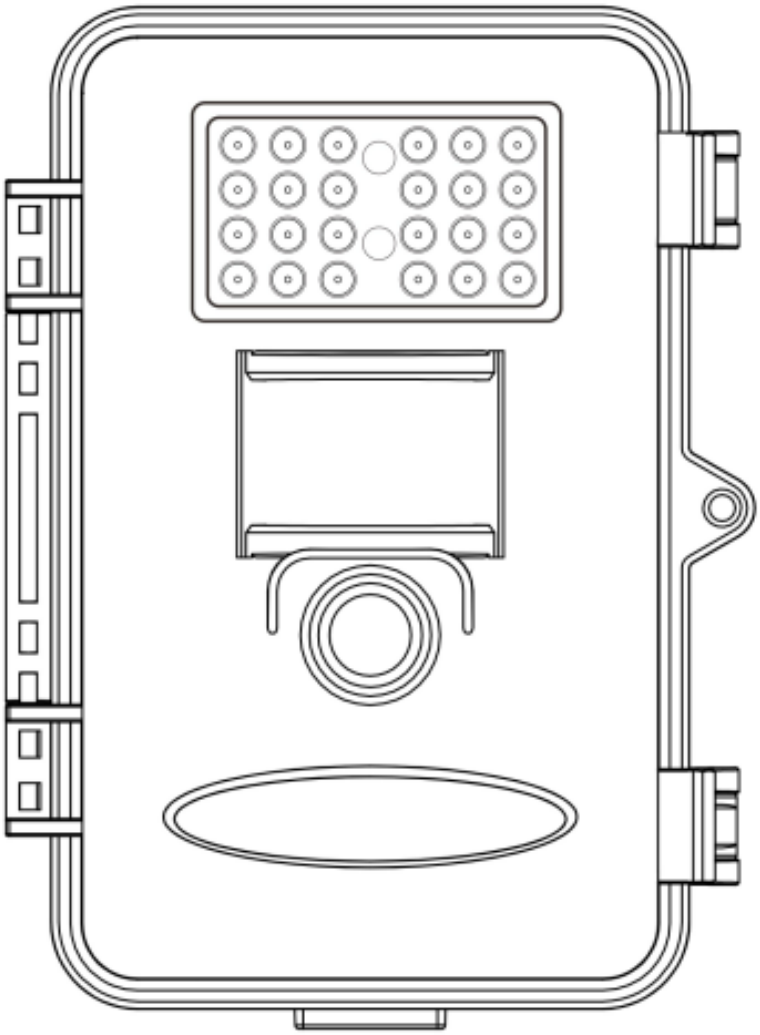
Infrared Digital Scouting Camera

User's Manual

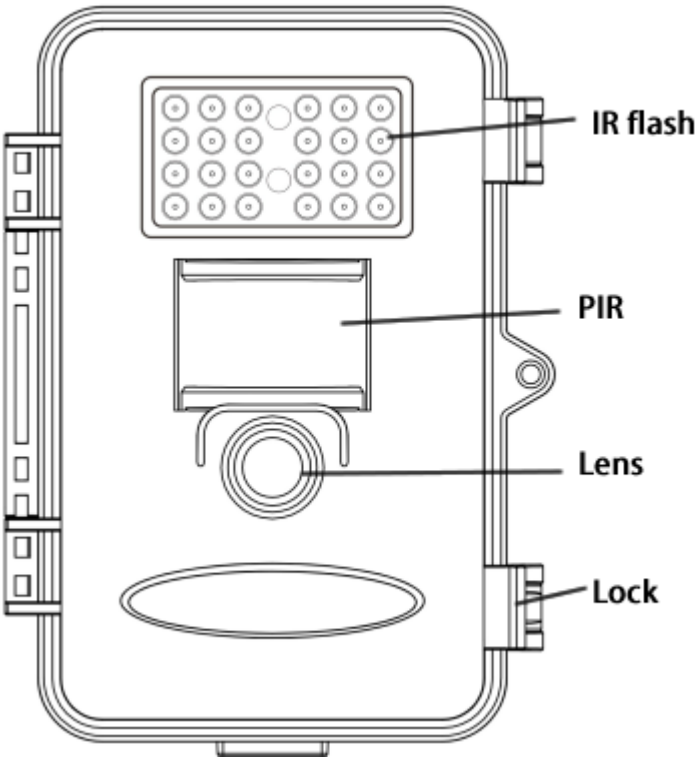
SG560-12mHD

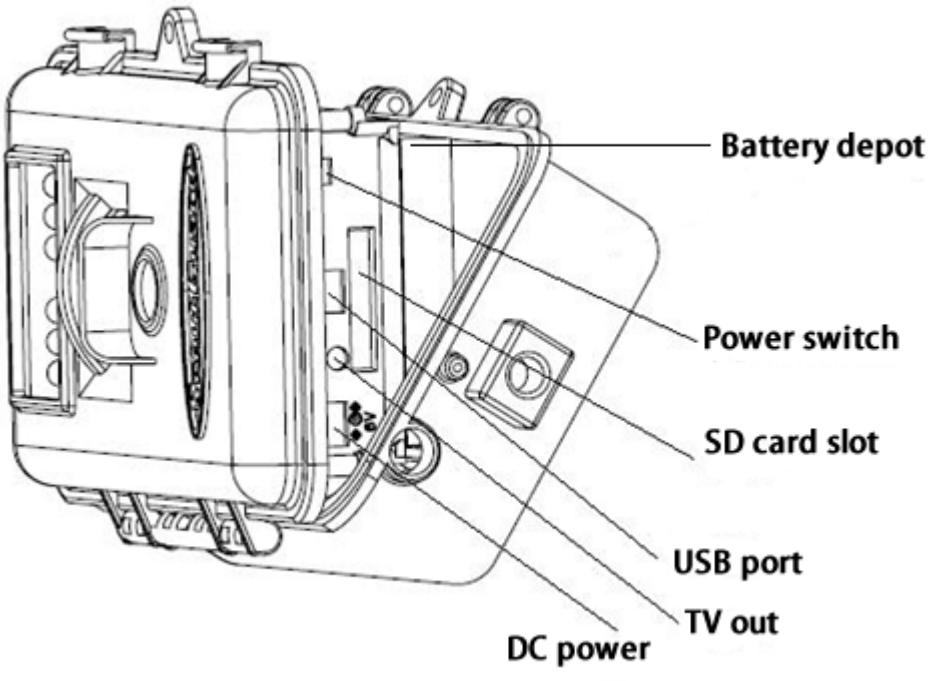


Content

1 Instruction

1.1 Camera Body Interface



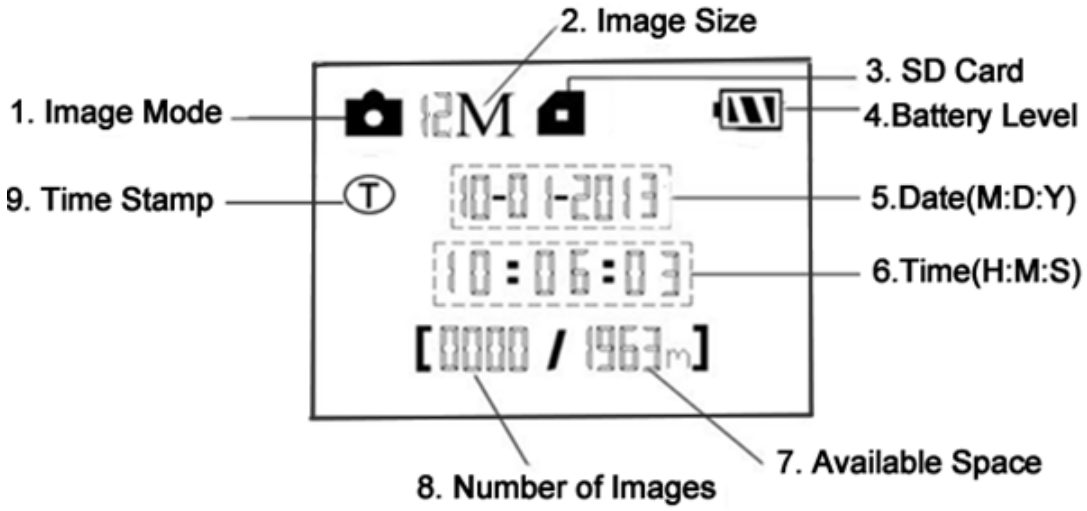


1.2 General Description

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 12M pixels) or records video clips (720P HD) according to default settings or preset customer settings.
The device is equipped with 940nm low glow built-in infrared LED. It takes clear, black and white pictures or videos even in the dark night, while it takes color pictures or videos under sufficient daylight.
It is resistant against water and snow for outside use. Furthermore, the camera can be used as a portable digital camera. Pictures or videos can be taken manually by pressing **SHOT** on the control in TEST mode (The wired control needs to be connected).

1.3 Shooting Information Display

There is a wired control primarily used for customer settings. When the camera is turned on (with wired control connected to the USB connector), the current settings will be displayed on the screen.



1.4 Saving Images or Videos

The camera uses a standard SD(Secure Digital) memory card to save images(in .jpg format) and

videos(in .avi format). SD and SDHC(High Capacity) cards up to 32GB are supported. Before inserting the SD card be sure that the SD card is unlocked.
Note: without SD card inserted, the camera will turn off automatically.

1.5 Cautions

★The working voltage of the camera is 6V. The camera is supplied by eight AA batteries.
★ Please install batteries according to shown polarity.
★ It is recommended to format the SD card by the camera when used at the first time.
★ 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.
★ Please do not insert or take out the SD card when the power switch is at ON position.
★ 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.

2 Quick Start Guide

2.1 Power Supply

Use 8 AA batteries or 6V external power supply to support the camera.
Use high-capacity and high-performance alkaline betteries(recommended), rechargeable Lithium batteries or rechargeable Nimh batteries.
Caution: Risk of explosion if battery is replaced by an incorrect type. Also dispose of used batteries according to the instructions.

 Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

2.2 Insert the SD card

Open the bottom cover, insert SD card into the card slot. Please note that the SD card is on the “write” (not locked) position otherwise the camera will not function correctly. The camera itself has no internal memory for saving images or videos.

2.3 Power on and Entering into 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.

In TEST mode, it requires to connect the remote 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 remote 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.

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, mounting the camera and walking away.

2.4 Custom Settings

Press **MENU** on the remote control to enter into menu settings. The camera can be adjusted to

manually customize the camera settings which displayed on the LCD screen of the remote control.

2.5 Manual Capturing

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

2.6 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.

2.7 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 or **OK** to delete.

2.8 Power Off

Slide the power switch to **OFF** position to power off the camera. Please note that even in the **OFF** mode, the camera still consumes a small amount of battery power. Therefore, please remove the batteries if the camera is not in use for a length of time.

3 Item Settings

3.1 Camera Menu

To view the camera settings menu, press **MENU** on the remote control. With the remote, use "▲" or "▼" key to select the sub-menu, use "►" key to select the different options. Press **OK** to save the settings and **MENU** to exit.

After changing EACH setting in TEST mode you must press OK, otherwise the camera will stay at the default setting.

Setting Items	Description
Camera Mode	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 TEST mode.
Set Clock	Set camera date and time. You can change the date and time of the device by setting this parameter when necessary, e.g., after every battery change. The date format is **month/day/year**, the time format is **hour: minute: second**. The valid value for year is between 2009 and 2050.

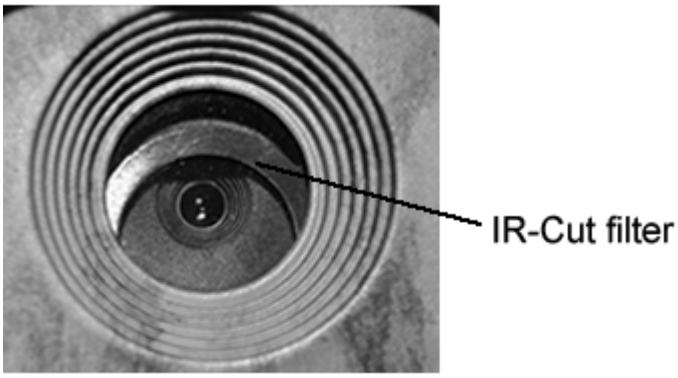
Photo Size	Choose the image size, e.g. 12 mega pixels, 8 mega pixels or 5 mega pixels.
Photo Burst	Choose the continuous shooting numbers after each triggering.
Video Size	Choose the video size: 1280x720 or 640x480.
Video Length	Choose duration of recording video. Its value extends from 5 to 60 seconds with a step of one second. The default value is 10 seconds. Press "►" to increase the value by 1 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	This parameter means how long the PIR sensor will be inactive after each triggering in ON mode. During this time the PIR of the device will not react to the motion of human or animals.
Format SD	All images and videos in the SD card will be deleted, so make sure that you have made a backup of important data,
Default Set	Restore all customer settings to default values.

3.2 Default Setting

Setting Items	Default	Options	Submenu
Camera Mode	Photo	Video	
Set Clock	Enter		Adjust Clock
Photo Size	12MP	5MP, 8MP	
Photo Burst	1 Photo	2 Photos 3 Photos	
Video Size	1280x720	640x480	
Video Length	10 sec	5–60 sec	
PIR Sensitivity	Normal	High, Low	
PIR Interval	5 Sec	0–55 Sec, 1–60 Min	
Format SD	Enter		Yes, No
Default Set	Save		

4 Trouble Shooting

1 There is something in front of the camera lens. Is the camera broken?



A: The camera is not broken. It's an IR-cut filter. When the camera is powered on, the IR-cut will be reset and cover the lens. Only when the camera is powered off, the IR-cut will be at a random place.

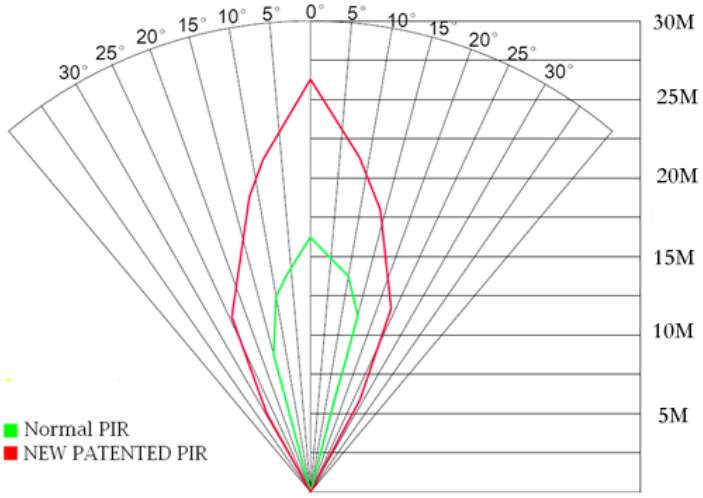
2 The camera controller is not working anymore.
A: Most likely, no SD card has been inserted in the camera when it is turned on. Please make sure a working SD card has been inserted in the camera before it is turned on.

3 The display screen is suddenly black.

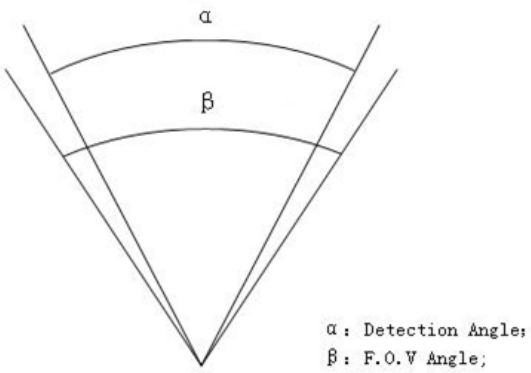
A: To reduce power consumption, the camera will shut down automatically after 3 minutes if no operation is done. Please turn on the power again if you want to continue to work with the control.

5 PIR Detection Zone

This camera has a new design of PIR and the new PIR is patented. The new patented PIR's detection range can reach to 85ft in good environments. Following picture shows the compared detection zone between normal PIR and the new patented PIR.



The PIR detection angle (α) is just smaller than the field of view (FOV) angle (β). The advantage of this design is to reduce empty picture rate and capture most, if not all, motions.



6 Technical Specifications

Image Sensor	5MP CMOS Sensor 8MP, 12MP Interpolation
Lens	F/NO=2.2 FOV(Field of View)=60°
PIR detection range	73ft
Display Screen of Remote Control	1.44” LCD
Memory Card	Up to 32 GB
Image Resolution	12MP=4032×3024 8MP = 3264×2448 5MP = 2560×1920
Video Resolution	1280x720(25fps) 640×480(20fps)
PIR Sensitivity	Adjustable
Trigger Time	<1.2s
Weight	0.30 kg(without battery)
Operation/Storage Tem.	-20 - +60°C / -30 - +70°C
PIR Interval	1s – 60 min.
Photo Burst	1–3
Video Length	1–60s
Power Supply	4×AA
Sound Recording	Available
Mounting	Rope/Belt/Python lock
Dimensions	140 x80 x50 mm
Operation Humidity	5% - 90%
Security Authentication	FCC, CE, RoHS

7 Parts List

Part Name	Quantity
Camera	One
Wired Control	One
USB Cable	One
Belt	One
User Manual	One
Warranty Card	One

Version 1.5