

Instruction Manual Scouting Trail Camera



MODEL: BIG EYE D3N

- 4K HD Video
- Time-lapse Video
- 0.2 Seconds Trigger Time
- Support SD Card up to 256GB
- 82 Feet PIR distance & IR range

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1 Quick Start Guide

1.1 Introduction

Big Eye D3N wildlife camera is an infrared detection device. It can be triggered by sudden change of ambient temperature caused by moving game in a region of interest, which is detected by a highly sensitive passive Infra-Red (PIR) sensor, and then take pictures or video clips automatically.

1.2 Application

- For hunting enthusiasts to detect animals and their infestation areas.
- For Ecological photography enthusiasts, wild animal protection volunteers, etc. to get outdoor shooting images.
- Observation of the growth and change of wild animals/plants.
- Observing wild animals/plants growth process.
- Install indoors or outdoors to monitor homes, supermarkets, construction sites, warehouses, communities and other places.
- Forestry units and forest police use to monitor and collect evidence, such as poaching and hunting.
- Other evidence-taking works.



Warning:

Please read the user guide carefully before using this product to avoid unnecessary loss!

Do not attempt to disassemble the camera, non-product quality problems and man-made damages will not be covered under warranty!


1.3 Battery

This product can be powered by AA batteries or an external power adapter.

A. Battery-powered


Please use high-quality alkaline batteries, nickel-metal hydride

batteries or rechargeable batteries. The camera supports two groups of battery-powered, each group of four batteries, it's better to use 8 batteries for improving performance.

 *Note: The battery should be purchased by users. 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.*


B. External power supply

This product supports 6V / 2A DC power adapter, solar power and so on.

 *Note: When the battery is low, in the "TEST" mode, the display shows a low battery prompt (the battery icon in the lower right corner is empty and "low battery" appears in the center of the screen).*

1.4 SD Card

The camera uses SD card to store images, the maximum capacity can support 256GB. To ensure optimum performance of the camera, use an SD card with a speed of 10x or higher. Please do not remove the SD memory card, battery, and plug the power when the camera is turned on!

 *Note: Before inserting an SD memory card, it is recommended to format the SD card, turn off the SD card lock protection, and insert the SD memory card correctly by the logo.*

The following table lists the different capacity of the SD card can shoot the number of pictures and video length (the value is for reference only), users can choose to purchase the appropriate capacity of the SD card.

Number of images stored in different capacity SD cards							
	2GB	8GB	16GB	32GB	64GB	128GB	256GB
Number of photos (sheets)							
1MP	5334	21356	43204	85718	171435	342871	685741
3MP	2083	8343	16878	33482	66965	133929	267858

5MP	1301	5208	10537	20905	41811	83622	167244
8MP	820	3274	6645	13167	26335	52669	105339
12MP	546	2186	4424	8775	17550	35101	70202
16MP	411	1647	3333	6609	13219	26438	52875
Video Length (hours)							
VGA	0:23:53	1:36:29	3:13:27	6:24:59	12:49:57	25:39:55	51:19:49
WVGA	0:17:46	1:11:50	2:24:00	4:28:42	8:57:24	17:54:49	35:49:37
720P*60	0:05:10	0:20:55	0:41:57	1:23:24	2:46:49	5:33:38	11:07:16
720P	0:13:20	0:53:52	1:48:00	3:34:55	7:09:51	14:19:42	28:39:25
1080P	0:08:00	0:32:19	1:04:48	2:08:57	4:17:54	8:35:48	17:11:37
4K	0:03:33	0:14:22	0:28:48	0:57:17	1:54:34	3:49:09	7:38:18
10 seconds video number (segment)							
VGA	144	577	1155	2310	4620	9239	18479
WVGA	101	403	806	1612	3224	6449	12898
720P*60	31	125	250	500	1001	2002	4004
720P	81	322	645	1290	2579	5158	10317
1080P	48	193	387	774	1547	3095	6190
4K	21	86	172	344	687	1375	2750


1.5 USB Function

This product can be connected via USB to a computer or TV.

The camera is connected to the USB port of the computer via the USB data cable, turn the switch to “TEST” then "MSDC" will be displayed on the screen, and the operation keys are disabled.

Find the removable disk from "My Computer", then users can do write operations to SD card via computer.

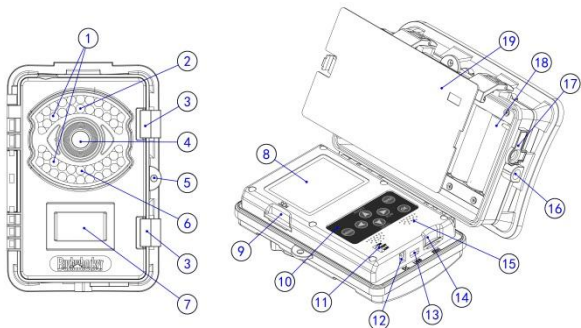
The camera is connected to the RCA of the TV via the TV cable and the camera function switch to the "TEST" test preview mode. Select "REPLAY" to view the image file in the camera.

 *Note: After connecting the TV, the camera display automatically turns off!*

1.6 Attention

- On "TEST" mode, camera will be auto power off while no keypad controlling. Please switch to "TEST" mode again if you want to continue to use.
- Please keep power on during upgrade process, after upgrade finished, it needs to keep at least 5 seconds before you can shut down or cut off power, otherwise it may cause upgrade failure.
- When install camera please make sure there are no moving objects in 3m area in front of lens such as branches, leaves, weeds, strings, color ribbon and other objects which may flutter in the wind to avoid potential false triggers.
- Please do not aim the camera at a heat source such as boiler, exhaust vents and light, etc. Avoid mistaking photos or videos and shortening stand-by time.
- Please do not use the voltage and current does not meet or exceed the requirements of the product of the external power supply, so as not to cause damage to the camera.
- The battery inside the camera keeps the clock, the date and time settings will remain until the battery runs out. After the battery is disabled, the date and time settings will be reset to the factory settings after power failure, and need to be reset after each power.

2 Camera Overview



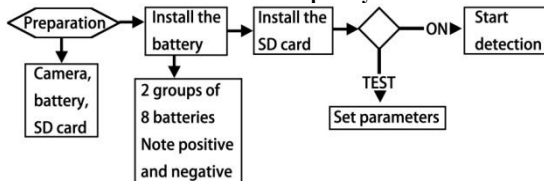
①	IR LED	⑧	TFT Screen	⑮	Speaker
②	Indicator Light	⑨	SD Card Slot	⑯	Tripod Nut
③	Lock Buckle	⑩	Keypad	⑰	Waterproof Plug
④	Lens	⑪	Power/Mode Switch	⑱	Battery Slot
⑤	Lock Hole	⑫	DC Port	⑲	Battery Cover
⑥		⑬	USB/TV Cable Port		
⑦	PIR Sensor	⑭	SIM Card Slot (unavailable for this model)		

3 Quickly Use the Camera

Switch:

1. Turn the switch to "ON" then camera enters working mode (before in working mode the indicator will flash red and blue lights 15 times, display then appears countdown, in normal working mode the display will be closed.)
2. Switch to TEST, the camera into the test mode, users can set parameters manually, take pictures or video, playback photos and video.
3. Switch to OFF, the camera stops working.

3.1 How to start the camera quickly



4 Menu Function Table

Press "MENU" key to enter the menu, press ▲, ▼ key to move the cursor to select various function options, "OK" key to confirm. Press "REPLAY" to enter playback mode. Press the "EXIT" key to return to the previous menu or exit the menu.

The bold text in the table is the default.

Parameters	Set options (Bold=Factory default)	Function Description
Set Up		
Mode	Photo/Video/ Photo+Video/ Time Lapse Video	
Photo Resolution	1MP/3MP/5MP/ 8MP /12MP/16MP	
Photo Series	1 /2/3/6	
Video Resolution	640*480P/720*480P/1280*720P/1280*720P 60FPS/ 1920*1080P /2688*1520 20FPS	
Time-lapse Video Resolution	2592×1944P /2048×1536P	
Video Length	5s~59s, 1/2/3/4/5/6/7/8/9/10 minutes, 10s	
Audio Recording	Off/ On	
PIR Interval	5~59 seconds 1~60minutes, 10s	
PIR Level	Low/ Normal /High	
Target Recording Time 1	Off /On	
Target Recording Time 2	Off /On	
Time Lapse	Off / 3 seconds to 23 hours 59 minutes 59 seconds	
Language	English and so on	
Endless Capture	On/ Off	
Time&Date	Y/M/D , D/M/Y, M/D/Y. 24 /12 Hour Clock	

Photo Stamp	Time&Date / Date / Off / No Logo
Password Protection	Off/On 0000
Beep Sound	Off/On
Format Memory Card	Yes/ No
Serial No.	Off/On
Longitude&Latitude	Off/On
Simple Menu	Off/On
Reset Settings	Yes/ No
Version	D3N-01-12025
Playback	
Delete Current File	Cancel / Delete
Delete All Images	Cancel / Delete
Slide Show	
Write Protect	Write-protect current file /Write-protect all files/ Unlock current file/Unlock all files

5 Main Features and Parameters

5.1 Main Features

- 1) Photo Size: 1MP/3MP/5MP/8MP/12MP/16MP
- 2) HD Video: 4K UHD/20FPS,1080P@30FPS
- 3) High-speed photography: 720P@60FPS
- 4) In "Camera + Video" Mode, camera takes both pictures and video at every trigger event.
- 5) Time-lapse Video: The camera is programmable to take pictures at predefined intervals and generates video files automatically, ideal for observing plant growth, flowering, bird nesting, starry sky changes, housing construction, etc.
- 6) 42pcs IR LEDs, 850nm and 940nm for selection.
- 7) 0.2s Trigger Time.
- 8) Built-in 2.4" TFT color screen.
- 9) Locking important image to avoid being deleted.
- 10) Take multiple consecutive pictures up to 6 photos.
- 11) When timer setting is turned on, camera only works in specified period every day.
- 12) PIR sleep setting can avoid the camera shoot the same object multiple times.
- 13) In Interval setting, the camera automatically and constantly takes pictures / videos at specified interval. This function suits for unattended places, such as parking lot, courtyard etc.
- 14) Date, time, temperature, moon phase and photo id can be stamped in the pictures.
- 15) 7 operation buttons.
- 16) Support SD card up to 256GB.
- 17) Extremely long in-field battery life (in standby mode, up to 1 year with 8*AA batteries)
- 18) Alarm light flashing when battery power level goes low.
- 19) Playbacks zoom in 1-8 times.
- 20) Auto play in "Slide Show".
- 21) Device Number will be showed on image file name, this helps users identify which camera captured the image when review it.
- 22) Longitude&Latitude can be manual input and show on the image attributes.

- 23) Lockable and password protected.
- 24) Color pictures at daytime, monochrome pictures at night, switched automatically.
- 25) Serration design make camera easy to fix firmly.
- 26) Battery cover to prevent erosion from battery leakage which may damage the camera.
- 27) Nine-rectangle-grid mode and auto play to view images.
- 28) Supports loop recording. When the SD card is full, the recording will overwrite the oldest file.
- 29) Enter latitude and longitude to record coordinate information.
- 30) With simple menu function, only the main commonly used setting menu is displayed.

5.2 Technical Parameters

Item	Parameters
Work Mode	Camera Video Camera+Video Time-lapse Video
Image Resolution	1MP: 1280×960 3MP: 2048×1536 5MP: 2592×1944 8MP: 3264×2488 12MP: 4000×3000 16MP: 4608×3456
Video Resolution	WVGA: 640x480@30fps VGA: 720x480@30fps 720P: 1280x720@60fps, high-speed photography 720P: 1280x720@30fps 1080P: 1920x1080@30fps 4K: 2688x1520@20fps
Time-lapse Video Resolution	2592×1944 2048×1536
Operation Mode	Day/Night, Switch automatically
Lens	FOV = 50°, F=2.5, Auto IR-Cut

IR Flash	82 Feet/25 Meters
IR Setting	42 LEDs; 850nm or 940nm
LCD Screen	2.4" TFT Color Display
Operation Keypad	7 buttons
Beep Sounds	On/Off
Memory	SD Card(\leq 256GB)
PIR Level	High/Normal/Low
PIR Sensing Distance	82 Feet/25 Meters
PIR Sensor Angle	50°
Trigger Time	0.2 Seconds(as fast as 0.15s)
PIR Sleep	5 Seconds~60 Minutes, Programmable
Loop Recording	On/Off, when the SD card is full, the earliest file will be automatically overwritten
Shooting Numbers	1/2/3/6 Photos
Write Protection	Lock partial or all photos to avoid being deleted; Unlock
Video Length	5 Seconds~10 Minutes, Programmable
Camera + Video	First take Picture then Video
Playback Zoom	1~8 Times
Slide Show	Yes
Stamp	Options: Time & Date/Date/Off /No LOGO Display content: Logo, Temperature, Moon Phase, Time and Date, Photo ID
Timer	On/Off, 2 time periods can be set
Interval	3 Seconds~24 Hours
Password	4 Digit or Alphabets
Device No.	4 Digit or Alphabets
Longitude&Latitude	N/S: 00°00'00";E/W: 000°00'00"
Simple Menu	On/Off
Power Supply	4×AA, Expandable to 8×AA

External DC Power Supply	6V/2A
Stand-by Current	200 μ A
Stand-by Time	One Year(8 \times AA)
Power Consumption	260mA (+790mA when IR LED lights up)
Low Battery Alarm	4.15V
Interface	TV-out/ USB, SD card slot, 6V DC External
Mounting	Strap; Tripod Nail
Waterproof	IP66
Work Temperature	-22 \sim +158 $^{\circ}$ F/-30 \sim +70 $^{\circ}$ C
Work Humidity	5% \sim 95%
Certification	FCC& CE & ROHS
Dimensions	148 \times 99 \times 78(mm)
Weight	320g

6 Others

6.1 Replay

With “REPLAY” button and other buttons can review/play/delete photos and videos in SD card; photos can be zoomed in/out/move; lock/unlock photos; slide show, etc.

Image Review:

After press “REPLAY” button through ◀/▶ to review photos/videos in SD card.

Zoom/Move Images:

- When review photos, after pressing “ZOOM” button through ▲/▼ can zoom in/out photos. When zoom out photos to minimum size, photos will show in nine-rectangle-grid mode.
- When zoom in photo, after pressing “MOVE” button through ▲/▼/◀/▶ to check different parts of the photo.
- Continue pressing “ZOOM/MOVE” button can switch between “ZOOM” and “MOVE”.
- On Nine-rectangle-grid mode, through ▲/▼/◀/▶ to quickly move to selected photos, press “OK” to check the photos.

Play Video:

Press “OK” to play/pause video.

Press ▲/▼ to stop playing video.

Press "EXIT" to exit.

Slide Show

All images are automatically played back by slide show.



 **Note:** When auto play images, the video files will show the first scene only, not play the whole video.

Image Lock/Unlock

If locked, images can't be deleted unless you unlock them.

On “REPLAY” mode, press “MENU” button and choose “Write Protect”, through ◀/▶ can set “Lock Current”, “Unlock Current”, “Lock All”, “Unlock All”.

 **Note:** On “Replay” mode, above functions can return to previous menu by pressing “EXIT”. Quickly exit “Replay” mode by pressing “CAMERA”/ “VIDEO” to take photos or videos.

Automatic shutdown of keyboard without operation

Display will be turned off after 2 minutes when keyboard is not operated, and camera will automatically shut down after 1 minute.

6.2 Details of Partial Functions

6.2.1 Timer

Set camera to work within specified time period every day. Outside the time period the camera will not be triggered or take photos/videos, it supports 2 groups of timer set.

Default set: Off, "00:00——00:00"

For instance: Set camera to work from 8:00 to 10:00 am

On, "08:00——10:00"

6.2.2 Language

System language, users can choose different language version to purchase.

Languages as below:

English, Deutsch, Dansk, Suomi, Svenska, Español, Français, Italiano, Nederlands, Português, Chinese, Japanese, Korean.

Default setting is "English". User can view version number of different language on official website.

6.2.3 Firmware Upgrades

The manufacturer reserves the right to upgrade the camera and the firmware. Users can upgrade firmware through SD card.

Follow the steps below to implement the upgrades:

1. Prepare a formatted SD card.
2. Copy the new version file named "Rom_Code_D3N_v*****-*.bin" into the SD card root directory.
3. Insert the SD card then press and hold the "OK" button while turn switch to the "TEST" position. Release "OK" button when the screen displays the upgrade and flashes; the screen displays a flashing upgrade prompt till the screen goes out.
4. The screen displays red and there is an upgrade text prompt and flashes, indicating that the upgrade is in progress, please do not power off! If the power is off, you need to reinsert the SD card with the upgraded software, re-power on, press and hold the "OK" button, and set the "ON" key to "TEST" position.

5. Restart and check if the new version number is different from the one before upgrade to confirm upgrade process succeed.

6.3 FAQ

6.3.1 When Camera Can't Start Normally

Please do the following checks if camera cannot start or work normally:

- No battery;
- Battery loaded reversely;
- Run out of battery;
- Battery is not in conformity with the specifications;
- Not switch camera to “ON” mode;
- Not insert SD card;
- SD card is full or damaged;
- SD card capacity exceed 256GB;
- Sensitivity of PIR sensor too low.

7 Warranty Policy

We value our customers very highly and would like to ensure that our products and service are always of a top standard. However, if you are experiencing issues with your Camera products, please take a moment to read through the information below to establish whether your products are covered under the warranty.

Warranty statements

1. Within 7 days after the receipt, if product quality problems (function failures caused by non-human damages such as production technology, materials, etc.) are found, customers can apply for a replacement for the unused new machine (customers must send the faulty product back to manufacturer first). The manufacturer will bear all the freight.
2. The warranty is 12 months.
3. During the warranty, the manufacturer will inspect the faulty machine after receiving it. If it is a quality problem, it will be responsible for free maintenance; if it is a non-quality problem such as man-made damage, the cost of the replaced parts will be charged while the maintenance fee will be waived. Both the buyer and the seller bear the shipping cost (the seller bears the shipping cost of returning the product to the buyer).

Disclaimer

Any of the following situations are not covered by the free warranty.

1. Product failure caused by improper installation, incorrect use, improper operation, power failure, battery leakage, natural disasters, environmental reasons and other factors.
2. The product has been disassembled or changed privately, the original serial number and release date label have been altered or torn.
3. Normal abrasion during use.
4. Breakage occurred during use.
5. The product is lost.

6. Exceeding the warranty period.

If the product is not covered by the warranty, the manufacturer provides repair services, and the customer bears all costs incurred in repairs, replacement parts, transportation, and customs duties.

Please keep the warranty card for guarantee to keep in repair.

Please contact the regional distributor for more details.

8 Appendix I: Standard Packing List

Part Name	Quantity
Digital Camera	1
USB Cable	1
TV Cable	1
Strap	1
Manual	1

9 Statements

1. The manufacturer reserves the right to amend the content due to editing or typographical errors, product upgrades and other factors which may causes discrepancies. Amendments will be applied to latest user's manual. These are subject to change without prior notice.
2. The manufacturer takes no responsibility for any illegal usage. Please comply with local laws and regulations.
3. The manufacturer takes no responsibility for user's data loss.
4. The manufacturer takes no responsibility for any losses and casualties resulting from misusing products.