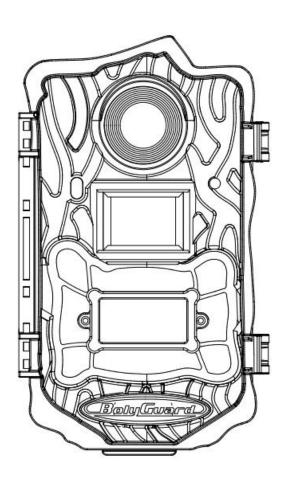


## **Hunting Camera**

BG962 Series/BG960 Series



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### 1.Basic

#### 1.1 General Description

This automatic surveillance camera can be triggered by any human or animal movement by use of a highly sensitive Passive Infra-Red (PIR) motion sensor. The camera captures high quality pictures (up to 36 mega pixels) or video clips. It can take clear black and white pictures or videos in the night as well.

**BG962-X36W:** This camera integrates 40 940nm LEDs and a xenon flash. The xenon flash acts supplement light at night, which turns to infrared light after filtering and can reduce time of exposure. This function leads to a no motion blur in video recordings.

BG962-K36W/BG960-K24W: This is a digital infrared surveillance camera with 50 940nm LEDs. There is a 2" color LCD display screen on the camera. The device is designed for outdoor use and is resistant against water and snow. Furthermore, the camera can be used as a portable digital camera. Pictures or videos can be taken manually by pressing ■ on the operation panel. Maximum pixel of BG960-K24 is 24MP.

**BG960-I24W:** This is a digital infrared surveillance camera with 50 850nm LEDs. High quality pictures with long distance light range can be captured.

## 1.2 Camera at a Glance

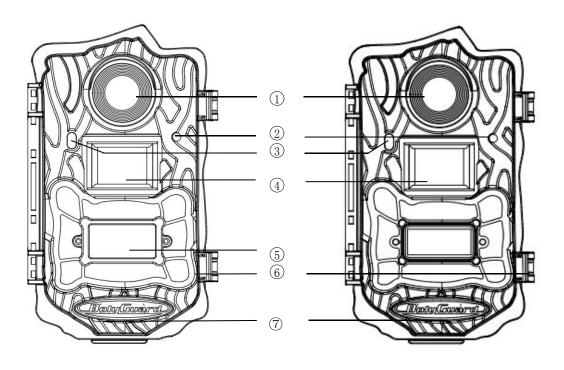


Fig. 1: Front view of BG962-X36W Fig. 2: Front view of BG962-K36W/BG960 Series

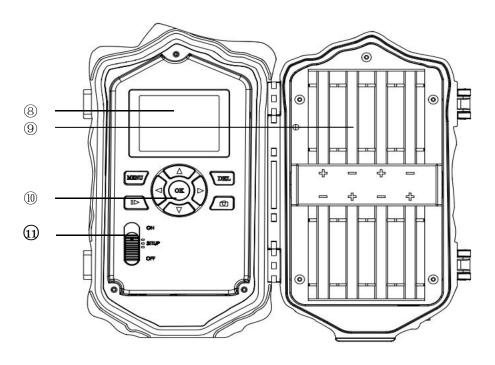


Fig. 3: Inner panel view

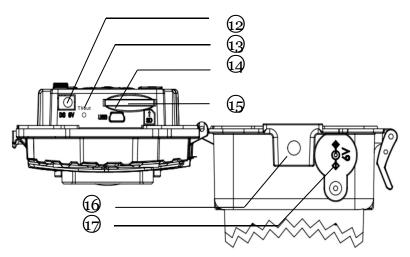


Fig. 4: Bottom view

1	Lens	2	Microphone	3	Indication LED
4	PIR	(5)	Flash	6	Lock
7	Speaker	8	LCD display	9	Battery bays
10	Operation panel	1	Power Switch	12	DC 6V
13	TV out	1	USB port	(5)	SD card slot
16	Bottom Screw	07	DC hole and		
			stopper		

MENU	Enter/Exit the menu	DEL	Delete photos or videos
	Exchange between preview		Select option (left, right)
<b>I</b> ▶	and playback state	<b>4&gt;</b>	Change the photo size
	Select Item (UP),		Select Item (Down),
<b>A</b>	Increase value	•	Decrease value
OK	Make selection (OK)	101	Capture photos or videos



OFF: turn off the power.

SET UP: change camera settings.

ON: enter into hunting mode or security mode

#### 1.3 Shooting Information Display

When the camera is turned on (power switch is slid to SETUP position). The current settings will be displayed on the screen.

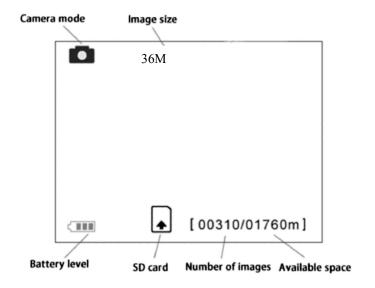


Fig. 5: LCD Display

#### 1.4 Cautions

- ★The camera is powered by 8 AA batteries or DC power adapter with output of 6V (recommended) between the ranges of 5-12V. Please insert batteries correctly by matching the polarity. (The voltage of a single battery should be higher than 1.5V)
- ★Insert the SD card when the power switch is in the OFF position before testing the camera. The camera has no internal memory for saving images or videos. If a SD card is not inserted, the camera

- will shut down automatically after an indication beep.
- ★Please do not insert or take out the SD card when the power switch is in the ON position.
- ★It is recommended to format the SD card by using the camera when used for the first time.
- ★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 SETUP mode, the camera will shut down automatically after 3 minutes if left idle. Please turn on the power again if you want to continue to work with the camera.

## 2.Quick Start Guide

#### What You Need

To use camera, you need:

- An unlocked SD card;
- 4 or 8 AA batteries (high-density and highperformance alkaline batteries are recommended)
- A PC with a USB 2.0 port and internet access

### 2.1Power Supply

- ★1) Battery Power: Insert 4 or 8 AA batteries according to shown polarity. (The voltage of a single battery should be higher than 1.5V)
- 2)External Power: Insert 6V DC external power adapter.

When battery is extremely low, the camera will automatically shut down after indication sounds. Please change the batteries if this happensz.

#### **NOTE:**

- The battery can be used as a backup for emergency when using external power or solar charging.
- There will be risk of explosion if battery is replaced by an incorrect type.

#### 2.2 Insert SD Card

Insert a new SD card into the card slot. Please ensure SD card is on the "write" (not locked) position, otherwise the camera will not function properly.

## 2.3 Common Camera Operations

То	Do This	
Preview state	Move the power switch to SETUP to access the	
	home screen.	
Setting state	Move the power switch to SETUP. Press	
	MENU to access settings page.	
Playback state	Move the power switch to SETUP. Press	
	to access playback state.	
Switch photo	When on the homes creen, press▲ ▼to change	
and video mode	between the photo, video and Pic+video	
	modes.	
Manual capture	When on the home screen (photo mode), press	
a photo	to capture a photo.	
View photos	When in playback mode, press▲▼ to view	
and videos	photos and videos.	
Delete photos	When in playback mode, press ▲▼ to select	
or videos	DELETE Item. Press DEL to delete a photo or	
	all.	

## 3.Advanced Operation

#### 3.1 Work Mode

**SETUP mode**: Switch the camera to the SETUP position to set camera, do a manual capture, play back photos and video clips, or send MMS manually.

Hunting mode: Switch the camera to the ON position to capture photos or videos. When the camera senses movement in its monitoring region, it will capture photos or videos automatically according to the previously programmed settings. After switching the camera to the ON position, the motion indication LED (red) will blink for about 10 seconds. This time interval allows you to position the camera for automatic surveillance operations (e.g. to close the camera and lock it, to fix the camera on a tree and walk away).

**Off mode**: Switch the camera to the OFF position to power off the camera.

### 3.2 Trigger Mode

**PIR Triggering**: PIR triggering is the default setting. The camera works only when motions are detected. If PIR sensitivity is set as PIR OFF, the camera stops PIR triggering.

**Timer Triggering**: If the Timer Triggering is OFF, then it is disabled. When changing the timer triggering interval to a non-zero value, the camera

will start to work at the preset interval.

PIR & Timer Triggering: For both PIR triggering and Timer triggering, the user needs to go to PIR sensitivity to set "normal, high or low" sensitivities according to the external environments, and set the Timer interval to a desired non-zero value. The camera will capture pictures or videos in a preset time interval even when there is no motions detected. The camera will also capture pictures and videos if motions are detected.

### 3.3 Item Settings

Move the power switch to the SETUP positions and press MENU to enter SETUP Mode. You can adjust settings to your desired needs. The following table shows the camera setting items.

**Camera Setting Items** 

Setting	Description	
Items		
Camera	Captures photos, records videos, or does	
Mode	both	
Photo Size	Choose the photo size.	
Video Size	Choose the video size.	
Choose the number of photos take		
Photo Burst	each triggering.	
	Choose duration of video recording. This	
	parameter can only be adjusted when the	
Video	device in the video mode while in the ON	
Length	mode. Its value extends from 5 to 180	
	seconds. The default value is 10 seconds.	
	Press LEFT or RIGHT to decrease or	

	in anaga the relies by 10 asserts
	increase the value by 10 seconds.
	Set camera date and time. You can
Set Clock	change the date and time of the device by
	setting this parameter when necessary,
Set Clock	e.g., after every battery change. The date
	format is <b>month/day/year</b> , the time
	format is <b>hour</b> : <b>minute</b> : <b>second</b> .
	Time lapse means the camera can
	capture images or videos at a preset time
	interval regardless of whether motions
	are detected. The default parameter is
	Off, which means the timer function is
Time Lapse	disabled. Changing this parameter to a
Time Lapse	
	non-zero value turns on the Time Lapse
	mode, and camera will take photos at the
	given time interval.
	NOTE: if PIR Trigger is set to Off,
	then Time Lapse can't be set to Off.
	Choose sensitivity of the PIR sensor.
	This parameter defines the sensitivity of
	the PIR: High, Normal, Low or Off. The
	default value is "Normal". The higher
	sensitivity indicates that the camera is
	more easily triggered by motion, thereby
	taking capturing more pictures or video
	recordings. It is recommended to use
	high sensitivity in a room or environment
	with little interference, and to use lower
	sensitivity for outdoor or environments
PIR Trigger	with lots of interference (e.g. wind,
	smoke, near window, etc). Furthermore,
	omone, near minuon, etc). I armenilore,

	the sensitivity of the PIR is strongly			
	related to the temperature. Higher temperature leads to lower sensitivity.			
	<b>NOTE:</b> if Time Lapse is set to Off,			
	then PIR Trigger can't be set to Off.			
	This parameter indicates how long the			
	PIR (Passive Infrared motion sensor) will			
	be disabled after each triggering while in			
	the ON mode. During this time, the PIR			
	of the device will not react to any			
PIR Interval	movements. The minimum interval is o			
	second, meaning the PIR will work all the			
	time. The maximum interval is 1 hour.			
	This means the PIR will be disabled for 1			
	hour after each triggering. Press LEFT or			
	RIGHT to decrease or increase the value.			
	This parameter defines a certain time in a			
	day when the camera can be triggered,			
	whereas the device will shut off during			
	non-working hours. The effective value			
XA7 1- TT	ranges from 00:00 to 23:59.			
Work Hour	The default set is Off, which means the			
	camera will continue to keep working.			
	Timer switch On means the camera only			
	works during the time according to the			
	preset settings.			
TAY I D	Choose the days of the week the camera			
Work Day	is functional.			
	The camera can play audio files at a			
Game Call	preset time of the day. The audio file			
	must be saved in the directory of			

	\DCIM\100BMCIM\ with a name of AUDIxxxx(from 0000 to 9999).WAV. after SD card has been formatted and game call mode is on. An audio file of less than 2 minutes is recommended, otherwise it will consume much more power. (Only for BG962 Series)	
Language	Choose the desired language	
<b>Beep Sound</b>	Enable or disable the beeping sound	
Camera Position	Camera position can be set from A-Z to help distinguish which photo is taken by which camera.	
Recycle Storage	videos in order to prevent having t	
All images and videos in the SD card videos		
<b>Default Set</b>	Restores all customer settings to default values.	
Version	Version information.	

<sup>\*</sup>After changing each setting in SETUP mode, you must press "OK" otherwise the camera will not accept new changes.

## 3.4Default Setting

<b>Setting Items</b>	Default	Options
Camera Mode	Photo	Video, Pic+Video
Photo Size	36MP (BG962 Series) 24(D)/18(N)MP (BG960 Series)	25MP/14MP (BG962 Series) 16(D)/12(N)MP 10(D)/8(N)MP
Video Cigo		(BG960 Series)
Video Size Photo Burst	1920x1080 1 Photo	1280x720/640x480 1-5photos(BG962Series) 1-3photos(BG960Series)
Video Length	10 Sec	5–180 sec
Set Clock	Enter	
Time Lapse	Off	5-55Min / 1-8H
PIR Trigger	Normal	High /Low
PIR Interval	10Sec	0-55 Sec / 1-60 Min
Work Hour	Off	On
Work Day	All	Monday, Tuesday,Wednesday,Th ursday,Friday,Saturday, Sunday
Game Call	Off	On (Only for BG962 Series)
Language	English	Deutsch / Suomi Svenska / Norsk Dansk/Italiano/Russian /Cestina
Beep Sound	On	Off
Camera Posit	Off	A-Z Position

#### 3.Advanced Operation

Recycle Storage	On	Off
Format SD	Enter	
Default Set	Save	
Version	Enter	

#### 3.5 Power Off

Switch the camera to the OFF position to power off the camera. Please note that even in OFF mode, the camera still consumes certain power at  $\mu A$  levels. Therefore, please remove batteries from camera when not in use.

## 4. Mounting The Camera

When using the camera in outdoor environments, such as hunting or monitoring the living habits of wild animals, properly mount the device on something stable. We recommend mounting the camera on a tree to get optimal picture quality. Recommended distance is 16ft from the tree to the target monitoring area, and recommended height from the ground is 4.9ft~6.5ft. Adjust the viewing angle properly (view angle of this camera is 110°).

There are three ways to mount the camera: using a band shaped belt, python lock or mounting bracket.

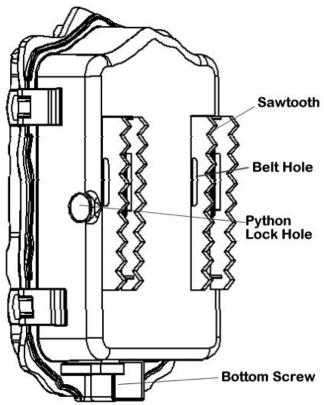


Fig. 6: The back panel of the camera

## 5.PIR Detection Zone

This camera has a new design of patented PIR. The patented PIR's detection range can reach to 100ft in good environments. The following picture shows the compared detection zone between the normal PIR and new patented PIR.

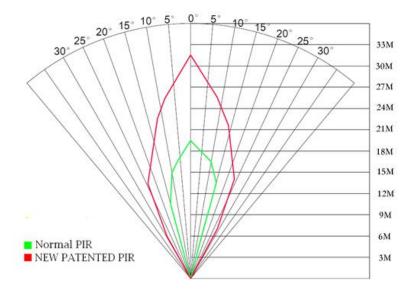


Fig. 7: PIR Detection Zone

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

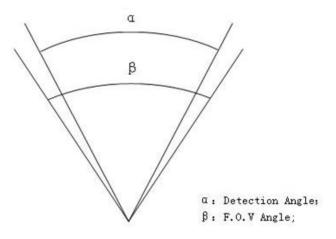


Fig.8: Detection angle vs. FOV angle

# **6.Technical Specifications**

Image Sensor	14MP Color CMOS (962-K/X)
image Sensor	5MP Color CMOS (960-K/I)
Long	F/NO=2.4
Lens	FOV(Field of View)=110°
PIR detection range	100ft
Display Screen	2.0" LCD
Memory Card	From 8MB to 32GB
	962-K/X:
	36MP/25MP /14MP
Distance Described	960-K/I:
Picture Resolution	24(Day)/18(Night) MP
	16(Day)/12(Night) MP
	10(Day)/8(Night) MP
	1920x1080
Video Resolution	1280x720
	640x480
PIR Sensitivity	Adjustable (High/Normal/Low)
Tui gaan Tima	<1s (962-K/X)
Trigger Time	<0.7s (960-K/I)
Weight	0.35 kg(without battery)
<b>Operation/Storage</b>	00 16000
Temperature	-20 - +60°C
Dhata Darrat	1-5photos (BG962 Series)
Photo Burst	1-3photos (BG960 Series)
Video Length	5-180s
Power Supply	8×AA or 4×AA
	External DC 6V,2A
Stand-by Current	<300uA

## **Technical Specifications**

Low Battery Alert	LED Indicator	
Sound Recording	Available	
Mounting	Rope/Belt/Python lock	
Dimensions	160 x 90 x 75 mm	
<b>Operation Humidity</b>	5% - 90%	
Security	FCC, CE, RoHS	
Authentication		

## 7.Parts List

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

For more detail about our product or software,please downlo ad from our website: <a href="https://bolyinc.com/updates/">https://bolyinc.com/updates/</a>



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