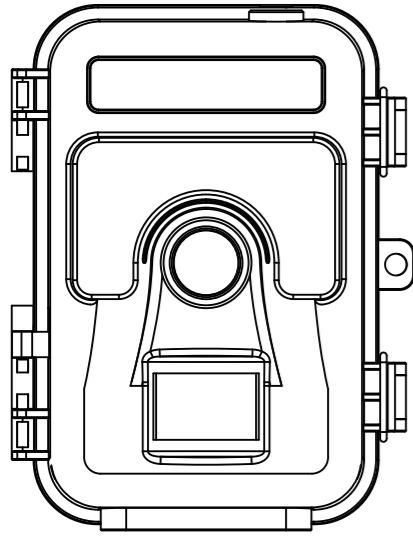


Knock Off Observation Camera (KNOC00077)



USER MANUAL

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1. GENERAL INFORMATION

1.1. Introduction

The Observation Camera is a scouting device. It can be triggered by sudden change of ambient temperature caused by any movement of human (or animals) in a certain region of interest (ROI), which is detected by a high sensitive Passive Infra-Red (PIR) sensor, and then captures high quality pictures or records HD video clips automatically. The camera can achieve more applications through Timer, Interval and other function settings.

Main Features:

- 1) 90 degree camera lens.
- 2) Optional 1/3/5/8/12/16 Mega-pixel high-quality resolution.
- 3) The trigger time can be set up to 0.6 second.
- 4) Build-in 2.36" TFT colour screen to review photos and videos.
- 5) Support TF Card up to 32GB.
- 6) Waterproof IP66.
- 7) Performs in the most extreme temperatures from -30°C to 70°C.
- 8) 38pcs IR LEDs.
- 9) Date, time, temperature and moon phase can be stamped in the picture.
- 10) In "Camera + Video" Mode, camera takes both pictures and video at every trigger event.
- 11) In Time lapse setting, the camera automatically and constantly takes pictures/videos at specified interval. It's very useful when observing plants flowering, birds building nests, or when monitoring unattended properties such as parking lots/yards. This feature can be used together with Timer feature to meet your

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timetable.

12) Auto power-off function switches the camera off automatically after 10 minutes when not in use.

13) Extremely long in-field battery life (in standby mode, up to 6 months with 8*AA batteries).

14) Serial Number function enables you to code locations in the photos. This helps multi-camera users identify the location when reviewing the photos.

15) Lockable and password protected.

16) Colour pictures at daytime, monochrome pictures at night, switched automatically.

1.2. Application

- For wildlife observing and researching, captures pictures and videos of wild animals.
- As sports camera, for riding, driving, camping or exploring.
- As Motion-Triggered security camera, for home, office and community.
- All other indoor and outdoor surveillance where invasion evidence needed.

1.3. Illustration

- Figure 1-1 shows the front view of the camera
- Figure 1-2 shows the bottom and the side view of the camera
- Figure 1-3 shows the back view of the camera
- Figure 1-4 shows the inside view of the camera

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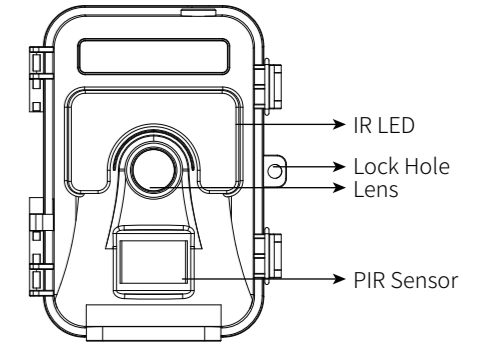


Figure 1-1: Front View

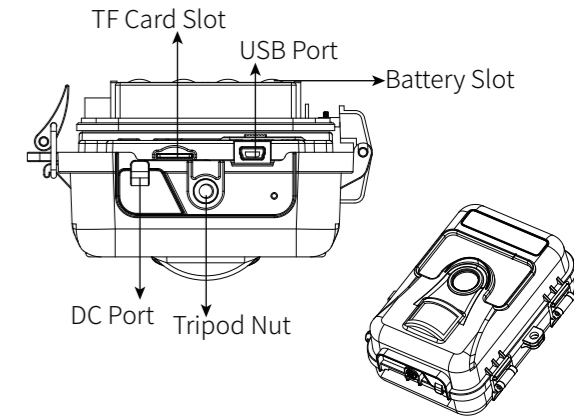


Figure 1-2: Bottom and Side View

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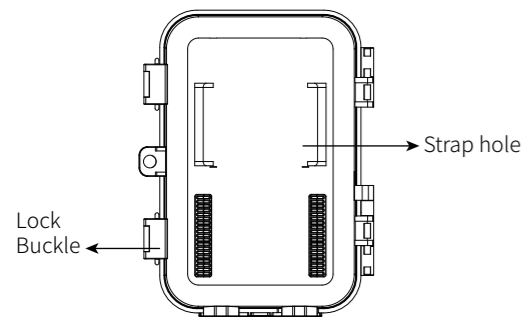


Figure 1-3: Back View

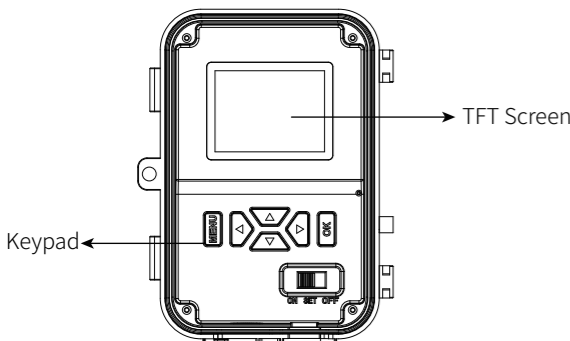


Figure 1-4: Inside View

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Note:

1) The camera provides the following connections for external devices: USB port, TF card slot, and external DC power in jack. The 3-way Power/Mode Switch is used to select the main operation modes: **OFF**, **ON** and **SET**.

2) LED lights Indicator: red light for PIR monitoring; green light for taking photos or videos.

2. QUICK START

2.1. Batteries

To supply power, it is recommended to use 4x AA or 8x AA high-performance alkaline batteries. Make sure the polarity matches the sign on the cover.

If you are not using the camera for an extended period of time, please remove batteries from the camera to avoid possible acid leak that may damage the camera.

Alternatively the camera can run on external (6V/2A) DC power supply, solar power supply etc.

On "SET" mode when battery power level gets low, the message "Low Battery" will show on TFT screen.

2.2. Insert TF Card

The camera does not come with internal memory. So it will not work without a TF memory card. Before inserting the TF card into the card slot, The supported memory capacity is up to 32GB. If you use a card capable of above 32GB, make sure you test it before putting the camera in use.

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2.3. Enter "SET" Mode

Switch to the "SET" position to enter the Set mode. In this mode you can take pictures or video clips like a regular digital camera, or enter the Menu to set up parameters. On the keypad there are four "shortcut" function keys (see Figure 2-1) working as below:

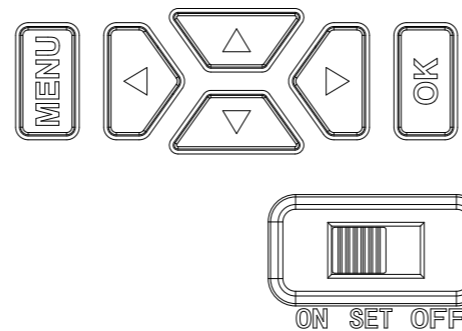


Figure 2-1: Keypad View

- Press the "UP" key to set the camera to shoot video clips.
- Press the "DOWN" key to set the camera to take pictures.

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- Press the "RIGHT" key to manually trigger the shutter. a photo or video (depending on the camera setting) will be taken and saved to the TF card.

- Press the "OK" key to review/playback photos/video on the LCD screen. Use "UP" and "DOWN" key to navigate.

- Press the "MENU" key to set up photos and video when reviewing photos/ videos. You can **Delete one/ Delete All/Slide Show/Protect** the photos and videos you want.

2.4. Enter Live Mode

Switch to the **ON** position to enter the live mode. The Motion Indicator will flash green for about 15 seconds and the camera starts working by itself without any manual handling. It will at once shoot pictures or record videos when game or other objects enter the PIR area of the sensor. If the game roams away after entering the PIR area of the sensor, the camera will power off and enter standby mode.

Press "RIGHT" key can enter live mode quickly when switch is at the "ON" position.

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Note:

In general, you are recommended to place the camera 3 to 6 feet (1 to 2 meters) above the ground.

To avoid potential false triggers due to temperature and motion disturbances, please do not aim the camera at a heat source (i.e the sun) or nearby tree branches and limbs. The ideal direction to aim at is North or South. Also, remove any limbs close to the front of the camera.

3. ADVANCED SETTINGS

The trail camera comes with preset manufacturer settings. You can change the settings to meet your requirements. Please make sure that the camera is in the SET mode.

3.1. Parameter settings

Press "MENU" key to enter/exit the menu. Press "UP/DOWN" key to move the marker, Press "LEFT/RIGHT" key to change the setting, and press "OK" key to confirm the change. Always remember to press "OK" to save the change. Otherwise you will lose your new setting.

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Parameter	Settings (Bold=default)	Description
Mode	Camera Video Cam+Video	Select whether still photos or video clips are taken. In Cam+Video mode, can first take photos and then shoot videos afterward.
Language	Enter	English/Chinese/French/Norwegian/Deutsch/Spanish/Portuguese/Japanese/Russian/Finnish/Italian/Czech/Romanian/Svenska/slovak
Photo Size	16MP 12MP 8MP 5MP 3MP 1MP	Select desired resolution for still photos from 1 to 16 mega pixels. Higher resolution produces better quality photos, but creates larger files that take more of the TF card capacity. Besides, larger files require more time to be written to the TF card, which will slightly slow the shutter speed.
Video Size	1920x1080 1280x720 720x480 640x480 320x240	Select video resolution (pixels per frame). Higher resolution produces better quality videos, but creates larger files that take more of the TF card capacity.
Photo No.	01 Photo. 02 Photo. 03 Photo.	Select the number of photos taken in sequence per trigger in Camera mode. <i>Please also refer to the Interval parameter.</i>

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Video Length	AVI 5s, optional from 3s to 30s	Videos are in AVI format that can be played back on most video players.
Interval	1 Min , optional from 5s to 60min	Select the shortest length of time that the camera will wait until it responds to any subsequent triggers from the PIR sensor after a game is first detected. During the selected interval, the camera will not take pictures/videos. This prevents the TF card from filling up with too many redundant images.
Sense Level	Normal , High, Low	Select the sensitivity of the PIR sensor. The High setting suits indoors and environments with little interference, while the Normal/Low suits outdoors and environments with more interference. Temperature also affects the sensitivity. The High setting is suitable when the ambient temperature is warm, and the Low setting is helpful in cold weather.
Set Date/Time	Enter	Press Enter to set up date and time.
Date Stamp	Off Date Date/Time	Select Date/Time if you want the date & time imprinted in every photo. Select Date if you want the date imprinted in every photo.

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		Select Off to stop the date & time imprinted.
Timer	on off	Select On if you only want the camera to work within a specified time period every day. For instance, if the starting time is set at 18:35 and the ending time at 8:25, the camera will function from 18:35 the current day to 8:25 the next day. Outside the set time period the camera will not be triggered or take photos/videos.
Time Lapse	on off	If set On , the camera will automatically take photos/videos according to the set interval, regardless of whether the PIR sensor has detected any game. This is helpful when observing cold-blooded animals like snakes, or the process of flowering, etc.
Password Set	on off	Set up a password to protect your camera from unauthorized users.
Serial No.	on off	Select On to assign a serial number to each camera you have. You can use the combination of 4 digits to record the location in the photos (e.g. 1234 for Yellow Stone Park). This helps multi-camera users identify the location when reviewing the photos.

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Audio	on off	The default setting is On, when it is on, the camera will record sound, otherwise, the video will be silent.
TF Card Storage	Stop saving when full Cycle storage	Select the loop mode to overwrite the previous file to continue working when the TF card is full.
Format	Yes No	All files will be deleted after formatting the TF card, Highly recommend you format the TF card if it has been used previously in other devices. Caution: make sure wanted files on the TF card have been backed up first!
Default Setting	Yes No	Press OK Enter to return all your previous settings back to the manufacturer defaults.
Version	Enter	Look through the version of the camera.

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4. WARRANTY

We take great pride in our products. We always stand behind our promises. We provide a leading warranty term and service. Buying our product, you are covered under a limited warranty.

We guarantee our products to be free of defects in materials and workmanship for a limited warranty of the original purchase date. This warranty does not cover consumer caused damage such as misuse, abuse, improper handling or installation, or repairs attempted by someone other than our authorized technicians.

We will, at our option during the warranty period, repair your camera or replace it with the same or comparable model free of charge. This warranty only extends to the original retail buyer from our authorized dealer. Purchase is required to receive warranty benefits. The warranty on any replacement product provided under the original warranty shall be for the remaining portion of the warranty period applicable to the original product.

This warranty extends solely to failures due to defects in materials or workmanship under normal use. It does not cover normal wear of the product.

If you need to return a product under this warranty, please contact your dealer or our distributor.

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5. Appendix I: TECHNICAL SPECIFICATION

Model	Parameters
Image Sensor	3 Mega Pixels Color CMOS
Max. Image Size	4608 x 3456
Lens	F=1.8; FOV=90°; Auto IR-Cut
IR Flash	940nm IR LED
LCD Screen	2.36 inch TFT color screen
Keypad	6 Keys, 1 Switch
Memory	TF Card (8MB-32GB)
Picture Size	16MP; 12MP; 8MP; 5MP; 3MP; 1MP
Video Size	1920x 1080: 30fps; 1280 x720: 30fps; 720 x 480: 30fps; 640 x 480: 30fps; 320 x 240: 30fps;
PIR Sensitivity	High/Normal/Low
PIR Sensing Distance	65ft/20m (Below 77°F/25°C at the Normal Level)
PIR Sensing Angle	60°
Operation Mode	Day/Night
Trigger Time	0.6 Second (When using the 2GB TF card)
Trigger Interval	5sec - 60 min

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Shooting Numbers	1-3
Video Length	3-30sec
Camera+ Video	First take Picture then Video
Playback Zoom In	1-8 Times
Time Stamp	On/ Off
Time	ON/Off; Timer Set
Password	4-Digit Numbers
Device Serial No.	4-Digit Numbers
Time Lapse	1 Second-24 Hours
Audio	On/Off
Language	English/ Chinese/ French/ Norwegian/ Deutsch/ SPanish/ Portuguese/ Japanese/ Russian/ Finnish/ Italian/ Czech/ Romanian/ Svenska/Slovak
Power Supply	4x AA; Expandable to 8x AA
Stand-by current	< 0.1mA
Stand-by Time	4-8 Months (4xAA-8xAA)
Auto Power Off	Auto power-off function switches the camera off automatically after 10 minutes when not in use.

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Power Consumption	150mA (+800mA when IR LED lights up); at 6V DC
Low Battery Alarm	4.5V
Interface	USB; TF Card Slot; 6V DC External
Mounting	Strap; Tripod Nail
Waterproof	IP66
Operation Temperature	-22~+158°F/-30~+70°C
Operation Humidity	5% ~ 95%
Certificate	FCC & CE & RoHS

6. Appendix II: PACKAGE CONTENTS

Part Name	Quantity
Digital camera	1
USB cable	1
Camera belt	1
User manual	1

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7. Appendix III: FAQ

Question	Answer
Forgot Password /Factory Reset	Press the “MENU” + “OK” key and hold, then turn it on, toggle the switch to SET position, turn it off. The camera is restored to the factory settings, all previous parameter settings made including password will be cleared. Please use with caution.
Night video is unavailable in low voltage	When the camera is turned on, there is the “Night video is unavailable in low voltage” prompt, indicating that the voltage has been low. When the battery voltage is less than 4.5V, the infrared light cannot be opened, at night, the camera cannot take pictures and video. The infrared LED power consumption is very large. Under normal circumstances, it is recommended to set the recording time to be shorter or when necessary, during the day, the camera does not need to turn on the infrared light, still can record the video properly.