

User Manual

BOLY

Hunting camera

SG560K/SG560X/SG562-BW/SG562-C

SG860C/SG860U/SG2060 Series/SG562-D




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1. Basics

1.1 General Description

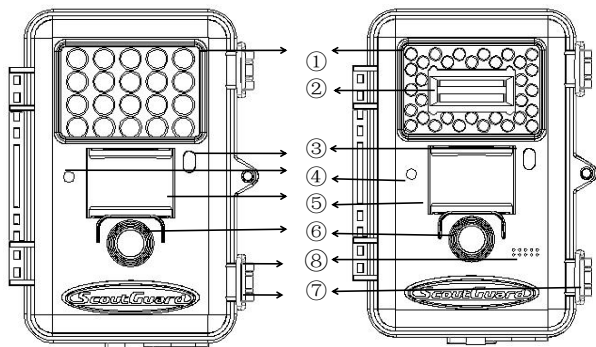
Thanks for your purchase of Boly Scouting Camera. Boly cameras can be used as trail camera for hunting or monitoring animals, or an automatic surveillance device for watching and guarding birds, even for guarding and recording unexpected intrusions to homes, shops, school, depots, offices etc. It can be left alone for a few months and save event records automatically in digital format. The camera is designed for outdoor use and resistant against water and snow. Furthermore, the camera can be used as a portable digital camera. Picture and videos can be taken manually by pressing  on the operation panel.

Product Feature	
Models	Outstanding characteristic
SG560K	Extra long range black IR HD camera with improved stealth. Picture quality, and detection & illumination distance.
SG560X	No Motion Blur Camera, Extra Long Range.
SG562-BW	Two focus, No motion blur. mainly be used for bird watching and guarding
SG562-C	Color 720P HD video at night
SG562-D	Color photos and videos at night. Detection & illumination distance.
SG860C	color 720P HD video at night

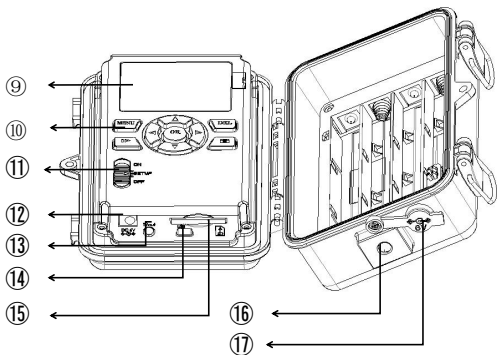
1 Basics

SG860U	Two focus black IR HD trail camera
SG2060-X	Ultra high quality 25MP pixels, No motion blur
SG2060-U	Ultra high quality 25MP pixels, Two focus
SG2060-K	Ultra high quality 25MP pixels, Extra Long Range

1.2 Camera at a Glance



①	IR LED	②	Flash: Available for SG560X/ SG2060-X/SG565F/SG562-D
③	Indication	④	Mic: Available for SG562-BW/ SG2060Series/SG562-D
⑤	PIR	⑥	Lens
⑦	Lock	⑧	Speaker: Available for SG562-BW/ SG2060Series



⑨	LCD
⑩	Operation Panel
⑪	Power Switch
⑫	DC in
⑬	TV out
⑭	USB port
⑮	SD card slot
⑯	Bottom screw
⑰	DC hole and stoper

Operation Panel Explanation

Menu: Enter the program menu.

◀▶: Exchange between playback and preview mode.

DEL: Delete a photo or video.

📷: take a photo or a video manually.

▲◀▶▼: Set parameters.

OK: Save parameters and play videos.

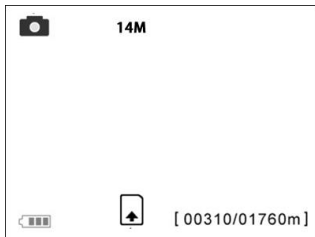
Power switch





OFF: turn off the camera.

SET UP: change camera settings.

ON: enter into hunting mode or security mode.

1.3 shooting Information Display



	Camera mode
	Video mode
14M	Image size
	Battery level
	SD card status
[00310/01760m]	[Number of image/ Available space]

Shooting information display

1.4 Cautions

- The working voltage of the camera is 6V. Please install batteries according to shown polarity. Please remove the battery if the camera will not be used for a long time.
- Please insert the SD card before power on camera, or the camera will not work. Please do not take out the SD card when the power switch is at ON position. Please unlock the write-protect switch before inserting the SD card.
- It is recommended to format the SD card by the camera or computer when used for the first time, in that many other SD cards formatted by other cameras have poor compatibility with different brands of cameras.
- In the SETUP mode, the camera will shut down automatically after 3 minutes if no operation is done. Please turn on the power again if you want to continue to work with the control.

2. Quick Start Guide

What You Need

To use camera, you need:

- An unlocked SD card;
- 4 or 8 AA batteries, High-density and high-performance alkaline batteries are recommended;

2.1 Power Supply

1) Battery Power: Load 4 or 8 AA batteries according to shown polarity..

2) External Power: Insert 6V DC external power adapter.

NOTE:








- The battery can be just 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.
- Please dispose of used batteries according to the instructions.

2.2 Insert The SD Card

The camera has no storage space to store pictures. You need to insert a SD card to ensure the camera work normally. You can use any SD card capacity up to 32G.

NOTE: Before insert SD card into camera, make sure the power switch is OFF and SD card is on “write” position.

2.3 Do The Camera Common Operation

Camera Common Operation	
To	Do this
Setting state	Flip the power switch on SETUP, Press MENU into Setting state.
Preview state	Flip the power switch on SETUP into preview state.
Playback state	Flip the power switch on SETUP, Press  into playback state.
Switch photo and video mode	When in preview state, Press   to change between the photo, video and Pic+video mode.
Manual capture a photo	When in preview state(photo mode), Press  to capture a photo.
Manual capture a video	When in preview state(video mode), Press  to capture a video.
View photos and videos	When in playback state, Press   to view photos and videos
Play the video	When view a video, Press OK to play the video.
Delete photos or videos	When in playback state, Press DEL to delete photos or videos.

1.Setting state:Do customer settings.

2.Preview state:Preview the scene in the front of the camera.

3.Playback state:View photos or videos via LCD display.

3. Advanced Operation

3.1 Work Mode

SETUP mode: Switch the camera to SETUP position to set camera ,preview the scene, view photos or videos.

Hunting mode: Switch the camera to ON position to monitor animals. After switching the camera to 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, e.g. to close the camera and lock it, to fix the camera on a tree and walk away. After entering into hunting mode, no manual controls are needed and possible. When animal or human intrudes into the monitoring region, the camera will take pictures or videos automatically according to the previous programmed settings.

Off mode: Switch the camera to 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 get detected, while, if PIR sensitivity is set as PIR OFF, the camera stops PIR triggering.

Timer Triggering: The Timer Interval default setting is OFF which means the timer triggering is disabled. While set the timer triggering interval to a non-zero value, the ca

mera starts to work at a preset interval. User need to OFF the PIR triggering (choose PIR sensitivity as PIR OFF) if want the camera to work only via Timer triggering.

PIR&Timer Triggering:For both PIR triggering and Timer triggering, the user need 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 there is no motions detected , the camera will also capture pictures and videos if motions get detected.

3.3 Setting Items

Flip the power switch on SETUP,Press MENU into SETUP Mode.

Setup	
Camera Mode	Photo
Set Clock	Enter
Photo size	14MP
Photo burst	1 Photo
Menu → Exit	OK → Save

camera setting screen

You can set menu according to the actual needs.The following table shows the setting items.Not all setting items are available for different camera models.For example, Object distance/Distance is only available for SG560,SG562-B

3 Advanced Operation

W,SG860U,SG2060 series.which means the camera like SG560K don't offer the option.

Camera Setting Items	
Setting Items	Description
Camera Mode	There are three camera modes. Photo: to take the photos. Video: to capture video. Pic+Video: to take a picture with a video clip.Th is mode disables the photo burst function.
Set Clock	To set camera's clock. The clock format is YY/MM/DD hour: minute: second. Press▲▼to set time.Press◀▶to select date or time filed.
Photo Size	Choose the image size, e.g. 14MP , 10MP , 5MP or 12MP, 8MP, 5MP or 25M, 14M, 8M.
Photo Burst	Choose the continuous shooting numbers after each triggering.
Object distance /Distance	Means the camera supports two focus capture: Far: means the camera focuses at 0.8m to 1.5m/ 3.3m(SG2060 series) Near: means the camera focuses at 0.4m to 0.8m /0.8m(SG2060 series) Available for SG560/SG562-BW/SG860U/SG2060 series
Video Size	Choose the video size,e.g. 1280x720 or 640x48

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	0.
Video Length	Choose duration of recording video. This parameter is effective and can be adjusted only when the device in the video mode under ON mode. Press ▲ ▼ to decrease or increase the value.e.g.Its value extends from 5 to 60 seconds .
Time Lapse	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 disabled. Changing this parameter to a non-zero value turns on the Time Lapse mode, and camera will take photos at given time interval. Available for SG560K/SG562-C/SG562-BW/SG860C/SG860U/SG2060 series/SG562-D. NOTE: If the PIR Trigger is set to Off, then the Time Lapse can't be set to Off.
PIR Trigger /PIR Sensitive	This parameter defines the sensitivity of the PIR High: indicates that the Camera is more easily be triggered by motion, taking more pictures or recording more videos. It is recommended to use high sensitivity degree in room or environment with little interference. Normal: The default value is normal. Low: means the camera is not easily be triggered

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	<p>by motion to capture pictures or videos. It is recommended to use in outdoor or environment with lots of interference like hot wind, smoke, near window etc.</p> <p>Off: means the camera is not triggered by motions to capture pictures or videos.</p> <p>Furthermore, the sensitivity of the PIR is strongly related to the temperature. Higher temperature leads to lower sensitivity. Therefore it is suggested to set a higher sensitivity for high temperature environment.</p>
Illumination	<p>Choose the illumination distance. The optional parameters are ShortRange and LongRange.</p> <p>Available for SG562-D</p>
PIR Interval	<p>This parameter indicates how long the PIR will be disabled after each triggering in ON mode. During this time the PIR of the device will not react to the motion of human (or animals). The minimum interval is 0 second, it means the PIR works all the time. The maximum interval is 1 hour.</p> <p>It means the PIR will be disabled for 1 hour after each triggering. Press ▼ or ▲ to decrease or increase the value.</p>
Work Hour	<p>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</p>

3 Advanced Operation

	<p>value ranges from 00:00 to 23:59.</p> <p>The default set is Off which means the camera works all along. Timer switch On means the camera works only during the time according to the preset settings.</p> <p>Available for SG2060 series</p>
Camera Position	<p>It means camera position. You can set A~Z position for your camera, so that you can distinguish which photo is taken by which camera.</p>
Time Stamp	<p>It defines whether the date and time should be stamped on the picture or not.</p> <p>Available for SG560X</p>
Time Switch	<p>It defines a certain time in a day when the camera can be trigger.</p> <p>Off:means the camera works all along. Set from 00:00 to 23:59:means the camera works only during the time according to the preset settings.</p> <p>Available for SG560X</p>
Language	<p>Choose the menu language you need.</p> <p>Available for SG560series/SG562-C/SG862C/SG860U/SG2060 series</p>
Beep Sound	<p>Enable or disable the beep sound.</p> <p>Available for SG2060 series</p>
Game call	<p>It means the camera can play audio file at preset time .The audio file must be saved in the direct</p>

3 Advanced Operation

	<p>ory of \DCIM\100BMCIM\with a name of AUD Ixxxx (from 0000~9999).wav after format the SD card and setting the game call as on mode.</p> <p>Available for SG562-BW/SG2060 series</p>
Recycle Storage	<p>This parameter means new picture or video will cover the initial ones when SD card is full so that you need not take the camera back and delete the images and videos.</p> <p>Available for SG562-BW/SG560K/SG2060 series/SG562-D.</p>
Format SD	<p>All images and videos in the SD card will be deleted, so make sure that you have made a backup of important data.</p>
Version	<p>This parameter shows the information about software version and camera model.</p> <p>Available for SG560K/SG562-BW/SG562-C/SG862C/SG860U/SG2060 serie/SG562-D</p>
Default Set	<p>Restore all customer settings to default values.</p>

3.4 Default Set

Choose Default Set, all the settings will be changed to the factory settings. The following table shows the default parameter for the setting items. Just like 3.3 Setting items, the COMMENT column lists camera models who offer the setting items or appear differently with other models. For example, Object distance/Distance is only available for SG5

3 Advanced Operation

62-BW,SG860U,SG2060 series.Like video length, SG2060 series varies from 5~180s,while others vary from 5~60s.

Default Setting Parameters			
Setting Items	Default	Options	Comment
Camera Mode	Photo	Video, Pic+Video	
Set Clock	Enter		
Photo Size	14MP	5MP, 20MP	Default parameter is always max values.SG2060 series are 25MP,14MP,8MP,SG562-BW are 12MP,8MP,5MP
Photo Burst	1 Photo	2~3 Photos	
Object Distance/Distance	Far	Near	Available for SG562-BW,SG860U,SG2060 series
Video Size	1280x720	640x480	Default parameter is always max values.SG2060 series are 1920x1080/1280x720.
Video Length	10 Sec.	5~60Sec	SG2060 series is 5~180s

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Time Lapse	OFF	5 Min~8 H	Available for SG560K,SG562-BW,SG862C,SG2060 series,SG562-D.
PIR Trigger /PIR sensitivity	Normal	High, Low, Off	Off option is only available for SG562-C,SG862C,SG860U,SG2060 series
Illumination	Long Range	Short Range	Available for SG562-D
Work hour	Off	On	Available for SG2060 series
PIR Interval	5 Sec	0s~60 Min	
Time Stamp	On	Off	Available for SG560X
Time Switch	On	Off	Available for SG560X
Camera Position	Off	A to Z Position	
Language	English	Deutsch Suomi Svenska	Available for SG560K,SG560X,SG562-C,SG862C,SG860U. SG2060 series' optional language are English,Swedish,Deutsch,Svenskt,Dansk,Norsk,čeština,P

3 Advanced Operation

			у с с к и й ,Italiano
Beep sound	On	Off	Available for SG2060 series
Recycle Storage	On	Off	Available for SG560K,SG562-BW,SG2060 series,SG562-C,SG562-D
Game Call	On	Off	Available for SG562-BW,SG2060 series
Format SD	Enter		
Version	Enter		Available for SG560K,SG562-BW,SG562-C,SG862C,SG860U,SG2060 series
Default Set	Save		

APPENDIX

Mounting The Camera

When mounting a camera to a tree, use either the mounting bracket or the strap provided.

Tips: Try not to mount the camera facing the rising or setting sun. If mounting to a feeder or in a dusty environment, be sure to clean the camera lens and PIR sensor regularly. Periodically check the mounting of the camera to make sure it hasn't come loose.

Trouble Shooting

Q1: 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 be reset and cover the lens. Only when the camera is powered off, the IR-Cut will be at a random place.



IR-Cut filter

Q2: The camera controller is not working anymore.

A: Most likely, no SD card has been inserted in the camera when it is turned on. Please make sure a working SD card has been inserted in the camera before it is turned on.

Q3: The display screen is suddenly black.

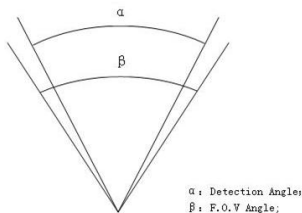
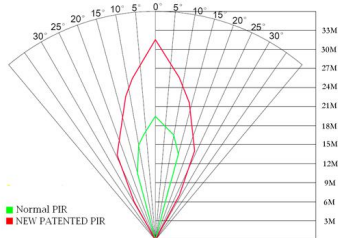
A: To reduce power consumption, the camera will shut down automatically after 3 minutes if no operation is done. Please turn on the power again if you want to continue to work with the control.

Glossary

1. PIR: Passive Infrared motion sensor
2. FOV: Field of view

PIR Detection Zone

The BOLY's trail cameras have a patented new design of PIR. The PIR's detection range can reach to 100ft (in good environments). 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 picture rate and capture most, if not all, motions.



Detection angle vs. FOV angle

APPENDIX

Technical Specifications

Items	SG560K/X SG562-C	SG562-B W	SG860-C	SG860U	SG2060 Series	SG562-D	
Image Sensor	5MP Color CMOS				14MP	5MP	
Lens	F/NO=2.4	F/NO=3.1	F/NO=2.2	F/NO=3.1	F/NO=2.4	F/NO=2.4	
	FOV =57°	FOV =52°	FOV =60°	FOV =52°	FOV =57°	FOV=55°	
Detection Range	100ft	85ft	85ft	100ft	100ft	100ft	
Illumination	/	/	/	85ft	/	90ft	
DisplayScreen	2" LCD	2" LCD	2" LCD	2" LCD	2" LCD	2" LCD	
Memory Card	8 MB~32 GB						
Picture Resolution	5MP/10M P/14MP			5MP/8MP/12MP		8MP/14M P/25MP	5MP/10M P/14MP
Video Resolution	720P/VGA				1080P/72 0P	720P/VG A	
PIR Sensitivity	High,Normal,Low						
Trigger Time	1.2 sec.			<1.2 sec.			
Weight	0.25 kg*			0.26 kg*	0.25 kg*		
Operation/Storage Temperature	-20~+60°C / -30~ +70°C						
Photo Burst	1~3						
Video Length	5~60 sec				5~180 sec	5~60 sec	
Power Supply	8xAA or 4xAA						
Sound Recording	/	Available	/		Available	Available	
Mounting	Rope / Belt / Python lock						
Dimensions	140x80x50 mm						
OperationHumidity	5 %~ 90 %						
Security Authentication	FCC, CE, RoHS						

*without battery

Parts List

Part Name	Quantity
Digital Camera	one
USB Cable	one
Belt	one
User's Manual	one
Antenna	one

For more detail about our product or user manual, check out our website at <http://www.bolyguard.com/download.html>



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