BG330 User Manual

ScoutGuard

BOLY

Est. 2007

CAMERA TRAPS

YOUR PATIENT WITNESS

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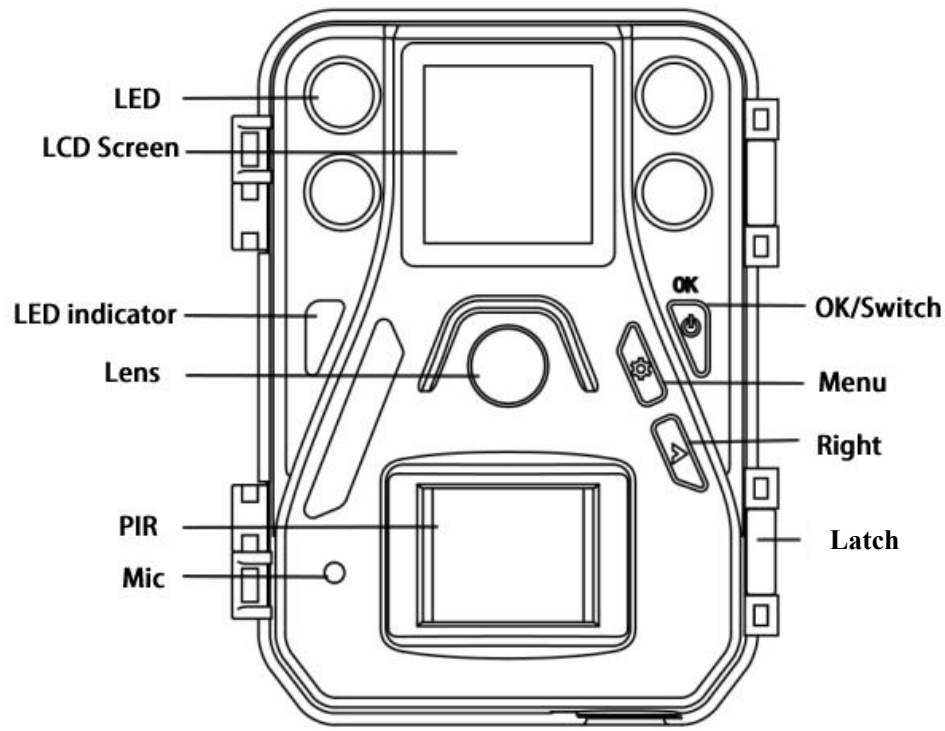
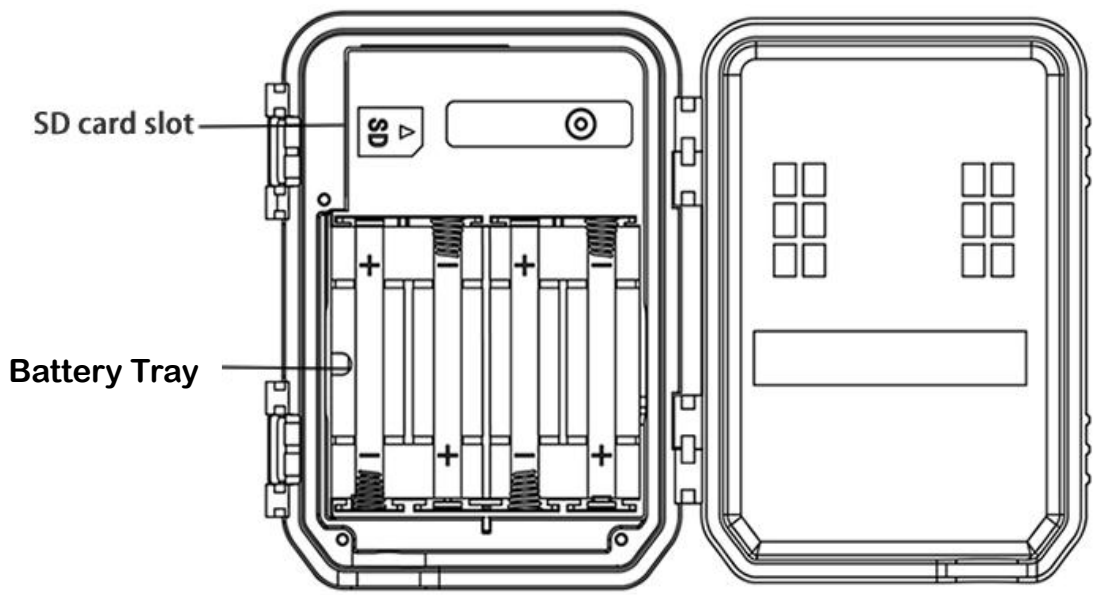
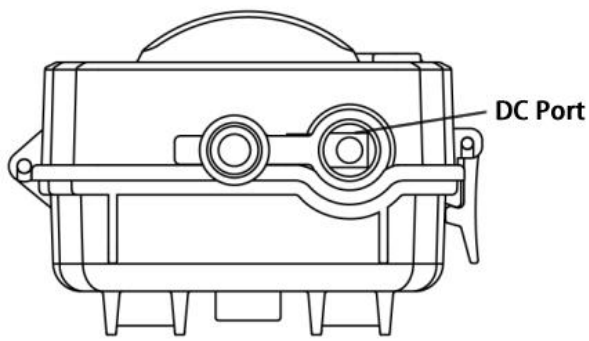
1. Getting Started







External AC/DC connector (4*1.7mm)

2. Camera Operations

2.1 Batteries / Power Supply

The camera is powered by four AA batteries. High-density, high-performance alkaline, Lithium or high capacity (min 2600mAh) NiMH rechargeable batteries are recommended. When the batteries are low, the camera will beep twice and automatically shut down.

A DC 6-Volt, 2 Amp external power supply adapter can also be used to power the camera (not included).

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. Secure Digital High Capacity (SDHC) PRO cards work with SDHC compatible devices only. 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

The camera will operate normally with a locked SD card inserted, but the card will not be able to store captured images or videos taken by the camera.

Do not remove the SD card while the camera is on

By removing the SD card while the camera is on risks damaging the internal components of the camera.

If you experience any problems with an inserted SD card

Try reformatting the SD card utilizing the camera's main settings option.

2.3 Camera Modes

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

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 play back 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

The camera will take pictures or video clips when motion is detected and/or at specific time intervals, according to the programmed settings. "On / Hunting" mode is automatically activated, if the camera is turned on and left alone for 20 seconds. Before entering On / 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. To "wake" the camera and access the camera menu functions, press and hold the OK button, until the display becomes active.

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 - It is recommended to remove the batteries, if the camera will not be used for a long period of time.

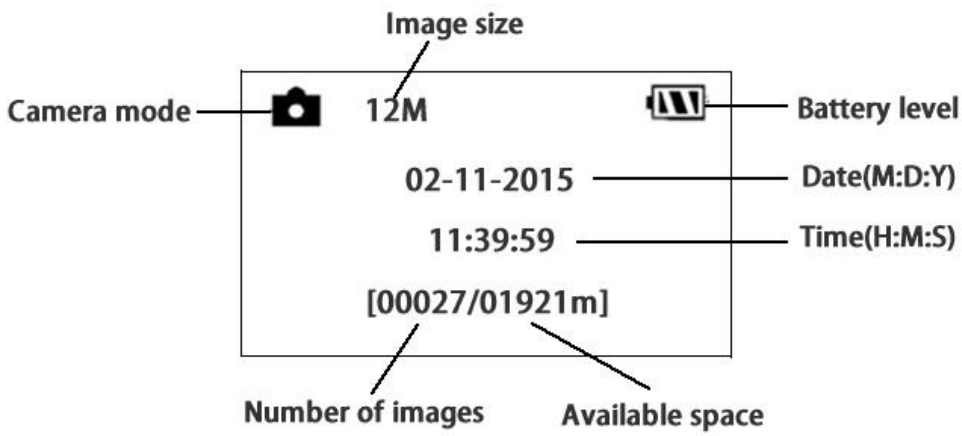
3. Camera Setup Settings & Display

3.1 Settings Interface & Display

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

OK/Power: Save parameter settings and view pictures
Settings/Sprocket: Switch between Test/Setup and On modes
►: Capture a photo or record a video manually

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



3.2 Manual Image / Video Capturing

Place the camera in ON mode and press ► to manually capture photos or record video. Press ► again to stop capturing video.

3.3 Manage Images and/or Videos

Place the camera in TEST/SETUP mode and press OK/POWER button to view images or videos.

The latest image or video will be shown on the LCD screen. Press the ► or OK/POWER buttons to cycle through the pictures and videos taken.

NOTE: Video cannot be viewed directly through the camera.

3.4 Camera Setup Options

To view the camera settings menu, Press OK to “wake up” the camera or when the screen is active, press MENU to enter into the menu settings. Use the RIGHT key to select the different options, press OK to save the setting and press MENU to exit the camera settings menu.

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

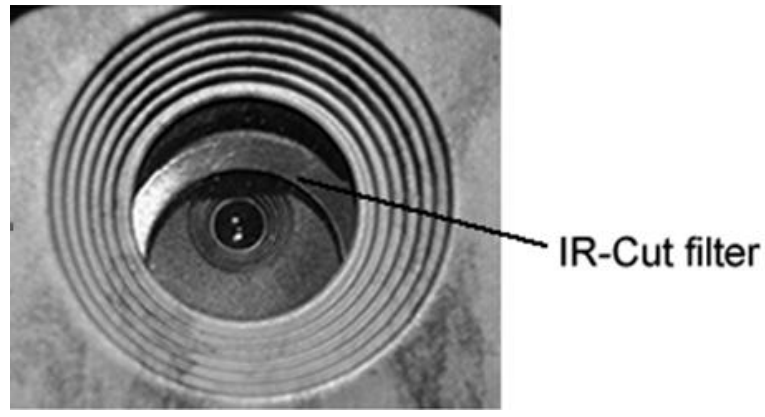
Main Options	Descriptions
Language	Language options include: English, Czech, French, German, Spanish, Swedish, and Finnish. **Default::English**
Camera Mode	There are three camera modes: **Photo:** to take the photo **Video:** to capture video **Pic+Video:** to take a picture with a video clip. This mode disables the photo burst function. **Default: Photo**
Photo Size	Choose the image size: 5MP, 8MP or 14MP **Default: 14MP**
Video Size	Choose the video size: 1280x720 or 640x480. **Default**: **1280x720**
Photo Burst	Choose the number of photos taken after the camera is triggered: 1 Photo, 2 Photo, or 3 Photo. *If Pic+Video is selected, Photo burst defaults to 1 photo, regardless of entered value.* **Default**: **1 Photo**
Video Length	Choose the duration of the video recording: Valid values extend from 10 to 60 seconds in 5 sec increments. **Default**: **5 seconds**

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. The PIR Interval can be set between zero seconds to a maximum of 1 hour. **Default: 10 seconds**
PIR Trigger/Sensitivity	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 also for warmer, humid temperatures or climates. Use LOW sensitivity for areas that have a lot of interference. The sensitivity of the PIR is effected by temperature. Higher temperatures leads to lower sensitivity. *If PIR Trigger/Sensitivity and Time Lapse options are BOTH OFF, the camera will not capture any photos or videos.* **Default**: **Normal**
Working Hour	This parameter defines a certain time in a day when the camera can be triggered, while in the rest of the time the device is shut off. The effective value ranges from 00:00 to 23:59. 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 users preset settings. **Default**: **Off**

Time Lapse	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. *If PIR Trigger/Sensitivity and Time Lapse options are BOTH OFF, the camera will not capture any photos or videos.* **Default: OFF**
Recycle Storage	In On / Hunting mode, when the SD card is full, the oldest images or videos will be overwritten by new pictures or videos, so you don't need to retrieve your memory card manually. In SETUP mode, is option is disabled. **Default: OFF**
Set Clock	Set the cameras date and time. The date format is **month/day/year**, the time format is hour: minute: second.
Format SD	All information on the SD card will be deleted. Make sure that you have made a backup of important data already on the SD card.
Default Settings	Restore all settings back to the default values.

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 cover the lens. Only when the camera is powered off, the IR-cut will be at a random place, sometimes covering the lens.

2. The display screen is suddenly black.
A: The camera may be in "On / 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.

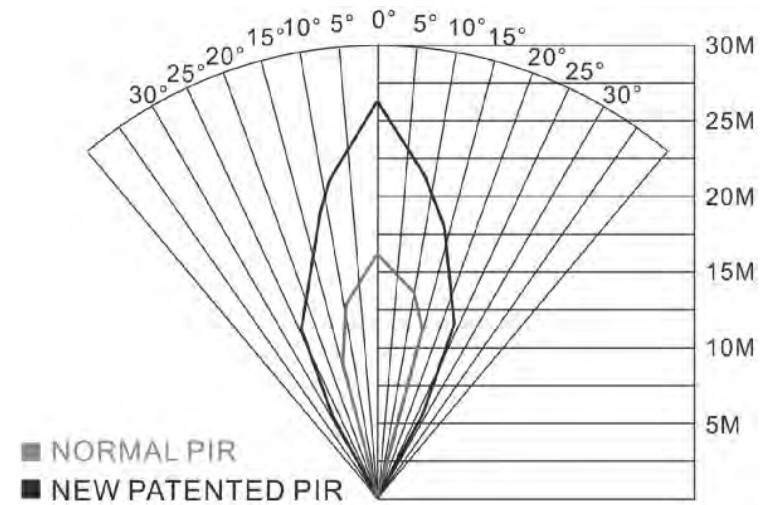
5. Additional Information

Avoid varying temperature and motion disturbances in front of the camera, such as falling leaves, air-conditioner outlets, and other sources that may easily sway and move to prevent false triggering.

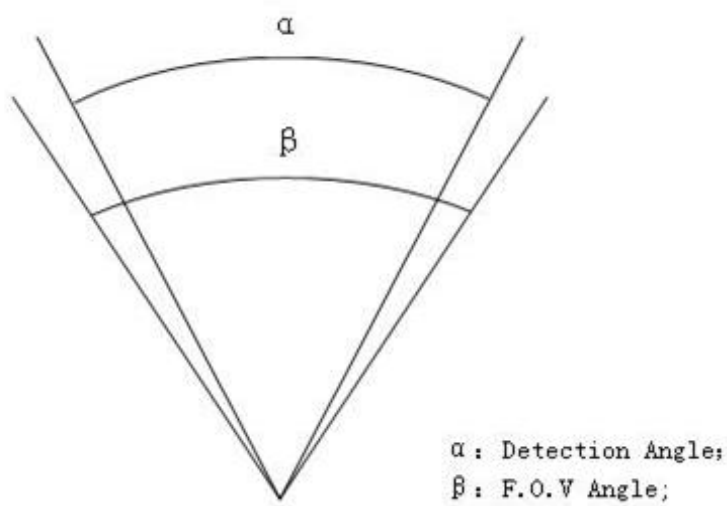
To adequately capture the full image of the tracked game, the camera should be placed high above the ground, respective to the object size of the game. Generally, one to two meters is optimal.

6. PIR Detection Zone

This camera has a new patented PIR design, which allows the detection range to reach to 70ft in good environments. The 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 an empty picture's rate and capture most, if not all, objects in motion.



7. Technical Specifications

Image Sensor	3MP CMOS Sensor 5MP, 8MP,14MP Interpolation
Lens	F/NO=2.2 FOV(Field of View)=55°
PIR Detection Range	65ft
Illumination Distance	70ft
Display Screen of Remote Control	1.44” Color LCD
Memory Card	Up to 32 GB
Video Resolution	1280x720(20fps) 640×480(20fps)
PIR Sensitivity	Adjustable (High/Normal/Low/OFF)
Trigger Time	<0.8s
Weight	180g(without battery)
Operation/Storage Tem.	-20 - +60°C / -30 - +70°C
Power Supply	4×AA
Sound Recording	Available
Mounting	Rope/Belt/Python lock
Dimensions	107 x76 x40 mm
Operation Humidity	5% - 90%
Security Authentication	FCC, CE, RoHS

For more details about products or software, please visit our website at : http://www.bolymedia.com/index/Support

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