User Manual BG590-24mHD

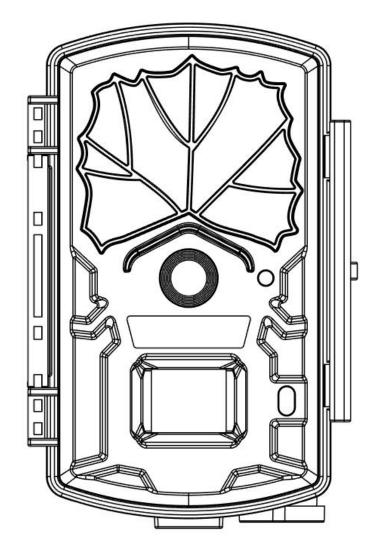


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1. Getting Started

1.1 General Description

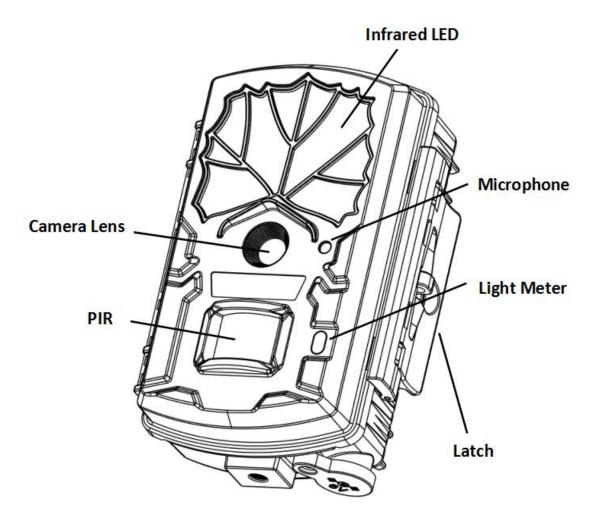
BG590, is a digital infrared surveillance camera monitored by a highly sensitive Passive Infrared (PIR) motion sensor that can be triggered by any human or animal movements. After being triggered, the camera then automatically captures pictures or video clips.

This camera is powered by 4 or 8 AA batteries. It can sustain in stand-by mode alone for up to 6 months on 8 AA batteries, is designed for outdoor use, and resistant against rain and snow.

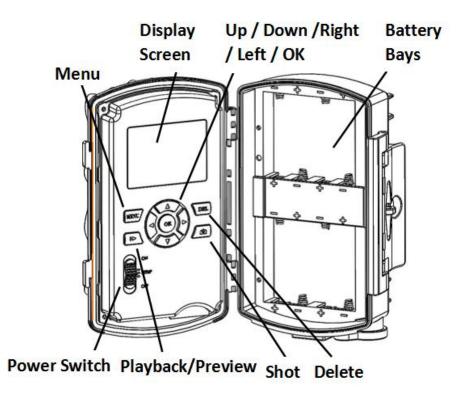
Has the following interfaces: a 2" color LCD display screen, operation panel, USB connector, SD card slot and an external DC power connector.

1.2 Product View

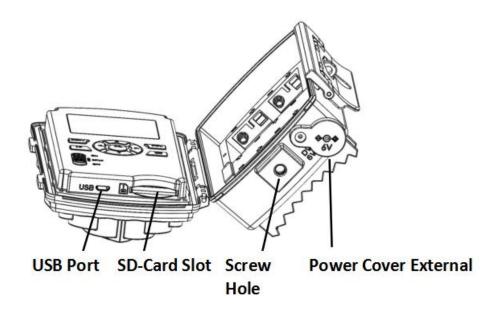
Front View



Inner Panel View



Bottom View



2. Camera Operations

2.1 Power Supply

4 or 8 AA batteries high-density, high-performance rechargeable or non-rechargeable alkaline batteries are recommended. You can also use NiMH batteries as well, but each battery should be above 1.5V.

2.2 SD Card Information

To take full advantage of the latest technologies, we recommend Class 10 SD cards or better, which have fast transfer speeds and long durability for extensive shooting in the most extreme outdoor conditions. Some SD cards are Secure Digital High Capacity (SDHC) PRO cards, which only work with SDHC compatible devices. Please check that your product is compatible with SDHC cards.

• Insert the SD card into the camera before turning on the camera

This camera supports up to a 32GB capacity SD card, and has no built-in internal memory. The camera will not function without the SD card properly inserted into the camera.

- Make sure the SD card is unlocked before inserting it into the camera
- If you experience any problems with an

inserted SD card, try reformatting the SD card through the camera's main settings option.

2.3 Camera Modes

The different modes are according to the position of the power switch. The three basic operation modes as below:

OFF Mode

Switching the camera to the OFF position turns the camera off. The camera will still consume a small amount of power while in "OFF" mode. It is recommended to remove the batteries if the camera will not be used for a long period of time.

ON Mode

Switching the camera to ON position turns the camera on. When movement occurs within the monitored region, the camera will take pictures or record videos automatically according to the previous programmed settings. After switching the camera to the ON position, the motion indication LED (red) will blink for about 10 seconds. This time interval is for you to position the camera for automatic surveillance operation.

SETUP Mode

Switching the camera to the SETUP position allows you customize your camera settings or play back pictures and videos the camera has taken on the LCD display. The camera will automatically shut down after a few minutes of no operation.

2.4 Manual Image / Video Capturing

Place the camera in SETUP Mode and press **SHOT** to manually capture photos or record video. Press **SHOT** again to stop video capture.

2.5 Manage Images and Videos

Place the camera in SETUP Mode and press **Playback/Preview** to view images or videos. The latest image or video will be shown on the LCD screen.

To view:

Press \blacktriangle or \checkmark to view the previous or next image or video.

To delete:

Find the image or video you want to delete. Press the Delete key. Press OK to delete, or press MENU again if you decide not to delete the image or video.

2.6 Quickly Change Camera Mode

Place the camera in SETUP Mode and press \blacktriangle or \checkmark to quickly change the camera mode.

2.7 Trigger Modes

There are 3 trigger modes for the cameras.

PIR trigger: PIR trigger is constantly working when the camera is on. The camera takes photos/videos only when motion is detected.

Time lapse: The time lapse default setting is OFF by default. If the timer trigger interval is manually set to a non-zero value, the cameras start to work at a preset interval.

PIR & Timer trigger: If you want both PIR trigger and time lapse, you need to set PIR

trigger to "normal, high or low" sensitivities according to the external environments. Be sure to also set the time lapse to a desired non-zero value. The cameras will capture pictures or videos in preset time intervals even if there is no motion detected, and will capture pictures and videos when motion is detected.

*Time Lapse and PIR Trigger cannot be set to off at the same time.

Additional PIR settings to note:

• PIR Interval

This setting indicates how long the PIR sensor will be disabled after each camera triggering. During this time the PIR sensor will not react to any detected motion.

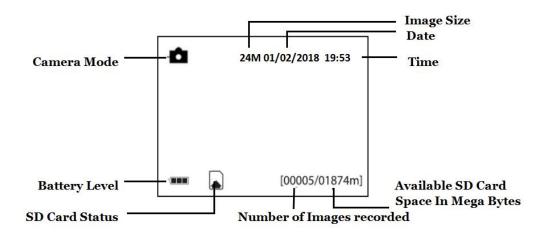
3. Remote Display & Settings

3.1 Basic Key Function & Display

To update the camera settings, place the power switch to the ON position.

- **MENU**: Enter the program menu in preview mode
- ▲▼ ◀ ►: Parameter settings as described in the user's manual
- **OK**: Save parameter settings and play videos
- **I>** : Exchange between playback and preview
- **DEL**: Delete an image
- 🖾 : Capture a photo or record a video manually

When the camera is on, the screen will activate and display the following:



3.2 Camera Setup Options

To view the camera settings menu, you need to enter the SETUP Mode, and press MENU.

Use ▲ or ▼ keys to select the sub-menu.
Use ► keys to select the different options.
Press "OK" to save the settings.

After changing EACH setting in SETUP Mode, you must press OK or the camera will retain the previous setting.

Menu	Description	
Option		
Language	Choose the language you prefer. Language options include: English, French, Spanish.	
	Default: English	
Camera Mode	Choose between capturing images, videos or both at the same time: Photo, Video, Pic+Video.	
	Default: Photo	
Set Clock	Setting the date and time of the camera. You can change the date and time of the device through this setting when necessary (battery	

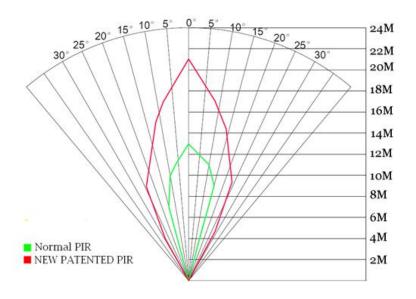
	The valid values for the year are		
	between 2012 and 2050.		
	Default:Enter		
	Choose the image size: 10(D)/8(N)		
Photo Size	MP,16(D)/12(N)MP,24(D)/18(N)		
I HOLO SIZE	MP options are available.		
	Default: 24 MP		
	Choose the number of photos taken		
Photo	after the camera is triggered: 1		
Burst	Photo, 2 Photos, or 3 Photos.		
	Default: 1 Photo		
	Choose the video size:		
Video Size	1920x1080,1280x720, 640x480.		
	Default: 1920x1080		
	Choose the duration of the video		
	recording: Valid values extend from		
Video	5 to 180 seconds, with a one second		
Video	delay.		
Length	Press \blacktriangleright to increase the video time		
	by 10 seconds.		
	Default: 10 seconds		
	Time lapse means the camera can		
	capture images or videos at a preset		
	time interval regardless of whether		
	motions are detected. The default		
Time	parameter is off, which means the		
Lapse	timer function is disabled.		
	Changing this parameter to a		
	non-zero value turns on the Time		
	Lapse mode, and camera will take		
	photos at the given time interval.		

	Please note that if the PIR		
	Trigger is set to off, then Time		
	Lapse can't be set to off.		
	Default: OFF		
	This setting is for the sensitivity of		
	the PIR sensor. There are four		
	sensitivity parameters: High,		
	Normal, Low, OFF. It is		
	recommended to use HIGH		
	sensitivity in areas with little		
	environmental interference and for		
PIR	warmer, humid climates. Use LOW		
Trigger	sensitivity for areas that have a lot		
	of interference. The sensitivity of		
	the PIR is affected by temperature.		
	Higher temperatures lead to a		
	lower sensitivity.		
	Please note that if Time Lapse		
	is set to off, then PIR Trigger		
	can't be set to off.		
	Default: Normal		
	This interval shows how long the		
	PIR will be disabled after each		
	triggering in the ON mode. During		
пп	this time, the PIR sensor will not		
PIR	react to any detected motion or		
Interval	scheduled timer functions. The PIR Interval can be set between zero		
	seconds to a maximum of 1 hour.		
	Press ► to adjust the desired PIR Interval time.		
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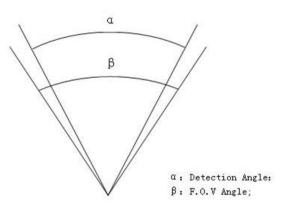
	Default: 5 seconds		
	This is where you can change the		
	camera position. You can set A-Z		
Camera	position for your camera to help		
Position	distinguish which photo was taken		
	by which camera.		
	Default: OFF		
If the SD card is full in hur			
	mode, the first images or videos		
Recycle	will be overridden by new pictures		
Storage	or videos. This only takes effect in		
	hunting mode.		
	Default: OFF		
Format SD	All information on the SD card will		
	be deleted. Make sure you backup		
	important data on the SD card		
	before using this mode.		
Default Set	Restores all settings back to default		
Delault Set	values.		
Version	Version information.		

4. PIR Detection Zone

The PIR's detection range can reach 70ft in an open environment. The following picture shows this camera's PIR detection range compared to standard PIR detection range.



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



5. Technical Specifications

Image Sensor	5MP CMOS Sensor	
Lens	F/NO=2.2	
	Field of View=55°	
LED Type	940Nm	
LED Number	40Pcs	
Detection range	100Ft.	
Illumination Distance	100Ft.	
Display Screen on Remote 2" LCD		
Control	2 100	
Memory Card	Up to 32 GB	
	10(Day)/8(Night) MP	
Image Resolution	16(Day)/12(Night)MP	
	24(Day)/18(Night)MP	
Video Resolution	1920x1080	
	1280x720	
	640x480	
PIR Trigger	High, Normal, Low, Off	
Trigger Time	<0.7 Sec	
PIR Interval	oSec – 60 Min.	
Photo Burst	1–3	
Video Length	5–180 Secs	
Power Supply	4 or 8×AA	
Stand-by Current	< 0.3 mA (<7mAh/Day)	
Sound Recording	Yes	
Operating Temperature	-20°℃ to + 60°℃	
Storage Temperature	-30°℃ to + 70°℃	
Relative Humidity	5% to 90%	
Security Authentication	FCC, CE, RoHS	

6. Parts List

Part Name	Quantity
Camera	1
USB Cable	1
Belt	1
User Manual	1
Warranty Card	1
Mounting Bracket	1

Version 1.0