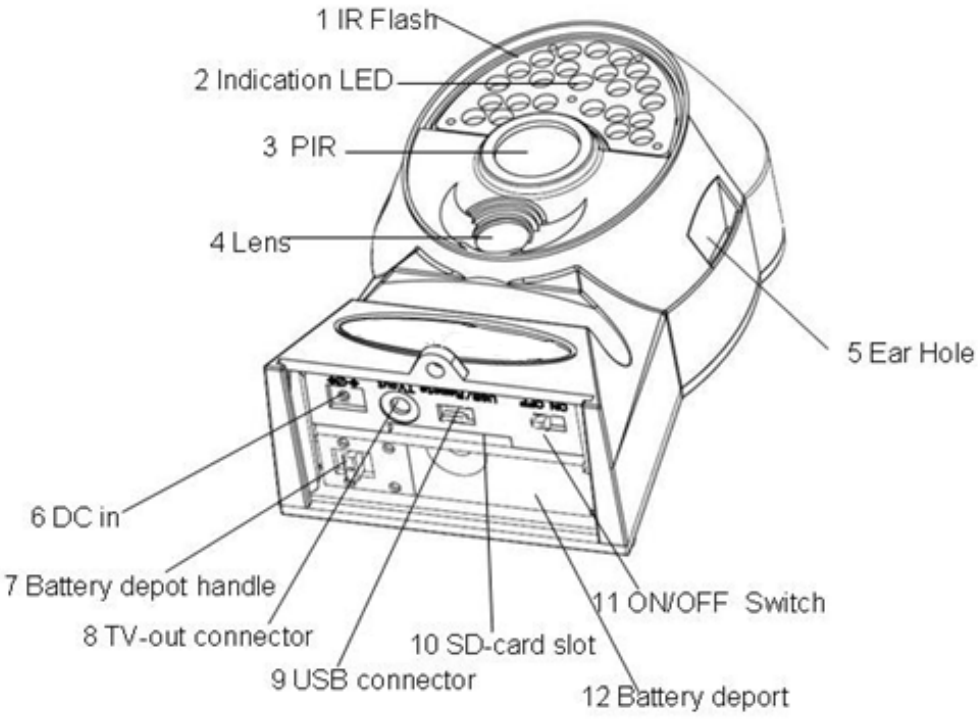
It is resistant against water and snow for outside uses. Furthermore, the camera can be used as a portable digital camera. Pictures or videos can be taken manually by pressing **OK** on the control in **TEST** mode (The wired control needs to be connected).

1.2 Camera Body Interfaces

The camera has the following I/O interfaces: USB connector, SD card slot, TV output and external DC power connector.

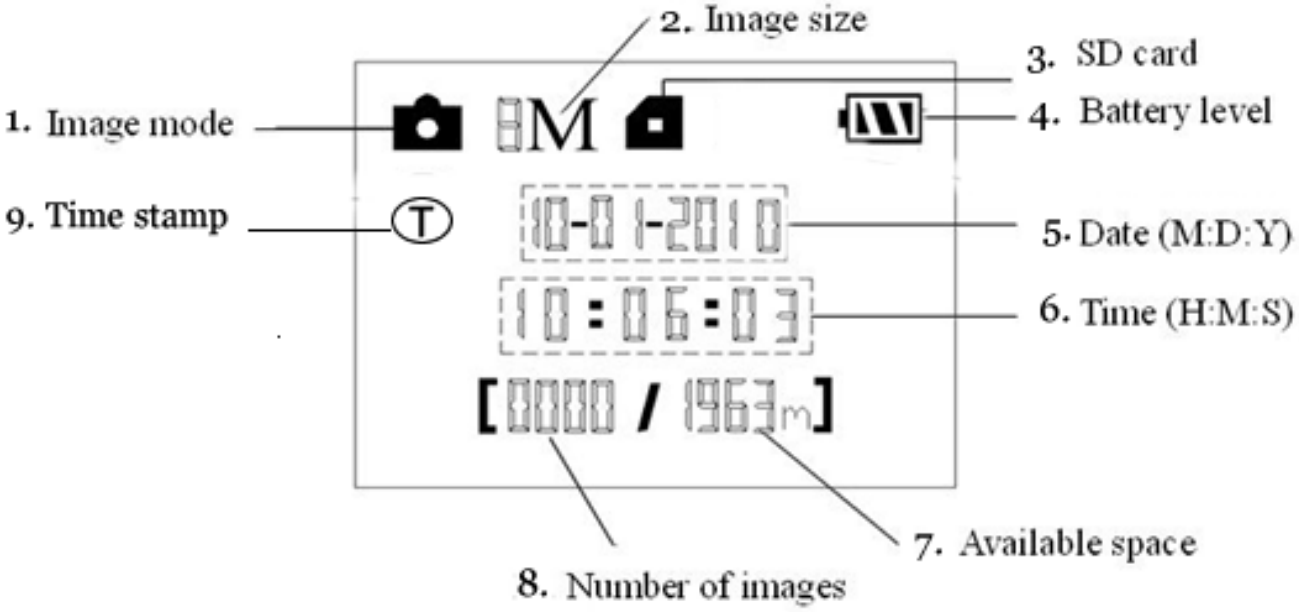
On the head of camera, there is a lock hole for theft-proof.

Take a few moments to familiarize with the camera controls and displays. It is helpful to bookmark this section and refer to it when read through the rest of the manual.



1.3 Shooting Information Display

When the camera is turned on (the power switch is slid to **ON** position), the shooting information will be displayed on the monitor.



1.4 Supported Format

Item	Format
Image	JPG
Video	AVI
File format	FAT32

Here are some important notices. You don't need to concern about the file system format of the camera unless you have problems with reading the SD card by your other equipments. If this happened, please format the SD card in the camera or in a computer at first and then reinsert the card into your camera to make a try.

2 Cautions

★ The working voltage of the camera is 6V. The camera is supplied by eight AA batteries.

★ Please install batteries according to shown polarity.

★ Please unlock the write-protect before inserting the SD card.

★ Please insert the SD card when the power switch is at **OFF** position before testing the camera. The camera has no internal memory for saving images or videos. If no SD card is inserted, the camera will shut down automatically after a continuous indication sound.

★ Please do not insert or take out the SD card when the power switch is at **ON** position.

★ It is recommended to format the SD card by the camera when used at the first time.

★ The camera will be in USB mode when connected to a USB port of a computer. In this case, the SD card functions as a removable disk.

★ In the **TEST** mode(insert the control into the USB interface then switch the camera at **ON** position), the camera will shut down automatically after 3 minutes if no operation is done. Please turn on the power again if you want to continue to work with the control.

★ Please ensure sufficient power when having firmware upgrade, otherwise the upgrade process could be interrupted incorrectly. If any fault occurs after improper upgrading process, the camera may stop function properly.

3 Easy Operations

3.1 Power Supply

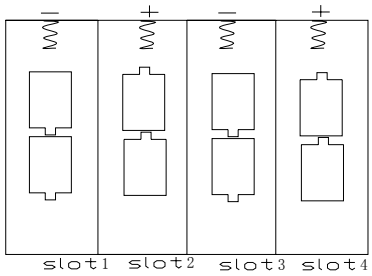
To supply power for the camera, eight AA batteries are needed.

Open the bottom cover. Confirm that the power switch is at the **OFF** position. Install the fully charged batteries into the depot according the polarities sign shown below. The following batteries with 1.5V output can be used:

1. High-density and high-performance alkaline batteries (recommended)
2. Rechargeable alkaline batteries
3. Rechargeable NiMH batteries

There are two battery slots.

When in low-battery state, camera will be automatically shut down after two indication sounds. Please change the batteries in time.



3.2 Insert the SD card

Open the bottom cover. Insert SD card into the card slot with unmarked side upwards. Please note that the SD card can only be plugged in one direction. Make sure that the write-protect switch of the SD card is on the “write” position otherwise the camera cannot be switched on.

3.3 Power on and Entering into the ON Mode

Before switching on, please pay attention to the follows:

1. Avoid temperature and motion disturbances in front of the camera such as big leaf, curtain, air-conditioner, air outlet of the chimney and other

heat sources to prevent from false triggering.

2. The height from ground for placing the camera should vary with the object size appropriately. In general, **one** to **two meters** are preferred.

Slide the power switch to the **ON** position to power on the camera and enter into the **ON** mode. After switching on the camera, the motion indication LED (red) will blink for about 10s. The 10s is a buffering time before autonomic capturing photos or videos, e.g. for closing and locking the bottom cover, fixing the camera on a tree and walk away.

In **TEST** mode, it requires to connect the control then to do further customizing settings, when the user complete the settings, it requires to unplug the control to enter into normal use, that is, **if the wired control still be connected with the camera, the camera will not work.** The camera (the control must be unplugged when in **ON** mode) will take pictures or videos automatically according to the default settings or preset customer settings.

3.4 Enter into the TEST Mode

Connect the wired control, then switch to the **ON** position and enter into the **TEST** mode. There are some functions in **TEST** mode: Customer settings, manual capture and preview. The control is needed in this mode.

3.4.1 Customer Settings

Press **MENU** on the control to enter into menu settings. The camera can be taken over control to manually customize the camera settings which display on the LCD screen on the camera. The detailed operations will be described in “Advanced Operations” chapter.

3.4.2 Manual Capturing

Press **SHOT** to manually capture photos or record videos. It is also SHOT key to stop the manual capturing of the video.

3.4.3 View Images or Videos

Press **OK** to view images, the latest image will be shown on the LCD screen on the control. Press **UP** to view the previous image and press **DOWN** for the next. Please note that video cannot be played on the LCD screen and only thumbnail of the video is showed.

3.4.4 Delete Images or Videos

Choose the image or video to be deleted when viewing， then press **MENU** to choose delete **one** or **all**. Then press **MENU** to cancel and **OK** to delete.

3.5 Power Off

Switch the camera to **OFF** position to power off the camera. Please note that even in the **OFF** mode, the camera still consumes certain power at μA level. Therefore, please remove the battery if the camera will not be used for a long time.

4 Advanced Operations

From the basic operations of the camera in previous chapter, we know that the camera has three basic operation modes:

1. **OFF** mode: Power switch is at **OFF** position.
2. **ON** mode: Power switch is at **ON** position.
3. **TEST** mode: Power switch is at **ON** position and the control needs to be connected.

In the above three modes, the **OFF** mode is the specified safe mode when replacing the SD card or batteries and transporting the camera.

This chapter explains the advanced operations for customizing the camera settings. The settings can only be customized in **TEST** mode and control is needed.

4.1 Settings Menu

To view the camera settings menu, press **MENU** in the **TEST** mode (Power switch is at **ON** position; control needs to be connected). The settings menu will be shown on the LCD on the camera.

Setting Items	Description
Camera Mode	Choose capturing images or recording videos. There are two camera modes: **Photo** or **Video**. You can enter the Setup interface to set the camera mode or use shortcut key to switch the camera mode. Via shortcut key: press "▲" key to set to Video and press "▼" key to set to Photo in SETUP mode.
Set Clock	Set camera date and time. The date format is **month/day/year**, the time format

	is **hour: minute: second**. The valid value for year is between 2009 and 2050.
Photo Size	Choose image size, 8 mega pixels or 5 mega pixels.
Photo Burst	Choose shooting number of each triggering in Photo mode. You can choose from 1 to 3 Photos.
Video Size	Choose video size, 1280*720 or 640*480.
Video Length	Choose duration of recording video. It extends from 5 to 60 seconds with a step of one second.
PIR Sensitivity	Choose sensitivity of PIR. The higher, the easier the motion sensor would be triggered. It is recommended to use **Normal** mode. The sensitivity of PIR is strongly related to the temperature. Higher temperature leads to lower sensitivity.
PIR Interval	Choose how long the camera will stop functioning after each triggering. The camera's PIR will be disabled during this interval.
Format SD	Format the SD card. All images and videos in the SD card will be deleted.
Default Set	Restore all customer settings to default values.

4.2 Default Settings

Default settings are listed below:

Setting Items	Default	Options	Submenu
Camera Mode	Photo	Video	
Set Clock	Enter		Adjust Clock
Photo Size	8MP	5MP	

Photo Burst	1 Photo	2 Photos, 3 Photos	
Video Size	1280*720	640*480	
Video Length	10 Sec	5–60 seconds	
PIR Sensitivity	Normal	High, Low	
PIR Interval	5 Sec	0–59 seconds, 1-60 minutes	
Format SD	Enter		
Default Set	Save		

4.3 File Numbering

Images and videos are saved in the pre-named folder. File numbering continues by adding one to the last number for each new image or video. The saving name likes IMAG0001.JPG or IMAG0001.AVI. Through the suffix you can distinguish whether the file is an image (with suffix .jpg) or a video (with suffix .avi).

Appendix Ⅰ: Technical Specifications

Image Sensor	5MP Color CMOS
Lens	F/NO=2.2 FOV(Field of View)=60°
Detection Range	Up to 73ft
Display Screen	1.4" LCD
Memory Card	32 GB
Picture Resolution	8MP = 3264×2448 5MP = 2560×1920
Video Resolution	1280x720(25fps) 640×480 (20fps)
PIR Sensor	Multi Zone
PIR Sensitivity	Adjustable (High/Normal/Low)
Trigger Time	1.2s
Weight	0.22 kg
Operation/Storage Tem.	-20 - +60°C / -30 - +70°C
Interval	1s – 60 min.
Photo Burst	1–3
Video Length	1–60s
Power Supply	4× AA or 8× AA
Stand-by Current	< 0.25 mA (<6mAh/Day)
Power Consumption	150 mA/600mA（with IR light）
Low Battery Alert	LED Indicator
Display Screen	LCD display on control
Mounting	Rope/Belt/Python lock
Dimensions	130x 80x 45 mm
Operation Humidity	5% - 90%
Security authentication	FCC, CE, RoHS

*without battery

Appendix Ⅱ: Parts List

Part Name	Quantity
Digital Camera	One
Wired control	One
USB Cable	One
Belt	One
User's Manual	One
Warranty Card	One