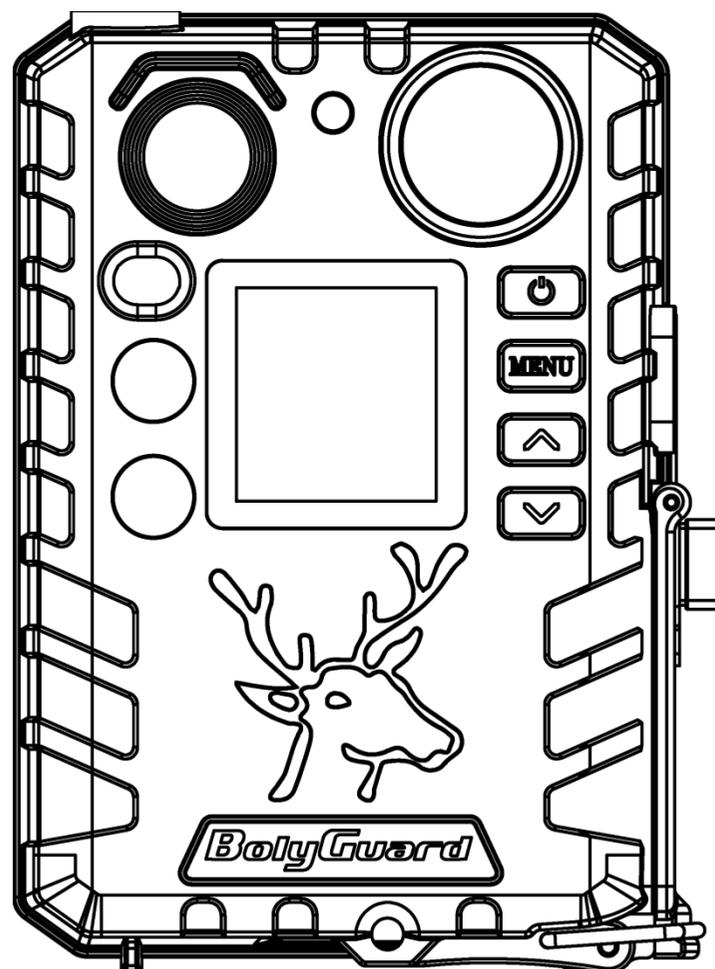


# Infrared Digital Scouting Camera

## User Manual

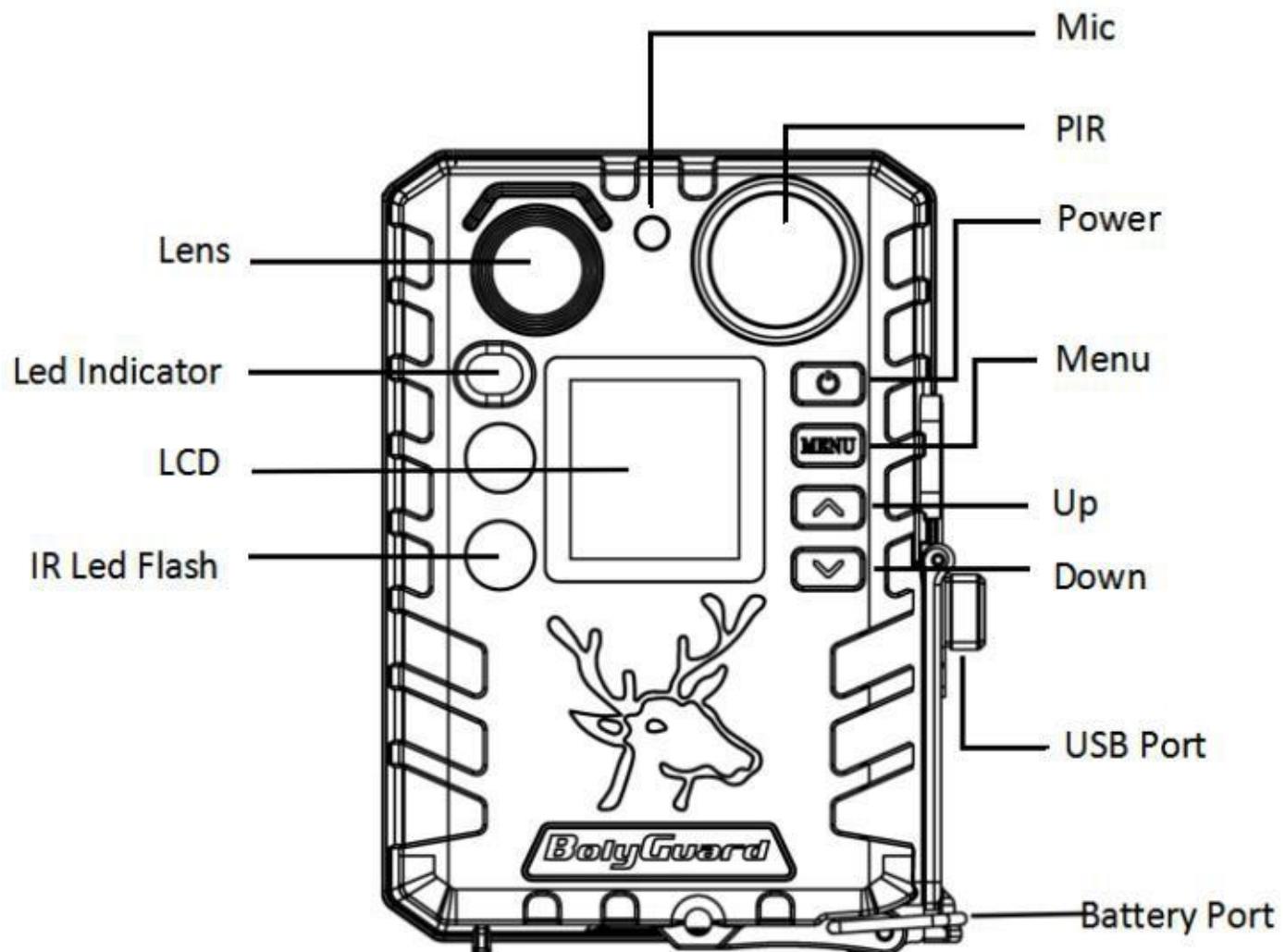
### BG310



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## 1. Getting Started



BG310 series camera, this is a digital infrared surveillance camera. Use 1.44" color LCD display and 2\*18650 battery (Button top, length: 67~69mm), the USB port connects to the solar panel can charge the 18650 battery.

You can choose different models according to different needs.

**BG310** Non-wireless Camera

**BG310-FP** BG310 Full Package mode, BG310 with 2 \* 18650 battery, 1 \* TF card and 1 \* TF card adapter

## **2. Camera Operations**

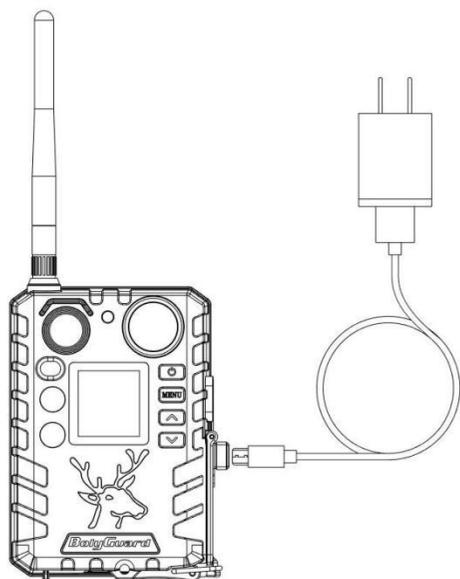
### **2.1 Batteries / Power Supply**

- **Battery**

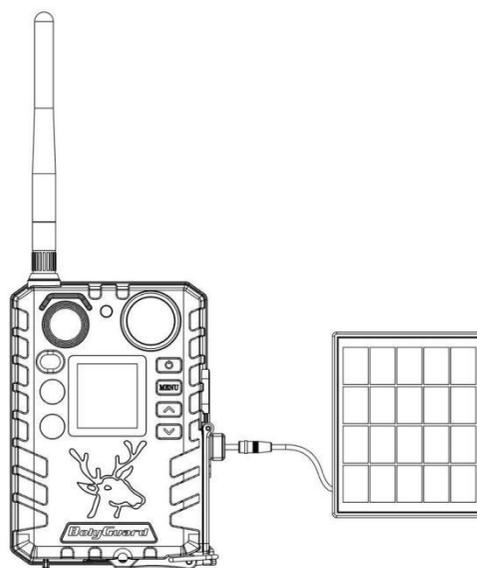
The camera is powered by 2\*18650 batteries.  
(Button top, 18650 battery, length: 67~69mm)

- **External power supply**

It is also possible to power the device or charge the 18650 battery in the device via an external USB power supply adapter(5V/2A) or solar panel. (External power supply not included)



Charging by USB power supply



Charging by solar panel

### **USB port function: (Auto detected by Camera)**

- ▶ **Power charging**

In this mode, USB will charge the camera's 18650 battery.

- ▶ **Mass Storage**

In this mode, the camera will act as a storage device. You can read or copy the photos or videos in the TF card.

## 2.2 TF Card Information

This camera uses a TF card, to take full advantage of the latest technologies, we recommend Class 10 TF cards or better, which have fast transfer speeds and long durability for extensive shooting in the most extreme outdoor conditions.

- **Insert the TF card into the camera before turning on the camera**

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

- **Do not remove the TF card while the camera is on**

Removing the TF card while the camera is on risks damaging the internal components of the camera.

- **If you experience any problems with an inserted TF card**

Try reformatting the TF card by using the camera's main settings option.

## 2.3 Camera Modes

The different modes are accessed by pressing the OK button, marked on the camera.

### ➤ **OFF Mode**

To turn off the camera when the display screen is active, press and hold the OK button until the screen powers off. The camera will still consume a small amount of battery power while in OFF mode. We recommend removing the batteries if the camera will not be used for a long period of time.

### ➤ **SETUP Mode [Test Mode]**

To turn on the camera, press and hold the OK button until the display screen activates,

In this mode, you can customize the camera settings or playback pictures and videos the camera has taken on the LCD display.

After switching the camera to the ON position and if the camera is left alone for more than 20 seconds, the camera will automatically switch to *Hunting Mode*, as described below.

### ➤ **On [Hunting Mode]**

In order to enter the on mode, first enter the setup mode, in the setup mode, automatically enter the on mode after 20 seconds without any operation.

Before entering Hunting Mode, the front (red) LED light will continuously blink for approximately 10 seconds and then turn off. This preset time allows you to adjust the camera's position if needed before the camera becomes active. The camera will take pictures or videos when motion is detected and/or at specific time intervals, according to the programmed settings.

## 2.4 Manage Images and/or Videos

Place the camera in TEST/SETUP mode and press the POWER button to view images or videos, the latest image or video will be shown on the LCD screen. Press the ▲/Up or ▼/Down buttons to cycle through the pictures and videos were taken.

NOTE: Video cannot be viewed directly on the camera.

## 2.5 Password Setup

For encryption settings, enter your four-digit pre-set password to enter the camera. This function helps protect your privacy.

**This function is off by default. To use this function:**

**2.5.1** Press ▲/▼ to adjust the number from 0~9, and ▸/▶ to change the password

**2.5.2** The same password must be entered twice to take effect.

**2.5.3** After the password is set up, you will be required to enter the same password on the next boot to enter the camera.

**If you forgot your password, please contact us for assistance.**

## 3. Camera Setup Settings & Display

### 3.1 Settings Interface & Display

To update the camera settings, turn the camera on to activate the display screen.

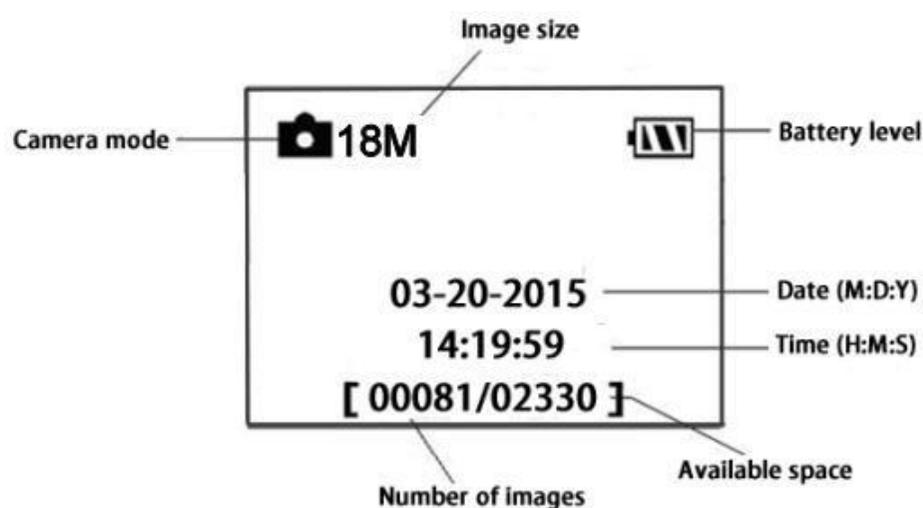
**OK/Power:** Switch on and off, save parameter settings, enter or exit playback mode

**Menu:** Enter or exit Menu

**▲/Up:** Setting items switching

**▼/Down:** options parameter switching, manually take a photo or record a video

When the camera is in the ON Mode, the screen will activate and display the following:



### 3.2 Camera Setup Options

To view the camera settings menu, press OK to power on the camera. When the screen is active, press MENU to enter into the menu settings. Use the ▲ /Up key to select the different items, use ▼ /Down key to select the different options. Press OK to save the setting and press MENU to exit the camera settings menu.

**Note: After changing EACH setting in the Setup menu, you must press OK, or the camera will not save new settings.**

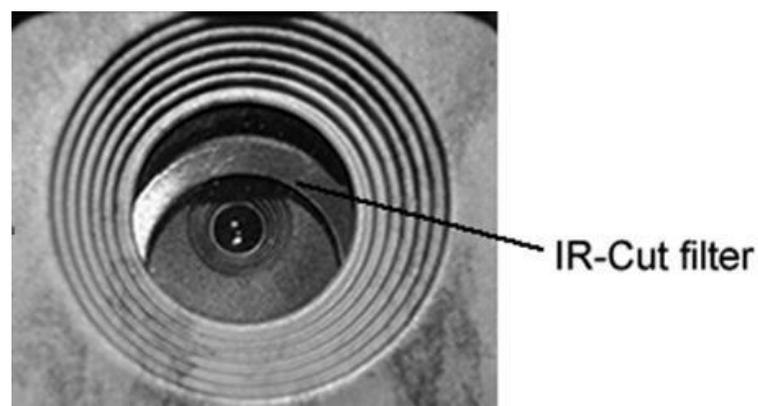
Main Options	Descriptions
<b>Language</b>	Language options include: English, Czech, German, French, Spanish, Swedish, Finnish, Norsk,Dansk,Italian,Russian. <b>Default: English</b>
<b>Camera Mode</b>	There are three camera modes: <b>Photo:</b> to take a photo <b>Video:</b> to record a video <b>Picture + Video:</b> to take a picture with a video clip. This mode disables the photo burst function. <b>Default: Photo</b>
<b>Set Clock</b>	Set the date and time of the camera. The date format is day/month/year and the time format is hour: minute: second.
<b>Photo Size</b>	Choose the image size. 18 MP Day - 14 MP Night 12 MP Day - 10 MP Night 5 MP Day - 5 MP Night <b>Default: 18 MP Day - 14 MP Night</b>
<b>Photo Burst</b>	Choose the number of photos taken after the camera is triggered: 1 Photo, 2 Photo, or 3 Photo. <i>If Pic+Video is selected, Photo burst defaults to 1 photo regardless of the entered value.</i> <b>Default: 1 Photo</b>
<b>Video Size</b>	Choose the video size: 1280x720 or 640x480. <b>Default: 1280x720</b>
<b>Video Length</b>	Choose the duration of the video recording. Valid values extend from 5-60 seconds in 5 second increments. <b>Default: 10 seconds</b>
<b>Time Lapse</b>	The camera can capture images or videos at a preset time interval regardless of motion detection. Changing this setting to a non-zero value turns on Time Lapse mode, and the camera will take photos at the set interval time. <i>If PIR Trigger/Sensitivity and Time Lapse options are BOTH OFF, the camera will not capture any photos or videos.</i> <b>Default: Off</b>

<p style="text-align: center;"><b>PIR Trigger/Sensitivity</b></p>	<p>This setting is for the sensitivity of the PIR sensor. There are four sensitivity parameters: High, Normal, Low, and Off. It is recommended to use HIGH sensitivity in areas with little environmental interference and warmer, humid climates. Use LOW sensitivity for areas that have a lot of interference. The sensitivity of the PIR is affected by temperature. Higher temperatures lead to lower sensitivity.</p> <p><i>If PIR Trigger/Sensitivity and Time Lapse options are BOTH OFF, the camera will not capture any photos or videos.</i></p> <p><b>Default: Normal</b></p>
<p style="text-align: center;"><b>PIR Interval</b></p>	<p>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. The PIR Interval can be set between zero seconds to a maximum of 1 hour.</p> <p><b>Default: 10 seconds</b></p>
<p style="text-align: center;"><b>Work Day</b></p>	<p>Choose the days of the week you want the camera to work. This setting is only available in Hunting Mode.</p> <p><b>Default: All</b></p>
<p style="text-align: center;"><b>Work Hour</b></p>	<p>This parameter defines a certain time in a day when the camera can be triggered, while the device will shut off during non-working hours. The effective value ranges from 00:00 to 23:59.</p> <p>When this parameter is set to Off, the camera works at all times. When the timer switch is ON, the camera works only during the time according to the preset settings.</p> <p><b>Default: Off</b></p>
<p style="text-align: center;"><b>Camera Position</b></p>	<p>Used for multiple cameras in an area. You can set an A-Z indicator for each of your cameras to distinguish between which photos are from a specific camera.</p> <p><b>Default: Off</b></p>
<p style="text-align: center;"><b>Recycle Storage</b></p>	<p>In hunting mode, if the TF card is full, the oldest images or videos will be overwritten by new pictures or videos. This keeps you from having to retrieve your memory card manually. In SETUP mode, this option is disabled.</p> <p><b>Default: Off</b></p>
<p style="text-align: center;"><b>Password Set</b></p>	<p>Enter your four digits password to enter your camera when powering it on.</p> <p><b>Default: Off</b></p>

<b>Format SD</b>	All information on the TF card will be deleted. Make sure to make a backup of important data already on the TF card.
<b>Default Settings</b>	Restores all settings back to default values.
<b>Version</b>	Shows firmware Version.

## 4. Troubleshooting

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



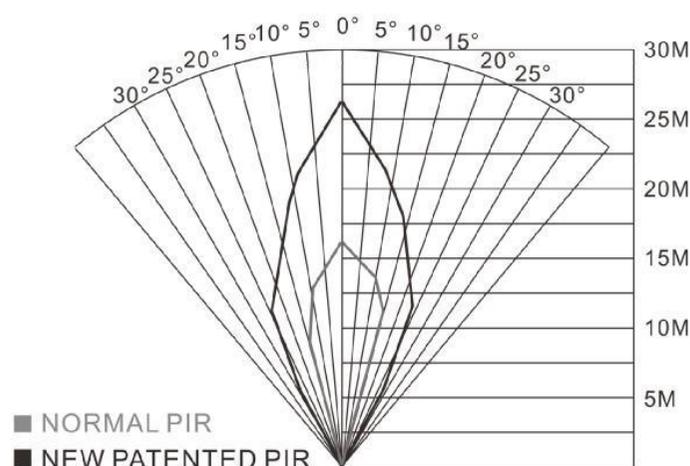
A: The camera is not broken. It's an IR-cut filter. When the camera is powered on, the IR-cut will cover the lens. Only when the camera is powered off will the IR-cut be at a random place, sometimes covering the lens.

2. The display screen is suddenly black.

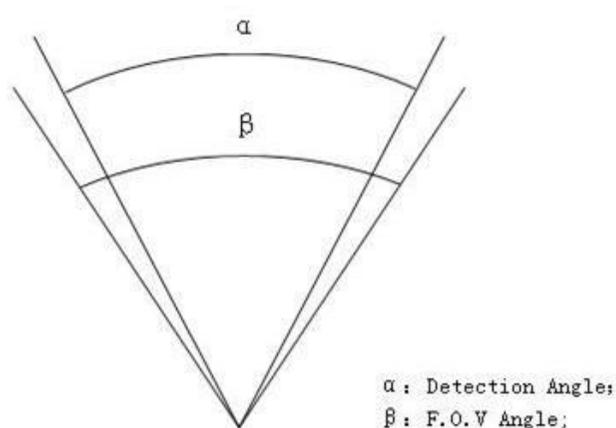
A: The camera may be in "Hunting mode." Press MENU to wake it up. If there is no response, the camera may be powered off. Please check if the batteries are still good and in place. Once battery power and placement is verified, press and hold down the OK/POWER button until the display turns on, indicating the camera powering up.

## 5. PIR Detection Zone

This camera has a new patented PIR, the following picture shows the compared detection zone between normal PIR and the new patented PIR.



The PIR detection angle ( $\alpha$ ) is smaller than the field of view (FOV) angle ( $\beta$ ). The advantage of this design is to reduce empty an empty picture's rate and capture most, if not all, objects in motion.



## **6. Technical Specifications**

Image Sensor	3MP CMOS Sensor
Lens	F/NO=2.4 FOV(Field of View)=57°
LED Type	940nm
LED Number	2pcs
PIR Detection Range	100ft
Illumination Distance	100ft
Display Screen of Remote Control	1.44" Color LCD
Memory Card	Up to 32 GB
Image Resolution	18 MP Day - 14 MP Night 12 MP Day - 10 MP Night 5 MP Day - 5 MP Night
Video Resolution	1280x720,640x480
PIR Sensitivity	Adjustable (High/Normal/Low/OFF)
Trigger Time	0.7s
Weight	BG310 without battery:174g Solar Panel:61g
Operation/Storage Temperature	-20 to +60°C / -30 to +70°C
Power Supply	2*18650 batteries or Solar Panel
Sound Recording	Available
Mounting	Rope/Belt/Python lock
Dimensions	BG310:115*81*45 mm Solar Panel:74*89*30mm or 179*126*13mm
Operation Humidity	5% - 90%
Security Authentication	FCC,CE,RoHS

## **7. Parts List**

### *BG310/BG310-FP*

<b>Part Name</b>	<b>Quantity</b>
Camera	One
Belt	One
User Manual	One
18650 Battery (BG310-FP with)	Two
TF Card (BG310-FP with)	One
TF Card Adapter (BG310-FP with)	One
Iron Sheets	One

Version 1.1

## **WARRANTY CARD**

**Customer Name:** \_\_\_\_\_

**Contact Address:** \_\_\_\_\_

**Date of Purchase:** \_\_\_\_\_

**Contact Tel:** \_\_\_\_\_

**Model No.:** \_\_\_\_\_

**Series No.:** \_\_\_\_\_

**Retailer:** \_\_\_\_\_

The camera manufacturer provides 12 months warranty for this product against manufacturing defects or malfunctions. If your camera fails to function under regular use within one year, the camera manufacturer will repair or replace the camera free of charge. This warranty does not cover improper use of the camera resulting in damage. The camera manufacturer can provide extra service for your camera after the warranty expiration, but the customer has to be responsible for additional charges on parts, labor and shipping costs therefore brought.

**Please contact your reseller for warranty service**