

# **Bushnell®**

## **TRAIL CAMERAS**



### **VERT SD | BONE COLLECTOR**

### **INSTRUCTION MANUAL**

MODEL # 119956C



## **WELCOME**

Welcome to your Bushnell Trail Camera! This manual has all the instructions you need to set up your camera and your account, plus quick answers to your questions.

If your camera does not seem to be functioning properly or if you are having image quality issues, please check the Troubleshooting Tips section.

If your problem continues after trying the solutions in Troubleshooting Tips, please call Bushnell Customer Service at (800) 423-3537. In Canada, call (800) 361-5702.

Note: This Bushnell trail camera model is not designed or intended for operation or sale outside of the United States.

Fig 1

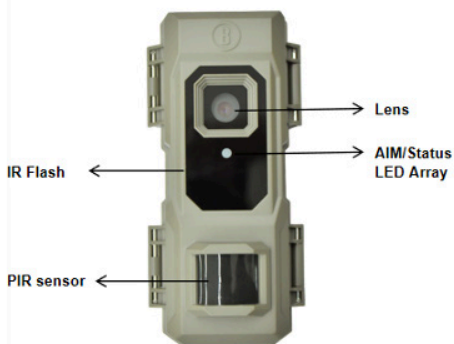


Fig 2

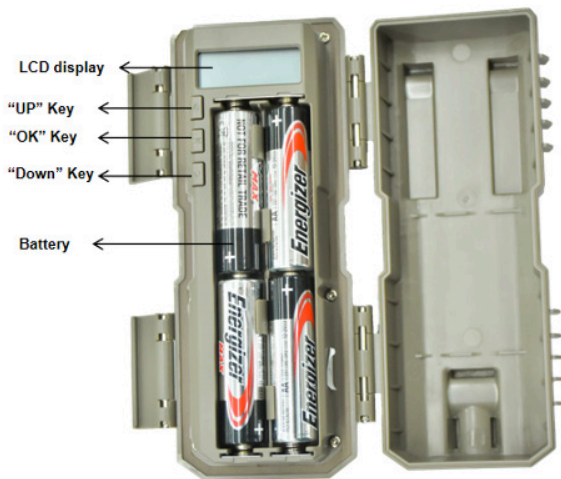


**Fig 3**

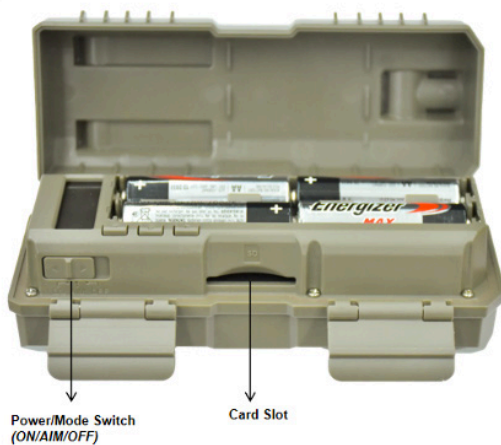
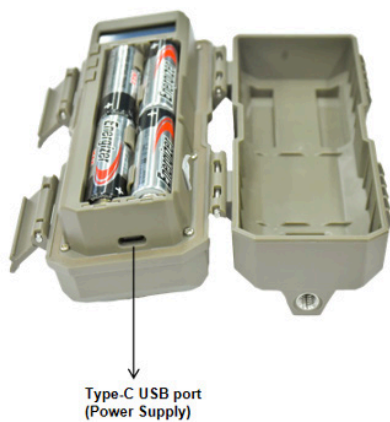


**Fig 4**



## TECHNICAL SPECIFICATIONS

|                              |                                                                         |
|------------------------------|-------------------------------------------------------------------------|
| Model Number                 | 119956C                                                                 |
| Image Resolution -Photo Mode | 32MP                                                                    |
| Lens Angular Field of View   | 50°                                                                     |
| PIR sensor                   | Yes, Auto sensitivity                                                   |
| Trigger speed (Photo)        | 0.7 second                                                              |
| Trigger speed (Video)        | <2 seconds                                                              |
| Interval Time                | 5s, 15s (default), 30s, 60s, 5m                                         |
| Number of IR LED             | 4pcs 850nm high power IR flash<br>(Low glow)                            |
| Video Resolution             | FHD 1080P (1920*1080) @30fps                                            |
| Max IR Flash Range           | 70 feet (850nm)                                                         |
| Storage                      | SD/SDHC Card, up to 32GB Capacity,<br>Class 10 or higher (not included) |
| Status/AIM indicator LED     | Yes                                                                     |
| Video Clip Time              | 10 seconds ea.                                                          |
| File format                  | JPEG (photos)/AVI (videos)                                              |
| Date/Time/ID imprint         | Yes                                                                     |
| Exposure                     | Auto                                                                    |
| White balance                | Auto                                                                    |
| Power Supply                 | 4 AA cell batteries (alkaline or<br>lithium) (not included)             |
| Power Consumption            | <100ma (<800ma w/LED flash)                                             |
| Water resistant              | Yes, rated IP65                                                         |
| Working temperature          | -10°C ~ 50°C                                                            |
| Storage temperature          | -20°C ~ 55°C                                                            |

\*32MP resolution via software interpolation

## **PARTS and CONTROLS**

Release the latch on the right side of the camera and swing the front cover over to the left to access the controls. A 3-way power/mode switch is used to select the main operating modes: OFF, AIM, and ON (Fig.1).

When the power switch is set to the AIM middle position, the camera is in Setup Mode. The AIM position can also be used to verify the area the camera will monitor. The LCD Display will show the camera's current settings in Setup Mode. The Up, Down and OK keys are used to set the date and time [to be imprinted on each photo/video], change the interval or "detection delay" time between images while an animal remains in range of the camera's sensor, select Photo or Video capture mode, set a camera ID number for your reference, and format the SD card [erase all files]. Once you setup the camera, switch it to ON for normal operation.

## **INSTALLING BATTERIES and SD CARD**

Before you begin to use your Bushnell Trail Camera, you will first need to install a set of batteries and insert an SD card. Although that may only take you a minute, there are some important notes about both batteries and SD cards you should be aware of, so please take the time to read the following directions and cautions:

### **Loading Batteries**

Release the latch on the right side of the camera and swing the front cover over to the left. Switch the camera's power OFF when loading/unloading batteries. Be sure to insert each battery so its polarity (+/- direction) matches the polarity indications at the bottom of the battery tray. The camera is capable of operating with 4 batteries installed. Bushnell recommends using four new lithium AA (Energizer\*brand) or alkaline AA batteries. NiMh Rechargeable batteries can also be used, but they might have a shorter life span due to their reduced efficiency over time and at low temperature.

### **Inserting the SD Card**

The Bushnell Trail Camera uses a standard SD (Secure Digital) memory card to save your photos (.jpg format) or videos (.avi format). SD and SDHC (High Capacity) class 4 or higher speed cards, up to a maximum 32GB are supported.

- Make sure that the write-protect switch on the side of the card is "off"(NOT in the "Lock" position). With the power switch in the OFF position, insert the SD card in the slot on the right side of the camera (Fig. 3) until it clicks in place. If the wrong side of the card is facing up, you will not be able to insert it without force-there is only one correct way to insert cards.

- If the SD card is not inserted correctly, or no card is in the slot, “C A r d” will appear on the LCD Display, and the camera will not operate (Fig. 4, next page). Other card status display messages: “F U LL” indicates the card’s memory is full, with no remaining room to store files (see below). “E r r” means there is a card reading error (try a different SD card).
- Formatting the SD card before using it for the first time is recommended, especially when a card has been used in other devices. This can be done using the camera’s “Format function (pg. 10, “SD Card Format”). Make sure you have backed up (saved to your computer) any files you want to keep on a previously used card, as formatting erases ALL files.
- To take out the SD card, just gently push in the card (do not try to pull it out without pushing in first). The card is released from the slot and ready to be removed when you hear the click. Be sure the camera’s power is switched OFF before removing or inserting SD cards.

## **SETUP MODE**

Once batteries are installed and an SD card is inserted, you’re ready to go into the Setup Mode to get the camera ready to use, with all options set to your preferences. While this can be done in the field (no computer or internet access is needed), most users will likely want to setup the camera at home in advance. There are only a few settings to make, so the process is quick and easy. To start setting up your Bushnell Trail Camera:

1. To enter Setup Mode, move the Power Switch to the middle (AIM) position (Fig.2). The display will come on and show the initial Setup screen (Fig. 5). Note: Don’t worry if you notice the STATUS LED flashing during the Setup process—this is normal, as the AIM position of the switch has a second function that will be covered later in this manual.
2. Press the OK key to begin. When the display flashes, you can use the UP and DOWN keys to change the setting of the currently selected option or item.
3. When you finish changing a setting (or leaving it set “as is”) press OK to lock in the setting and move on to the next option/item. If there is a setting that you don’t need or want to change from the default or current setting, simply press OK to confirm and skip to the next item/option. Once you go through the Setup Mode items and change a few settings, you’ll quickly see how this works.

## **Setting Time and Date (Fig. 6)**

After the Initial Setup screen, the next few display screens will allow you to set the current time and date, so the time/date stamp

# SETUP MODE

Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

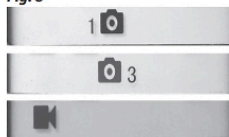


Fig. 9



Fig. 10



Fig. 11



imprinted on all your photos and videos will be accurate when captured by the camera. To change the Time and Date to be current, starting at the default "12 : 00" screen (see Fig. 6):

1. Press OK and use UP/DOWN to set the hour (24 hr/military time format). Press OK to confirm.
2. Use UP/DOWN to set the minute. Press OK to confirm.
3. Use UP/DOWN to set the month. Press OK to confirm.
4. Use UP/DOWN to set the date. Press OK to confirm.
5. Use UP/DOWN to set the year. Press OK to confirm and move on to the next Setup item, Interval Time.

### **Setting Interval (Detection Delay) Time (Fig. 7)**

The Interval or Detection Delay option lets you set the time between captured images when an animal remains within the camera's sensor range after it is first detected and the camera is triggered. Use UP/DOWN to select 5 sec (display shows "00:05"), 15 sec (default value), 30 sec, 60 sec (display shows "00:60") or 5 min. Press OK after setting.

### **Setting Capture Mode (1 photo, 3 photos, or video) (Fig. 8)**

Use UP/DOWN to select your preferred image capture mode: Single Photo per trigger (display shows 1 + a still camera icon) Rapid Sequence of 3 Photos per trigger (display shows a still camera icon + 3) or Video Clips that are 10 seconds long at 1080p resolution (display shows a movie camera icon). Press OK after setting.

### **SD Card Format (delete all files) (Fig. 10)**

The display will show "FOrN" (see Fig. 11). CAUTION: be sure to backup and save any/all files you want to keep first, as formatting will clear the card completely of all files—they will then be difficult or impossible to recover from the card.

If you are sure you want to format a previously used card, use UP/DOWN to change the "N" after "FOr\_" to "y" (Yes), then press OK to confirm and delete all files from the card.

### **Restore Default Settings (initialize camera setup) (Fig. 11)**

The display will show "dEFN" (see Fig. 12). To return the Interval Capture Mode, and Camera ID# to their original, "factory default" settings, use UP/DOWN to change the "N" after "dEF\_" to "y" (Yes) then press OK to confirm. Note: your time and date settings and camera ID# will not be changed from their current settings to the original defaults, and your SD card will not be formatted. Only the Interval and Capture Mode settings will be restored to their defaults.

MOUNTING AND AIMING THE CAMERA

### **Mounting**

After setting the camera's time/date and other options to your preferences, you're ready to take it outside and begin capturing images of animals in the area you want to monitor. When setting up the Bushnell Trail Camera for scouting game or other outdoor applications, you must be sure to mount it in place correctly and

securely. We recommend mounting the Bushnell Trail Camera on a sturdy tree with a diameter of about 6 inches. To get the optimal picture quality, the tree should be about 16-17 ft away from the place to be monitored, with the camera placed at a height of 2.5-3.5ft. Also, keep in mind that you will get the best results at night when the subject is within the ideal flash range, no farther than 70 ft. and no closer than 10 ft. from the camera. There are two ways to mount the Bushnell Trail Camera: using the provided adjustable web belt, or the tripod socket.

**Using the adjustable web belt:** Push one end of the belt through the two brackets on the back of the Bushnell Trail Camera (Fig.12). Thread the end of the strap through the buckle. Fasten the belt securely around the tree trunk by pulling the end of the strap firmly so there is no slack left. Note: it is not possible to use a cable lock (in the upper part of the bracket) and the web belt at the same time. Using the tripod socket: The camera is equipped with a socket at the bottom end to enable mounting on a tripod or other mounting accessories that use a standard 1/4-20 thread.

**Fig.12**



### **Sensing Angle and Distance Test**

To test whether the Bushnell Trail Camera can effectively monitor the area you choose, this test is recommended to check the sensing angle and monitoring distance of the Bushnell Trail Camera. To perform the test:

- Switch the camera's Power Switch to AIM. You can ignore the Setup display, no need to change any settings (provided you

- already set the time/date and other Setup Mode options in advance).
- Make movements in front of the camera at several positions within the area where you expect the game or subjects to be. Try different distances and angles from the camera.
- If the AIM/Status LED (Fig. 1) blinks, it indicates that position can be sensed. If it does not blink, that position is outside of the sensing area.

The results of your testing will help you find the best placement when mounting and aiming the Bushnell Trail Camera. The vertical height away from the ground for placing the device should vary with the animal size appropriately. In general, 3 to 6 feet is preferred. You can avoid potential false triggers due to temperature and motion disturbances in front of the camera by not aiming it at a heat source or nearby tree branches and brush (especially on windy days).

### **Switching ON the Camera**

Once you move the Power Switch to ON, the AIM/Status LED will blink for several seconds. This gives you time to close and lock the front cover of the Bushnell Trail Camera and then walk away. During this time, the AIM/Status LED will blink continuously. After it stops blinking, the PIR sensor is active, and any motion that is detected by it will trigger the capture of photos or videos as programmed in Setup Mode. Be sure you have read the camera Setup Mode section.

Please note, the PIR is strongly sensitive to ambient temperature. The greater the temperature difference between the environment and your subject, the farther the possible sensing distance. Before leaving the camera unattended, please check for the following:

- Are the batteries inserted with correct polarity and is their power level sufficient?
- Does the SD card have sufficient available space and is its write-protection (lock) switch off?
- Is the Power switch in the ON position? (do not leave it set to AIM).

### **SAVING/VIEWING THE PHOTOS/VIDEOS ON YOUR COMPUTER**

After you have setup, mounted and activated your Bushnell Trail Camera, you will of course be eager to return later and review the images it has captured for you. The best way to do this is to switch the camera OFF and remove the SD card so you can take it home to download and review your photos/videos at leisure. To continue using the camera, simply insert another SD card (format it first in the Setup Mode menu if necessary, after making sure you have backed up any files you want to keep that are left on a previously used card) and switch the camera back ON. The time/date and other settings made in Setup Mode will remain unchanged as long as the batteries remain in the camera and provide adequate power for it to operate.

### **Downloading and Reviewing Image Files From the SD Card**

Insert the SD card you removed from your camera into the SD card slot of your computer if it has one, or the SD slot of a USB card reader accessory (follow the directions provided by the manufacturer). Depending on the computer's operating system, the SD card's icon and name will then be visible on your desktop, under "Devices with Removable Storage" in "My Computer" or in a list of drives and connected devices. Double click the SD card or card reader's icon to open it and view the file names (you may need to open an additional folder or two within the first level). Note: some computers and operating systems may automatically launch a pop-up window that lets you view or save the photos/videos on the card soon after it's inserted.

Fig. 13

Alternatively, you can connect a compatible USB cable (not included) to the USB port on the Lower right side of the camera (Fig.13) to your computer this is less convenient as it requires removing the camera from the tree. The camera then effectively becomes an SD card reader (USB "mass storage device") and can be used as described above. If the SD card is not recognized by the computer after 30 seconds (with the card in the camera), try switching the camera to ON or using a different USB port on the computer (not an unpowered USB hub).

Each new image or video will be numbered incrementally in order of the time it was captured. For example, you will see file names such as "IMAG0001.JPG" or "IMAG0001.AVI". Through the file format suffix you can distinguish whether the file is a still photo (with suffix .jpg) or a video (with suffix .avi). Your computer should have the option of allowing you to view the files as preview images instead of file names/types (Windows: More Options>Small to Large icons, Mac: View>as icons). Double clicking any individual file will let you view the photo or video full screen within whatever application is associated with that file format.

Select any/all files you want to backup and drag or copy/paste them to your computer's hard drive wherever you normally keep photos and videos. You may want to create a new folder named "Bushnell Trail Cam" or another specific title to keep them separate from family photos, etc. Once the card's files have been backed up, you can delete any that you decide not to keep. The same card can then be returned to your Bushnell Trail Camera for future use. Use the format feature in Setup Mode to erase the entire card if you want to have its full capacity available to store as many images as possible before it becomes full and you need to go through this remove>download>backup>format>reuse process again. Using higher capacity cards (Max 32GB) and/or swapping out multiple cards will allow you to do this less frequently.

## **TWO-YEAR LIMITED WARRANTY**

Your Bushnell® product is warranted to be free of defects in materials and workmanship for two years after the date of purchase. In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product postage prepaid. This warranty does not cover damages caused by misuse, improper handling, installation, or maintenance provided by someone other than a Bushnell Authorized Service Department.

Any return made under this warranty must be accompanied by the items listed below:

- A check/money order in the amount of \$10.00 to cover the cost of postage and handling.
- Name, address and daytime phone # for product return.
- An explanation of the defect.
- Copy of your dated proof of purchase.
- Do not send in accessories (batteries, SD cards, strap), only the product for repair.
- 

Product should be well packed in a sturdy outside shipping carton to prevent damage in transit, and shipped to the address listed below:

### **IN U.S.A. Send To:**

Bushnell Outdoor Products  
Attn: Repairs  
2210 W 167th St. Olathe, KS 66062

### **IN CANADA Send To:**

Bushnell Outdoor Products  
Attn.: Repairs  
140 Great Gulf Drive, Unit # B  
Vaughan, Ontario L4K 5W1

For products purchased outside the United States or Canada please contact your local dealer for applicable warranty information.

This warranty gives you specific legal rights.

You may have other rights which vary from country to country.

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Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.

## **FCC COMPLIANCE STATEMENT**



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules. Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.

**⚠ CAUTION :**

**RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.**

**DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS:**

Do not disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;  
Do not leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

Do not expose the battery to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

**DISPOSAL OF ELECTRIC AND ELECTRONIC EQUIPMENT**

[Applicable in the EU and other European countries with separate collection systems]

*This equipment contains electric and/or electronic parts and must therefore not be disposed of as normal household waste. Instead, it should be disposed at the respective collection points for recycling provided by the communities. For you, this is free of charge. If the equipment contains exchangeable (rechargeable) batteries, these too must be removed before and, if necessary, in turn be disposed of according to the relevant regulations (see also the respective comments in this unit's instructions). Further information about the subject is available at your community administration, your local waste collection company, or in the store where you purchased this equipment.*



# **Bushnell®**

## **TRAIL CAMERAS**

For further questions or additional information please contact:

Bushnell Outdoor Products  
22101 W 157th St. Olathe, KS 66062

(800) 423-3537 | [www.bushnell.com](http://www.bushnell.com)

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