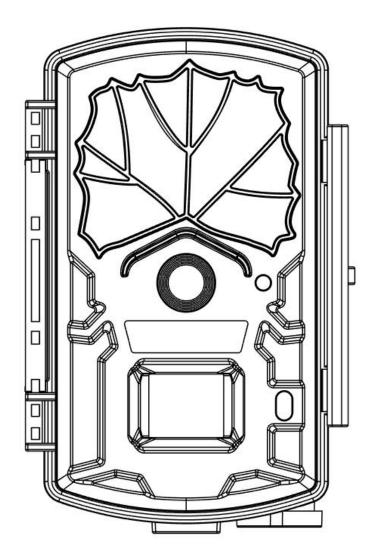
# **User Manual** BG590-24mHD





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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.

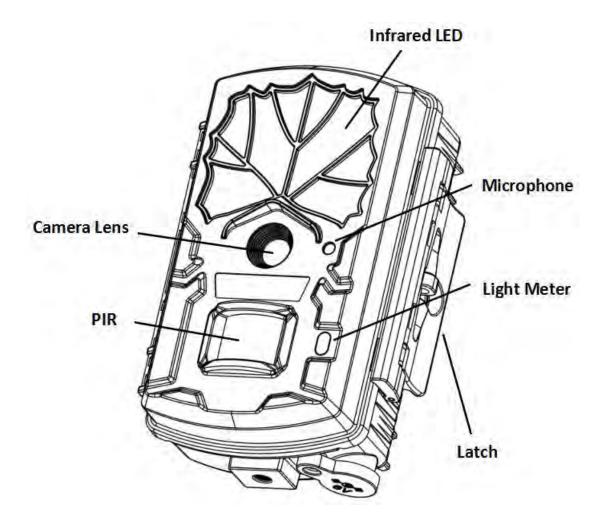
This camera is powered by 4 or 8 AA batteries. It can sustain in stand-by mode alone for up to 6 months on 8 AA batteries, is designed for outdoor use, and resistant against rain and snow.

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**

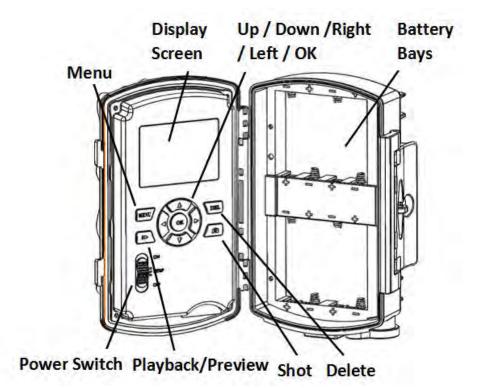
#### **Front View**



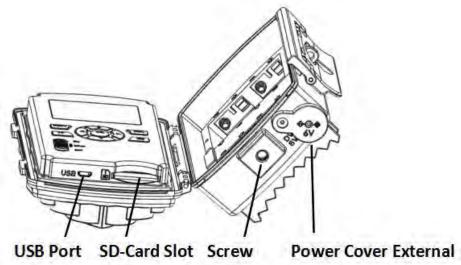


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#### **Inner Panel View**



#### **Bottom View**



Hole



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# 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.



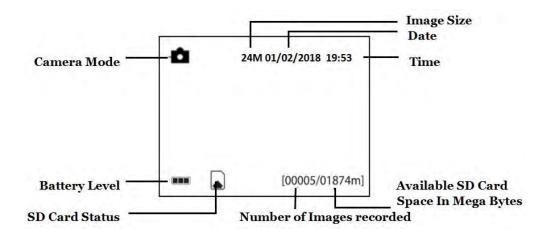
# **3. Remote Display & Settings**

#### 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	
Choose between capturing imag		
Camera	videos or both at the same time: Photo, Video, Pic+Video. <b>Default: Photo</b>	
Mode		
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	
	replacement, day light savings).	
	The date format is	
	month/day/year. The time	
	format is <b>hour: minute: second</b> .	



	The valid values for the year are			
	between 2012 and 2050.			
	Default:Enter			
	Choose the image size: $10(D)/8(N)$			
Dhata Cina	MP,16(D)/12(N)MP,24(D)/18(N)			
Photo 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			
	5 to 180 seconds, with a one second			
Video	delay.			
Length	Press $\blacktriangleright$ to increase the video time			
	by 10 seconds.			
	<b>Default: 10 seconds</b>			
	Time lapse means the camera can			
	capture images or videos at a preset			
	time interval regardless of whether			
<b>—</b> •	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		
PIR Trigger	PIR 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 warmer, humid climates. Use LOW sensitivity for areas that have a lot		
	is set to off, then PIR Trigger		
	can't be set to off.		
	Default: Normal		
PIR Interval	This interval shows how long the PIR will be disabled after each triggering in the ON mode. During this time, the PIR sensor will not react to any detected motion or scheduled timer functions. The PIR		
	<ul> <li>Interval can be set between zero seconds to a maximum of 1 hour.</li> <li>Press ► to adjust the desired PIR Interval time.</li> </ul>		

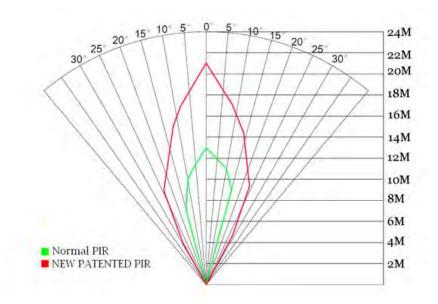


	Default: 5 seconds			
	This is where you can change the			
	camera position. You can set A-Z			
Camera	position for your camera to help			
Position	distinguish which photo was taken			
	by which camera.			
	Default: OFF			
	If the SD card is full in hunting			
	mode, the first images or videos			
Recycle	will be overridden by new pictures or videos. This only takes effect in			
Storage				
	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.			

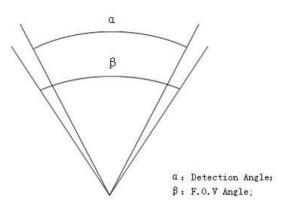


# **4. PIR Detection Zone**

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 ( $\alpha$ ) is smaller than the field of view angle ( $\beta$ ). The advantage of this design is to reduce empty picture rates and capture most, if not all, motion detected.





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# **5. Technical Specifications**

Image Sensor	5MP CMOS Sensor	
	F/NO=2.2	
Lens	Field of View=55°	
LED Type	940Nm	
LED Number	40Pcs	
Detection range	100Ft.	
<b>Illumination Distance</b>	100Ft.	
Display Screen on Remote	2" LCD	
Control		
Memory Card	Up to 32 GB	
Image Resolution	10(Day)/8(Night) MP	
	16(Day)/12(Night)MP	
	24(Day)/18(Night)MP	
	1920x1080	
Video Resolution	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°C to + 60°C	
Storage Temperature	-30°℃ to + 70°℃	
<b>Relative Humidity</b>	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



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