Bushnell®

TROPHY CAM HD
AGGRESSOR
WIRELESS

Model#: 119599C2

07-16

MY CAMERAS : REFERENCE LOG

#	Camera Name	Serial #	Location
1			
2			
3			
4			
5			
6			

Page Index

IMPORTANT NOTE

Congratulations on your purchase of the Bushnell Aggressor Wireless Cam! Bushnell is very proud of this camera and we are sure you will be pleased with it as well. Please refer to the notes below and the instructions in this manual to ensure that you are completely satisfied with this product.

If your Bushnell Aggressor Wireless Cam does not seem to be functioning properly or if you are having image quality issues, please check the FAQ/Troubleshooting section on pages 47-56.
Problems are often due to something simple that was overlooked, or require only changing one setting to solve.

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

Bushnell recommends using Energizer® Lithium AA batteries (12 required) in the Aggressor Wireless Cam to obtain maximum battery life

Do not mix old and new batteries
Do not mix battery types-use ALL lithium or ALL alkaline

Bushnell recommends using SanDisk® SD and SDHC Cards (up to 32GB capacity, Ultra® or Extreme® series for HD video) in the Aggressor Wireless Cam

Note: the Bushnell Aggressor Wireless Cam is not designed or intended for operation or sale outside of the United States.

Quick Start Guide

1. Go to **www.wirelesstrophycam.com** and click "**SETUP A NEW ACCOUNT**".
2. Fill in your personal info and set your notification preferences. Click "**CREATE**". You will receive a verification email -click the link in this, then continue with Step 3.
3. Click the plus sign (+), name your camera and enter its serial number (printed inside the camera*). Click "**ADD IT**".

1

2

3

***Note*: we suggest taking a photo of your Trophy Cam's serial number with your cell phone camera, to keep it handy for future reference.**

Quick Start Guide

4. Open the camera's latch and install 12 "AA" size batteries *(lithium or alkaline)*. Insert a new SD card *(up to 32 GB)*.
5. Move camera's power switch to the **SETUP** position, then press the **MENU** button.
6. Select your preferred method of receiving images (**Cell phone number or Email address**). Press **OK** on the camera's control panel.
7. Enter your cell phone number or email address *(lower case letters are not necessary or provided in email settings)*.

4

5

6

Quick Start Guide

8. Press **MENU**. The camera will save your information, do a GPS search (allow a few minutes the first time and preferably test OUTDOORS), then countdown and take a test photo. ***Note: the LCD display will power off while the camera is transmitting the image***. *If the camera is unable to connect to a valid cell phone # or email, the display will indicate "Modem Init Fail".*

9. If "Modem Init Fail" is displayed, try powering camera **OFF**, then straight to **ON**. In ON mode, the camera will also attempt to send the first image when triggered. After first transmitted image is confirmed, both setup test images and live ON images should function properly. If you continue to have "Modem Init Fail" message or camera fails to transmit, please contact our customer service at 800-423-3537.

10. The camera displays the signal strength for the last connection. Check your cell phone or email to verify the test image was received.

11. After you have verified the camera is transmitting images, move the switch to **ON** to initiate "live" triggering, and leave the area.

12. You can now log in to your account at **wirelesstrophycam.com** to view new images, change settings, and monitor the status of one or more wireless cameras. You can also control your camera(s) remotely via the Bushnell Wireless Cam app, a free download for iPhone® and Android™.
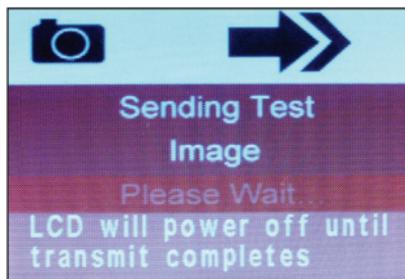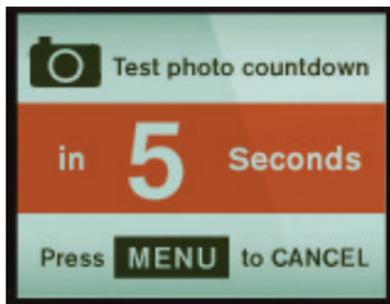

iPhone® is a registered trademark of Apple Inc.
Android™ is a trademark of Google Inc.

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MANAGING YOUR CAMERA(S) ONLINE

The camera will notify you when new images are captured and available for viewing. You can change the camera's settings* by clicking the gear icon under the camera's name. You can also remotely monitor the battery level, wireless signal strength, and remaining SD card space.

Note: it is not possible to set the Camera Mode to "Video" when Wireless Mode is switched on. Only still photos can be transmitted wirelessly, due to the large files generated by video and carrier bandwidth limitations.

Adding A Camera

- Once your account is setup and you are logged in, you will see the **My Cameras** screen *(a)*. To return to it at any time, click "**My Cameras"** at the top right of the webpage.

- The My Cameras screen allows you to quickly view images from any or all of your active cameras, display its location on a map or satellite photo, and monitor the current state of your battery level, remaining memory capacity, signal strength, service plan status, and even change the settings of any camera remotely.

- To add a new camera to the list, click "**Add a camera**". Create a name for this camera, and enter its serial number *(see pg. 5 for SN location)* *(b)*. Then click "**Add it!**"

a

b

Viewing Camera Images and Status

- The thumbnail image to the left of a camera's name represents the most recent photo that it captured *(c)*. Click on the thumbnail to see an overview of all images captured to date from that camera *(d)*. Click any single image to see a larger view, with options at the bottom of the window to download the thumbnail, get a high resolution image file, delete the image, or share it on Facebook™.
- Click the battery icon *(e)* to the right of the thumbnail image to display the current power level of the camera's batteries.
- Click the signal strength icon *(f)* to display the condition of the camera's transmitting signal.
- Click the memory capacity gauge *(g)* below the battery icon to display the percentage of the camera's SD card that has been used.
- Click the gear icon *(h)* to open a new window *(next page)* that will allow you to change the camera's settings remotely.
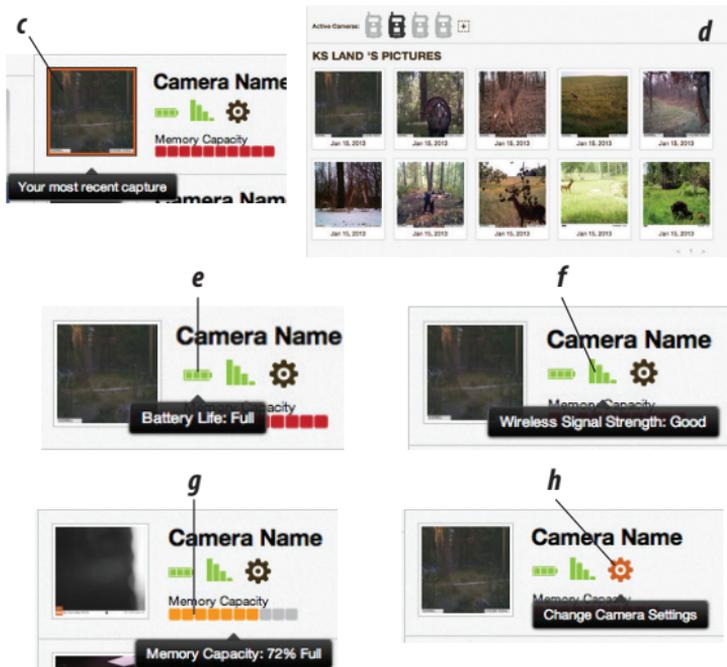
Changing Camera Settings

After clicking the gear icon *(h)*, a new window will open *(i)*. This Camera Settings screen allows you to remotely change a wide range of parameters controlling your Aggressor Wireless Cam's operation from anywhere you have internet access. The settings that are available are listed below *(click the blue "?" or see the full manual for a detailed explanation of each setting)*.

- **Camera Name**
- **Communication Frequency**
- **Night Vision Shutter Speed**
- **Image Resolution**
- **Camera Mode**
- **Captures Per Trigger**
- **Motion Sensitivity**

- **LED Flash Intensity**
- **Delay Interval**
- **Image Overwrite**
- **Image Timestamp**
- **Field Scan**
- **Embed GPS**
- **Wireless Mode**

After you finish making all desired changed to the current camera settings, click "**SAVE**" to confirm and execute the changes. If you want to return to your original settings and start over, click "**RESET**" and "**SAVE**". To remove this camera from your My Cameras group, click "**REMOVE THIS DEVICE**".

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Checking Data Plan Status

The white portion of the calender icon *(j)* shows the days remaining on your current data plan. Click the calender icon to open a window that allows you to purchase service plan extensions.

Displaying the Camera's Location

Hover your cursor over the map icon *(k)* to see the Lat/Long position of the camera. The camera's GPS coordinates are updated automatically during nightly check-in. Click the map icon to view the camera's location on a street map or satellite photo (click Map or Satellite to select). You can zoom in/out, and drag on the map to move the view.
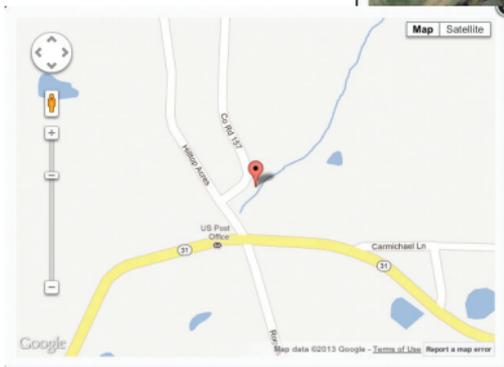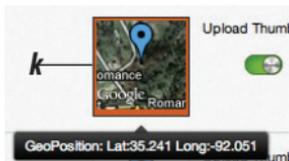
Thumbnail Upload Enable/Disable

Click the switch under "Upload Thumbnails" *(l)* to disable (or re-enable*)
the automatic uploading of thumbnail images for a camera. This can be
changed later, and will not interfere with your ability to communicate
with the camera.

**Note: allow up to 24 hrs for uploads to resume after re-enabling from "OFF"
status.*
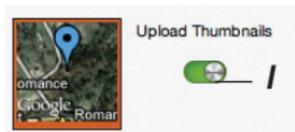
Displaying All Camera Locations

Click "**Display All Camera Locations**" (near "**MY CAMERAS**") to see an
overview area map with markers representing each of your Aggressor
Wireless Cams.

*Note: the Coverage Viewer webpage (http://www.att.com/maps/edo/att-hplmn-broadband.html) is a
useful tool to preview potential locations for your camera, but should not be considered a guarantee of
wireless coverage, due to variable environmental conditions, terrain, etc. The successful reception of a
test image is the best assurance that your camera will work in the location where you mount it.*

Viewing All images

Click "**Display All Camera Locations**" (above your first camera's thumbnail image) to see a large "contact sheet" or grid view of all images captured to date from all cameras. Click any single image to see a larger view, with options at the bottom of the window to download the thumbnail, get a high resolution image file, delete the image, or share it on Facebook.
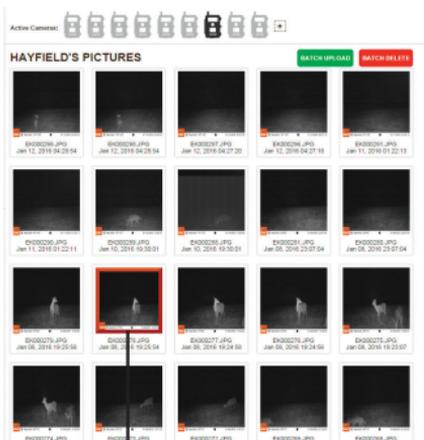
Using the iPhone® or Android™ App

If you choose to have the initial test image sent to your cell phone number, when you receive it you will also be given the option of downloading Bushnell's Wireless Trail Cam app. This easy to use app for iPhone® and Android™ provides most of the same features and functions described in the previous section, "Managing Your Camera(s) Online".

Here is the basic layout and operation of the app *(Android version, iPhone is similar)*:

Upper menu bar: **Images/Cameras/Account**
Lower menu bar (when **Images** is selected in upper menu bar): **Grid/List**

- **Images** shows thumbnails from All Cameras by default-tap **All Cameras** to select any individual camera.
- **Grid** view shows larger thumbnail and date
- **List** view shows smaller thumbnail, along with date and name of camera that captured image.
- Tap any thumbnail to see a full screen view.

Tap **Cameras** to display (in List view) latest thumbnail, battery and memory status for each camera. Tap any camera to get settings screen (camera name, communication frequency, etc.)

Tap **Account** to change Notification Settings, including:
- When new thumbnails are uploaded
- When a camera fails to check in
- When my batteries are low
- When my SD card is nearly full
- When my data plan requires attention

Lower menu bar (when Cameras is selected in upper menu bar): **List/Map/Add**
- **Map** view shows location of each camera.
- **Add** lets you add a new camera by entering its name and serial number.

INTRODUCTION

About the Aggressor Wireless Cam

The Bushnell **Aggressor Wireless Cam** is a digital scouting camera. It can be triggered by any movement of game in a location, detected by a highly sensitive Passive Infra-Red (PIR) motion sensor, and then take high quality pictures (up to 14MP still photos), or video clips.

The **Aggressor Wireless Cam** consumes very little power (0.15mA) in a stand-by (surveillance) state. This translates to a stand-by operating period ranging from weeks to months on a full set of 12 AA batteries, with the low end of the range based on alkaline batteries and frequent data transmission, and the high end contingent on the use of lithium batteries and a lower transmission frequency*. Once motion in the monitored area is detected, the digital camera unit will be triggered at once (0.3 seconds) and then automatically take photos or videos according to previously programmed settings. The **Aggressor Wireless Cam** is equipped with built-in infrared LEDs ("black" IR LEDs that function as a flash, so that it delivers clear photos or videos (in black & white) even in the dark, and it can take color photos or videos under sufficient daylight. The **Aggressor Wireless Cam** is designed for outdoor use and is resistant against water and snow.

An optional Solar Panel accessory (model# #119756C) can provide extended battery life. Please contact your Bushnell dealer for availability.

Your Bushnell **Aggressor Wireless Cam** represents the summit of our trail camera technology, including features such as:

- Auto PIR Sensitivity-the camera monitors ambient temperature conditions and automatically adjusts the sensor/trigger signal to be more sensitive to slight variations in temperature on hot days, less sensitive on cold days.

- Hyper NightVision-The IR LED Flash array now has increased range, brighter output and better coverage for improved nighttime images.

- Field Scan 2x with Live Trigger-Field Scan is a special feature which allows the camera to capture time lapse images or video. This has the advantage of giving you the ability to monitor the edge of a field that might be 50 or 150 yards away from the camera out of the PIR sensor's range. Two independent "blocks" of time lapse recording can be setup, and the camera will still also record images when triggered by nearby animal activity as well.

- GPS Geotag Capability-allows the user to input the longitude and latitude of the camera's position, which will be embedded in each photo file. GPS coordinates are updated automatically during nightly check-in. This enables Google Earth™, Picassa® and other geotag enabled software to automatically show a map pinpointing each camera's location when a group of photos are reviewed on a computer. Especially useful for those who setup multiple **Aggressor Wireless Cams** to monitor large or widely separated areas.

- Multi Flash Mode (LED Control)- prevents overexposed flash photos in close range applications

- NV Shutter-user can select shutter speed for images captured at night allowing control over brightness vs. ability to stop motion

- Camera Operating Mode can be limited to Day only, Night only, or 24 HRs

- Image Recycle option allows new photos/videos to begin replacing oldest files when SD card is at max. storage capacity, so recording will continue without interruption.

And many more features such as HD Video with Audio, widescreen or fullscreen format still photos, imprintable camera name (user set) along with current data including temperature and moon phase.

Applications

The **Aggressor Wireless Cam** can be used as a trail camera for hunting or scouting game. It is also suitable for surveillance usage.

PARTS AND CONTROLS

The **Aggressor Wireless Cam** provides the following connections for external devices: USB port, SD card slot, and external DC power in (*pg 18, Fig. 1)*.

A 3-way power switch is used to select the main operating modes: **OFF, SETUP**, and **ON** (*pg 18, Fig. 2)*.

A control key interface with six keys is primarily used in SETUP mode to select operational functions and parameters. As shown on the next page, these keys are: **UP**, **DOWN**, **LEFT**, **RIGHT**, **OK** and **MENU**. Four of the keys can also perform a second function (shortcut operations in **SETUP** mode) in addition to their main function: The **DOWN** key can be used to set the

FRONT VIEW

Light Sensor

ARD

LED IR Flash

Lock Hole

Lens

Motion Indicator

PIR Sensor

Latch

Video Mic

DC in Cover Plug

Tripod Socket

Fig. 1: **Connections**

SD Card Slot

USB Port

Video Mic

DC In

INSIDE VIEW

LCD Screen

Cable to Battery Compartment

Up   Down   Left   Right   OK   Menu

UP/Video

LEFT

MENU

OK/Replay

DOWN/Photo

RIGHT/Shot

Video   Camera   Shot   Replay
OFF   Setup   ON

Power/Mode (OFF/SETUP/ON) Switch
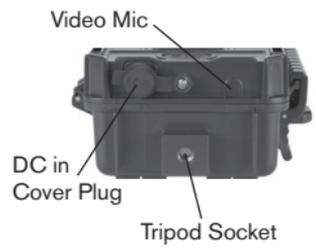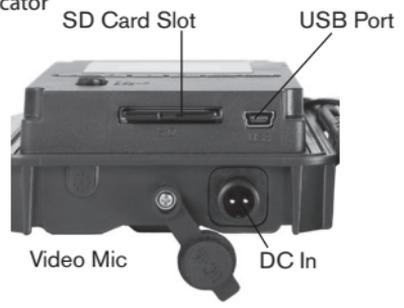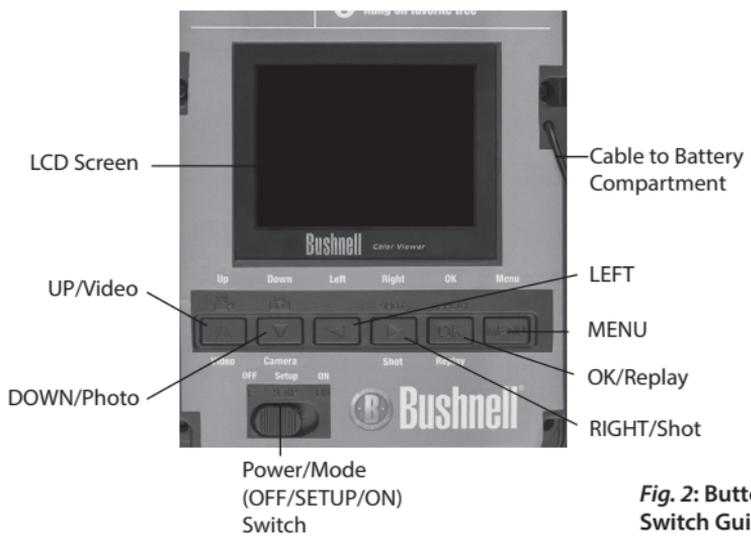
Fig. 2: **Button and Switch Guide**

camera to Photo mode (still camera icon), and the **UP** key can set the camera to Video mode (movie camera icon). The **RIGHT** key also serves as the manual shutter ("SHOT") button of the camera and the **OK** key switches the camera to the Playback ("REPLAY") mode. These secondary functions are indicated by icons or text above the key as shown below.

INSTALLING THE BATTERIES AND SD CARD

Before you begin learning how to use your **Aggressor Wireless Cam**, 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

After opening the latch on the right side of the Aggressor Wireless Cam, you will see that the **Aggressor Wireless Cam** has twelve battery slots. Load the camera with a full set of 12 new batteries. Do not mix old and new batteries, and do not mix different types of batteries (use all lithium or all alkaline). Be sure to insert each battery with correct polarity (negative or "flat" end against the long spring of each battery slot).

Bushnell recommends using new lithium AA (Energizer® brand) or alkaline AA batteries. NiMh Rechargeable batteries are not recommended, as the lower voltage they produce can cause operational issues. *It is also possible to use a Bushnell solar panel designed for this camera-see below for more details.*

Using an External Power Source (optional, user provided)
Optionally, you can connect the #119756C Accessory Solar Panel *(please visit* **www.bushnell.com** *for more information)* to the "DC In" jack at the bottom of the **Aggressor Wireless Cam** *(other external power supplies should not be used, as the camera and/or display may not function correctly)*. If the solar panel is connected and AA batteries are installed, the **Aggressor Wireless Cam** will be powered by the solar panel's rechargeable lith-ion

battery, as long as it provides adequate voltage (if not, the camera will switch to battery power). The solar panel's battery will power the camera at night. Nominal output of the 119756C solar panel is 8.4V.

Inserting the SD Card

The **Aggressor Wireless Cam** has 64MB of internal memory, which can hold only about 37 photos (@ 8MP resolution). This is handy for testing and getting familiar with the camera, but you will no doubt want to leave the camera unattended for longer than a day or two, so using an SD card is recommended. Insert the SD card (with the camera's power switch in the **OFF** position) before beginning to operate the camera. Don't insert or remove the SD card when the power switch is in the **ON** position.

The **Aggressor Wireless Cam** uses a standard SD (Secure Digital) memory card to save photos (in .jpg format) and/or videos (in .avi format). SD and SDHC (High Capacity) cards up to a maximum 32GB capacity are supported. High speed SD cards are recommended if you will use the 1280x720 video resolution setting (HD). Before inserting the SD card into the card slot after opening the camera's front cover, please make sure that the write-protect switch on the side of the card is "off" (NOT in the "Lock" position). The following describes how to insert and remove the SD card:

- Insert the SD card into the card slot with its label side upwards (see *below*). A "click" sound indicates that the card is installed successfully. 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 installed correctly, the device will not display an SD card icon on the LCD in SETUP mode (*the SD card icon displayed after switching to SETUP mode will have a "lock" symbol inside it in it if the card is locked*). Formatting the SD card by using the **Aggressor Wireless Cam's** "Format" parameter before using it for the first time is recommended, especially when a card has been used in other devices *(see "Changing Menu Parameter Settings" for details)*.

- 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.

USING THE AGGRESSOR WIRELESS CAM

Once you've prepared your **Aggressor Wireless Cam** by properly installing batteries and an SD card, you could simply take it outside, strap it to a tree, switch it on and leave-and you might get some great photos that are exactly what you wanted. However, we highly recommend that you first spend some additional time indoors with this manual and your camera until you know a bit more about what the 3-way switch and those control keys do. If nothing else, you'll probably want to at least set the date and time so the camera will imprint them (or not-it's your option) on your photos as they are taken, learn how to set the camera to shoot video clips instead of still photos if you like, and read some tips about mounting it on a tree.

OPERATING MODES

The **Aggressor Wireless Cam** has three basic operational modes:
- **OFF** mode: Power switch in the **OFF** position.
- **ON** mode: Power switch in the **ON** position (LCD screen is off.)
- **SETUP** mode: Power switch at **SETUP** position (LCD screen is on).

OFF MODE

The **OFF** mode is the "safe" mode when any actions must be taken, e.g., replacing the SD card or batteries, or transporting the device. You will also use **OFF** mode if you connect the camera to a computer's USB port later to download your photos/videos. And of course, when you are storing or not using the camera, you will switch it to **OFF**. Please note that even in the **OFF** mode the **Aggressor Wireless Cam** still consumes power at a very low level. Therefore, it's a good idea to take the batteries out of the battery compartment if the camera will not be used for a long time.

ON MODE

Anytime after the batteries and SD card have been inserted, you can switch on the camera. When the power switch is moved to the right position, the camera will enter into the **ON** (Live) mode. The motion indicator LED (*pg. 18, "Front View"*) will blink red for about 10 seconds. This interval allows time for you to close the **Aggressor Wireless Cam's** front cover, lock it, and leave the monitored area. Once in the **ON** mode, no manual controls are needed or possible (the control keys have no effect). The **Aggressor Wireless Cam** will take photos or videos automatically (according to its current parameter settings) when it is triggered by the PIR sensor's detection of activity in the area it covers.

You can either move the power switch directly from OFF to ON mode, or stop at the SETUP position first to change one or more settings, then move the switch to ON after you have finished doing so.

SETUP MODE

In the **SETUP** mode you can check and change the settings of the **Aggressor Wireless Cam** with the help of its built-in LCD (*or a monitor connected to the TV out jack*). These settings, found in the SETUP Menu, let you change the photo or video resolution, interval between photos, switch the time imprint on, etc. Moving the power switch to the **SETUP** position will turn on the LCD display, and you will see an information screen that shows how many images have been taken, the battery level, camera or video mode, etc (***Fig. 3**, **pg. 24***).

NOTE: Always move the power switch from OFF to SETUP mode. It is possible that the camera could lockup if it is switched from ON to SETUP mode. If this occurs, simply move the switch to OFF and then push it up to SETUP again.

SETUP Mode Shortcut Keys/Functions

As mentioned earlier in "Parts & Controls", four of the keys below the LCD have secondary, "shortcut" functions when the camera is switched to **SETUP** mode (but the **MENU** key has not been pressed):

- Press the **UP** key to quickly set the camera to shoot video clips.

- Press the **DOWN** key to quickly set the camera to take still photos.
- Press the **RIGHT** key to manually trigger the shutter. This is useful for testing the camera-make sure you are in **SETUP** mode, press the **RIGHT** key, and a few seconds later a photo or video (depending on how the camera was set) will be saved to the SD card (or internal memory if no card is inserted). The "number of images taken" counter on the bottom left of the LCD will increase by one. If the display indicates "SD PROTECTED" when you press the SHOT key, switch the camera OFF, remove the SD card and slide its protect switch off.
- Press the **OK** key to replay (review or playback) photos/videos on the LCD, or a connected TV monitor (std. display models). See "Playing Back/Deleting the Photos/Videos" *(pg. 42)* for more details.

USING THE SETUP MENU

The main purpose of the **SETUP** mode is to allow you to change the settings of the camera's parameters (17 different ones are available) so your **Aggressor Wireless Cam** operates exactly the way you want it to. You will do this by entering the **SETUP** Menu and pressing the keys below the LCD display, which will show you each parameter and its setting.

Changing Parameter Settings in SETUP Mode
A wide range of options or "parameters" are provided to allow you to set the **Aggressor Wireless Cam** to your operational preferences. To change the setting of any parameter you must first switch to the **SETUP** mode. Once in **SETUP** mode, pressing the **MENU** button will allow you to select any parameter and change its setting. The name of the parameter and its current setting will be shown on the LCD. Pressing the **RIGHT** or **LEFT** key scrolls to the next or previous parameter (**RIGHT** key to move on to the next parameter and **LEFT** key to go back to the previous parameter), and pressing the **UP** or **DOWN** key lets you select a different setting for the currently displayed parameter. Once you have selected your preferred new setting for a parameter, press the **OK** button to save the new setting (actually change it).

Fig. 3: **SETUP Information Screen**

Camera (Still Photo) Mode
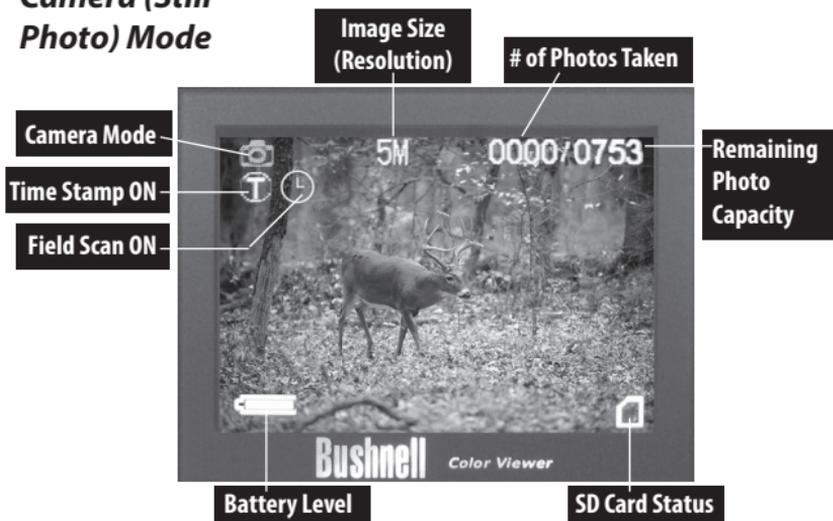
Image Size (Resolution)

# of Photos Taken

Camera Mode

Time Stamp ON

Field Scan ON

5M   0000/0753

Remaining Photo Capacity

Bushnell *Color Viewer*

Battery Level

SD Card Status

*Video Mode **

Video Sound On   **Video Resolution**

Video Mode

640   00:55:20

Available Video Recording Time

Bushnell *Color Viewer*

* Only still photos can be transmitted wirelessly, due to the large files generated by video and carrier bandwidth limitations. When the camera is set to video mode, the video files are stored on the SD card for later review (see PLAYING BACK/DELETING THE PHOTOS/VIDEOS, pg.42)

When you are finished changing the settings of one or more parameters, press **MENU** again to exit the **SETUP** menu. **MENU** can also be pressed anytime you want to cancel changing a parameter's setting after a new setting has been selected (but **OK** has not been pressed yet). After setting the parameters to your preferences, be sure to move the switch to **ON** to begin actually taking photos or videos. No images will be captured if the switch is left in the **SETUP** position *(unless you press the **RIGHT**/Shot key after exiting the menu)*-in fact, the camera will power off automatically after five minutes with no key pressed.

Parameter Displays
All the available settings for the currently displayed parameter are shown on one screen, with a checkmark next to the current setting (***Fig. 4a, pg. 26***). To change the setting, first use the **UP/DOWN** keys to highlight (select) the new setting you want (***Fig. 4b***), then press **OK** to "Execute" the actual change to the selected setting. The checkmark will appear next to your new setting to confirm this (***Fig. 4c***).

EXAMPLES-Changing the Settings of Some Common Parameters

Following this page, you will find tables listing all of the parameters found in the **SETUP** Menu, along with their possible settings (or range of settings), and a detailed description of what the parameter controls and what the settings do. If you read the previous section detailing how to select parameters and change their settings, you should be able to dive right in, find the parameter(s) you want, and setup the camera to suit your preferences. But maybe you'd rather walk through an example or two first:

To change any parameter's setting, always start with the power switch in the **SETUP** position. After the LCD comes on, press the **MENU** key.

The first parameter you will see when you first enter the **SETUP** Menu is "Mode". To change it from its default setting of "Camera" (still photos) to "Video" (shoot video clips), press the **DOWN** key to highlight "Video". Press the **OK** key to "Execute" (Set) the new setting you've selected for this parameter.

Fig. 4: Selecting Parameter Settings

(4a)   Press MENU

(4b)   Press DOWN
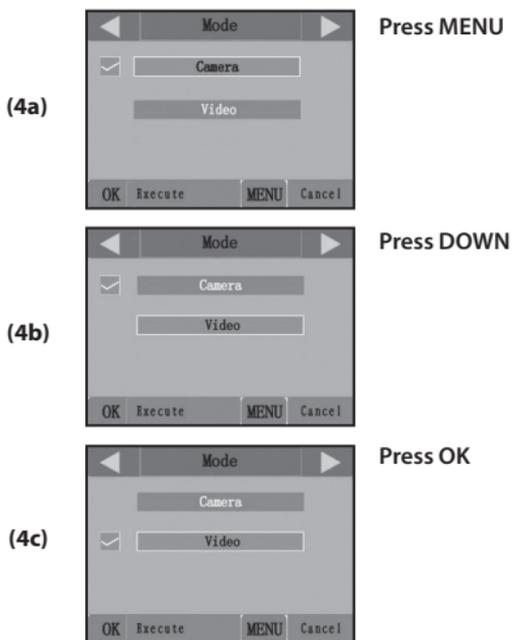
(4c)   Press OK

Now press the **RIGHT** key to move to another parameter in the Menu. Pressing it three times will take you to "Capture Number". Try using the **UP** and **DOWN** keys to scroll through the range of settings, then press **OK** to lock in your setting for the number of photos the camera takes each time it's triggered.

Pressing the **RIGHT** key until you reach the last menu item, you'll see the "Default Set" parameter. Highlight or select "Execute" (using **UP** or **DOWN**) and press **OK** to restore all parameters (including the Mode and Video Length parameters you changed a minute ago) back to their original factory default settings. The default settings for each parameter are indicated in bold type in the **SETUP** Menu tables on the next several pages.

Be sure to set the current date and time, using the "Set Clock" parameter, if you choose to change the "Time Stamp" parameter setting to "On" since that will tell the camera to imprint the date and time on each of the images it captures.

USING THE FIELD SCAN FEATURE

Field Scan is a useful special feature which allows you to monitor your food plots or field edges with time lapse images or video. When set to "On", the **Aggressor Wireless Cam** will take a photo (or record a video clip) automatically at your choice of intervals (for example, once every five minutes) during one or two blocks of time you set up for each day, **without requiring a trigger from an active animal**. This has the advantage of giving you the ability to monitor the edge of a field that might be 50 or 150 yards away from the camera out of the PIR sensor's range. The result is an effective range much greater than it would normally be, with the camera dependant on triggers generated by nearby animals. This is a great tool for hunters to scout an entire field with only one camera.

If an animal does enter the area covered by the PIR sensor and generate a trigger event during a time in between the Field Scan intervals you set, the camera will capture an image or video just as it normally would, based on your other menu settings. Here's how to setup and use Field Scan (be sure you've set the current time in "Set Clock" first, so your Field Scan recording will stop and start at the correct times of day):

1. Move the main switch to **SETUP**, then press **MENU**.

2. Keep pressing the **RIGHT** key, stepping through the Setup Menu until you reach Field Scan.

3. Press the **UP** key to select On, and press **OK** *(Step 1, pg.30)*. You will see "A", representing the first block of time you can define (a second block of time later in the day, "B" can also be setup if you wish). Press **OK** *(Step 2)*. This takes you to the screen to set Start and Stop times, which determines the clock times when the first block of Field Scan recording will begin and end for each day. You can set these times to the exact hour and minute you want, for a recording "window" that lasts anywhere from just a minute to a full 24 hours.

4. Set the [Start] and [Stop] times, beginning with the Start hour, using the **UP/DOWN** keys to change the setting *(Step 3)*. The hour setting is based on a 24-hour clock, with "00" hours = midnight, "12" hours = noon, "23" hrs = 11PM, etc. To move to the next setting, press the **RIGHT** key, change the minute for the Start time with **UP/DOWN**, then on to the hour and minute settings for the Stop time.

5. After you finish setting the Stop minutes, press **OK** to confirm your settings for the first block of Field Scan recording. If desired, you can create a second block of time by pressing the **DOWN** key to select "B" *(Step 4)*, then press **OK** and follow the same process to set Start and Stop times for Field Scan block "B" *(Step 5)*. As an example of how you might use these two available time blocks, you could setup Field Scan time block "A" for the dawn hours from 6 AM to 8 AM, and block "B" to capture images between 5:30 and 7 PM. No Field Scan recording would occur from 8 AM to 5:30 PM, or from 7 PM to 6 AM.

6. After setting Start/Stop times to define Field Scan block "A" and/or "B", press **OK**, then press the **UP** or **DOWN** key to select "Interval" and press **OK** *(Step 6)*. The Field Scan "Interval" setting lets you control how often a photo or video clip is recorded during the block(s) of time you defined with the Start and Stop settings. Your options are 60 minutes, 30 minutes, 15 minutes, or 5 minutes (this is the default). Use the **UP/DOWN** keys to select your preference, then press OK to save it *(Step 7)*. Note that for videos, "Interval" is independent of the Length of each video recording-it's **how often** videos are recorded, not how long each one lasts.

7. Here's an example of how the camera would operate, based on the following Field Scan settings:

<table>
<tr><td>

Field Scan: On
Field Scan A:
[Start]: 6:00
[Stop]: 8:00
Field Scan B:
[Start]: 17:30
[Stop]: 19:00
Interval: 15M
</td><td>

Note: avoid any "overlap" of Field Scan A & B recording blocks when setting their start and stop times, to assure correct operation. ***Start & Stop times must be in order, within the same day.***
If the "Camera Mode" menu parameter is set to "Day" or "Night" operation only, that will take priority over your Field Scan settings. Set the Camera Model to "24 HR" if you are setting both day and night start and/or stop times in Field Scan.
</td></tr>
</table>

These settings would cause the camera to capture a photo (or video, if the camera is set to that mode) once every 15 minutes, beginning at 6 AM, until the Field Scan "A" recording block stops at 8:00 AM. Later that day, the camera would again take a photo or video every 15 minutes between 5:30 PM and 7:00 PM (during Field Scan time block "B"). The next day, the camera would again record an image or video once every 15 minutes between 6:00 and 8:00 AM, and between 5:30 and 7:00 PM. No Field Scan recording would occur from 8AM to 5:30PM, or from 7PM to 6AM. Remember, Field Scan recording is independent of normal triggers due to animal activity–even if no animals enter the IR sensor coverage zone, an image or video will still be captured every 15 minutes during the block(s) of time. If an animal triggers the camera "in between" the 15 minute intervals, it will be recorded, same as it would if you had setup the camera with Field Scan turned Off. **Note: Field Scan settings of frequent intervals and/or long periods between start and stop time can reduce battery life.**

Set Field Scan ◄ ►	Set Field Scan ◄ ►	Set Field Scan A
ON	☑ A	Start 0 6 : 0 0
☑ OFF	B	Stop 0 8 : 0 0
	Interval	
OK Execute MENU Cancel	OK Execute MENU Cancel	OK Execute MENU Cancel
(Step 1)-set Field Scan Mode to "On"	*(Step 2)*-select Field Scan "A" (press OK)	*(Step 3)*-set Field Scan "A" Stop & Start
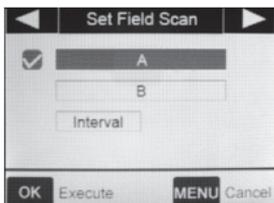
Steps 4 & 5 are optional *(only required if you want to set up a second block of Field Scan recording with different stop and start times)*
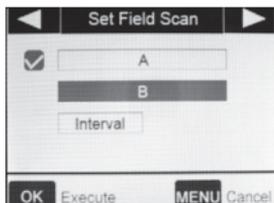
|	
Set Field Scan ◄ ►	Set Field Scan B
☑ A	Start 1 7 : 3 0
B	Stop 1 9 : 0 0
Interval	
OK Execute MENU Cancel	OK Execute MENU Cancel
(Step 4) **(opt)**-select Field Scan "B" (press OK)	*(Step 5)* **(opt)**-set Field Scan "B" Stop & Start

*Note: the Interval Setting sets the timing between each image for both Field Scan "A" and "B" recording blocks.*
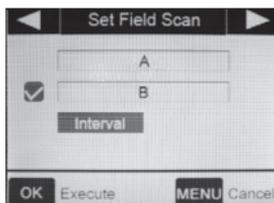
Set Field Scan ◄ ►	Interval
A	Interval 1 5 M
☑ B	
Interval	
OK Execute MENU Cancel	OK Execute MENU Cancel
(Step 6)-select Field Scan "Interval"	*(Step 7)*-set Field Scan Interval
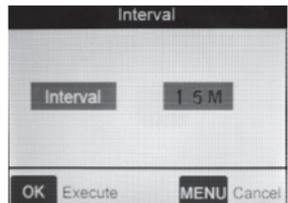
Field Scan photos are saved to the SD card, but __will not be transmitted wirelessly__. images captured in field scan mode are stamped with a "T" icon ("Time Lapse"). Normally captured photos are stamped with an "M" icon ("Motion Trigger")

T Camera Name1   41°F 5°C ●   07-01-2013 06:54:18

"T" Icon indicates Field Scan mode photos

SETUP MENU: PARAMETER/SETTINGS REFERENCE

Parameter	Settings (**Bold**=default)	Description
Mode	**Camera,** Video*	Selects whether still photos or video clips are captured when the camera is triggered.
Image Size *(only affects still photos in Camera mode)*	**3M Pixel**, 8M Pixel, 14M Pixel,	Selects resolution for still photos from 3 to 14 megapixels. Higher resolution produces better quality photos, but creates larger files that take up more of the SD card capacity (fills up faster). 8M is a good compromise between quality and file size.
Image Format *(only affects still photos- format for video is tied to Video Size)*	**Full Screen**, Wide Screen	Selects 4:3 (Fullscreen, like old TV sets) or 16:9 (Widescreen, like new flat TVs) "aspect ratio" for still photos. If you like to view your photos on a TV set or computer monitor, you can set the format to match it.
Capture Number *(only affects still photos in Camera mode)*	**1 Photo**, 2 Photo, 3 Photo	Selects how many photos are taken in sequence per trigger in Camera mode. This setting affects photos taken in Field Scan mode as well (to snap two photos every 10 minutes, for example). *Please also refer to the* **Interval** *parameter.*

* Only still photos can be transmitted wirelessly, due to the large files generated by video and carrier bandwidth limitations. When the camera is set to video mode, the video files are stored on the SD card for later review (see PLAYING BACK/DELETING THE PHOTOS/VIDEOS, pg.42)

Parameter	Settings (**Bold**=default)	Description
IR LED Control (Multi-Flash feature)	**High,** Medium, Low	Controls how many LED lamps fire when images are taken in low light. "High"=all 48 LEDs fire, which is the default setting. Set to Medium or Low if you are getting overexposed flash photos or will place the camera at very close range to the subject you want to photograph. In general, select High if most of your intended subjects will be over 30 ft. from the camera, Medium for the 15 to 30 ft. range, and Low for subjects under 15 ft. away. *Note: in video mode, set to LED Control to "Low" if videos are overexposed at the Medium setting. At the High setting, videos at night are limited to 15 seconds maximum length to prevent overheating.*
Camera Name	(Input) *See "Using the Setup Menu Input Screens"*	Allows the user to set a custom name for the camera. Useful for ID purposes when multiple cameras are setup, since each camera will imprint its name on all photos (but not videos) it captures.
Video Size *(only affects video clips in Video mode)*	1280x720, **640x480**	Selects video resolution (in pixels per frame). Higher resolution produces better quality videos, but creates larger files that take up more of the SD card capacity (fills up faster). The default 640x480 is VGA video in standard 4:3 format. The 1280x720 setting provides "widescreen" format HD video. Using high speed SD cards (SanDisk® Ultra® or Extreme® series or similar) is recommended if you will use the 1280x720 video setting.

Parameter	Settings (**Bold**=default)	Description
Video Length *(only affects video clips in Video mode)*	**10S** (second) default, with 60S (60 seconds) to 5S (5 seconds) range	Sets time length of each captured video clip. Settings begin with 10 second default when parameter is first selected. After stepping down to 5S, video length settings start over at 60S. *Note: when IR LED Control setting is "High" (default), videos at night are limited to 15 seconds maximum length to prevent overheating.*
Interval	**10S** *(second) default, with a 60M (minute) to1S (second) range of settings available.* *(60M-1M are set in one minute increments, 59S-1S are set in one second increments)*	Selects the length of time that the camera will "wait" until it responds to any additional triggers from the PIR after an animal is first detected and remains within the sensor's range. During this user set "ignore triggers" interval, the camera will not capture photos/videos. This prevents the card from filling up with too many redundant images. Settings begin with 10 second default when parameter is first selected. *Note: after setting down past "1S", settings start over at "60M". With Wireless Mode ON, the camera must complete sending each new image before the next image can be captured, so the effective minimum interval will be approximately 45 seconds.*

Parameter	Settings (**Bold**=default)	Description
Sensor Level	Low, Normal, High, **Auto**	Selects the sensitivity of the PIR sensor. The "High" setting will make the camera more sensitive to infrared (heat) and more easily triggered by motion, and the "Low" setting makes it less sensitive to heat and motion. The High setting can be useful when the ambient temperature is warm (making it more difficult for the sensor to detect animals), and the Low setting may help in cold weather if the camera is being triggered too often by anything warmer than the surroundings. "Normal" is for average or moderate conditions. The default "Auto" setting will allow the camera to determine the best setting based on its current operating temperature. This is an ideal setting if the weather is expected to change significantly during the period the camera will be used.
NV (Night Vision) Shutter	High, Medium, **Low**	Affects the shutter speed during Night Vision operation. High will freeze motion better, but photos may be darker. A Low shutter speed setting will produce brighter photos, but rapid motion may be blurred. Medium is a good compromise.
Camera Mode	Day, Night, **24hrs**	Allows user to limit operation to only day or night period if desired (default is 24 Hrs "round the clock"). An ambient light level sensor determines "Day" vs "Night" automatically. This setting takes priority over any Field Scan settings.

Parameter	Settings (**Bold**=default)	Description
Format	Execute *(followed by an additional No/Yes step)*	Deletes (erases) all files stored on a card to prepare it for reuse. Always format a card that has been previously used in other devices. **Caution! Make sure you have downloaded and backed up any files you want to preserve first!** Press **OK** to execute, then select Yes and press **OK** again. Press **MENU** (*or select **NO** then press **OK***) to exit without formatting.
Time Stamp	**ON,** OFF	Select "On" if you want the date & time (that the image was captured) imprinted on every photo/video, select "Off" for no imprint. Note: the current temperature, barometric pressure, moon phase, and (user set) camera name will also be imprinted on your still photos.
Set Clock	(Set)	Press **OK** and use the **UP/DOWN** keys (to change the setting) and **LEFT/RIGHT** keys (to move to the next field) to set the hour *(24-hr format only, "00"=midnight, "12"=noon)* and minute, and then (on the lower row), the year, month and date. *Note: after the first wireless data transmission, the current time is automatically reset by the network. The time may not be correct on your 1st test image if you didn't use "Set Clock" as described above to set it manually first.*

Parameter	Settings (**Bold**=default)	Description
Set Field Scan *Note: images captured in field scan mode will be saved to the SD card, but will not be transmitted wirelessly.*	ON, **OFF** *(After On is selected):* "A" Start/ Stop, "B" Start/ Stop, Interval	Turns Field Scan (Time Lapse) recording mode on/off. When activated, Field Scan forces the camera to take photos or videos even when it is not triggered by a nearby live animal, useful for constant monitoring of an area that might be far away from the camera. The user can set the start and stop times for up to two independent "blocks" of Field Scan recording, as well as the interval time between each photo/video. To ensure correct operation, avoid setting overlapping start/stop times for Field Scan A and B. Please read the "Field Scan 2x…" section of this manual *(pgs 27-30)* for details on using this feature. **NOTE**: If the "Camera Mode" parameter is set to "Day" or "Night" operation only, that will take priority over your Field Scan settings. Set Camera Mode to "24HR" if you are setting day and night Field Scan start and/or stop times.
Coordinate Input	**ON**, OFF *See "Using the Setup Menu Input Screens"*	Allows the user to input latitude and longitude coordinates for the camera's location. This data will be embedded in the files saved on the camera's SD card (if "On" is selected). This makes it possible to see each camera's location as a "pushpin" on Google Earth™ maps when reviewing a folder full of photos from multiple cameras, or use other "geotag" capable software (Picassa®, etc). The camera's current coordinates are also displayed during daily check-in messages.

Parameter	Settings (**Bold**=default)	Description
Set Video Sound *(only affects video clips)*	**ON**, OFF	Select "ON" to record audio along with the video when the camera is set to video mode (saved file sizes will be slightly larger).
Image Recycle	**ON**, OFF *(NOTE: setting Image Recycle to "ON" is not recommended when using 16GB or higher capacity SD cards)*	Select "ON" (default) if you want the oldest photos/videos to be replaced by new images once the SD card is full. Select "OFF" if you want operation to stop when the card is full. Press **OK**.
Wireless Mode	**ON**, OFF	Select "OFF" to operate the unit as a standard trail camera, with no wireless transmission of images (captures photos & videos will be stored on the SD card). *NOTE: once OFF is selected, it is not possible to re-activate Wireless operation remotely via internet or phone app, only by selecting ON on the camera itself.*
Transmit Frequency	**Quick**, Never	Selects how often captured photos are sent to your cell phone or email. The default "Quick" setting will transmit each image transmitted soon after it is captured *(battery life will be reduced)*. "Never" is similar to turning Wireless Mode off (no images will be transmitted)-but this can be changed once per day via remote communication back to "Quick", enabling transmission to resume.

| Parameter	Settings (**Bold**=default)	Description
Default	Execute, **Cancel**	Select "Execute" and press **OK** to restore all parameters to the original factory default settings. If the camera is behaving oddly and you think you may have changed the setting for something accidently (but aren't sure which one), this will reset all parameters to their most commonly used or "generic" settings.
Firmware	(firmware version #)	Displays current operating system (firmware) version.

CAMERA NAME AND COORDINATE INPUT SCREENS

Camera Name Input

After selecting the Camera Name parameter (the only setting is "Input"), press **OK**. If necessary, delete the previous or default name by pressing the **RIGHT** key until the backspace symbol (⟵) (located between letters "A" & "B", also between "j" & "k") is highlighted, then keep pressing **OK**. Select (highlight) each alphanumeric character you want, using the **LEFT/RIGHT** keys, and pressing **OK** after each one to set it. When finished naming the camera, press **MENU** to save the name to memory.

Coordinate Input

When selecting the Coordinate Input parameter for the first time, the default location (Bushnell offices in KS) is shown. When you send your first test image, the camera will update the coordinates in the camera and on the website to its current location. While the camera remains powered on, its current GPS coordinates will be updated automatically during each daily check in.

Degrees
N=North, Latitude
S=South (3 digits)   Minutes   Seconds

Latitude —— (La) N000,00'00"

Longitude — (Lo) W000,00'00"

W=West, Longitude
E=East (3 digits)   Minutes   Seconds
Degrees
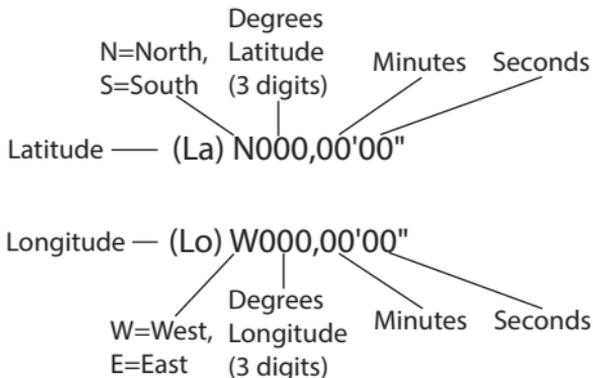
Note: You may see "negative" latitude or longitude coordinates online. These designate South latitudes and West longitudes. US/Canada locations will have North (+) latitude coordinates and West (-) longitude coordinates.

MOUNTING AND POSITIONING THE AGGRESSOR WIRELESS CAM

Mounting

After you've set up the camera's parameters to your personal preferences at home or in your truck, you're ready to take it outside and slide the power switch to "**ON**". When setting up the **Aggressor Wireless Cam** for scouting game or other outdoor applications, you must be sure to mount it in place correctly and securely. We recommend mounting the **Aggressor Wireless Cam** on a sturdy tree with a diameter of about 6 in. (15cm). To get the optimal picture quality, the tree should be about 16-17 ft. (5 meters) away from the place to be monitored, with the camera placed at a height of 3.5-5 ft. (1~1.5 m). 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 80' (24m) and no closer than 10' (3m) from the camera.

There are two ways to mount the **Aggressor Wireless Cam**: using the provided adjustable web belt, or the tripod socket.

   Using the adjustable web belt: *Fig. 5* illustrates using the web belt on the **Aggressor Wireless Cam**. Push one end of the belt through the two brackets on the back of the **Aggressor Wireless Cam**. 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.

Fig. 5: **Attaching the Belt**

Belt Channel

Strap Buckle
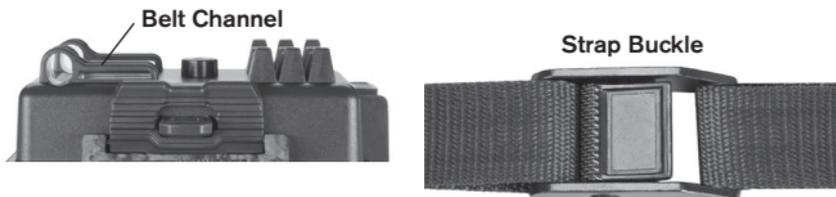
Using the tripod socket: The camera is equipped with a socket at the bottom end to enable mounting on a tripod or other mounting accessories with a standard 1/4-20 thread.

Three optional accessories, a Bear Safe" protective box *(119855C)*, Deluxe Tree Bracket *(119652C)* and Solar Power panel *(119756C)* are also available-please see your Bushnell dealer or **www.bushnell.com** for more details.

Sensing Angle and Distance Test

To test whether the **Aggressor Wireless Cam** can effectively monitor the area you choose, this test is recommended to check the sensing angle and monitoring distance of the **Aggressor Wireless Cam**. To perform the test:

- Switch the **Aggressor Wireless Cam** to the **SETUP** mode.
- Push the **MENU** button twice to enter the "Live View" mode.
- The display will now let you preview the area covered by the camera in its current.
- 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 motion indicator LED light 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 **Aggressor Wireless Cam**. The 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 or brush (especially on windy days).

Switching ON the Camera

Once you switch to the **ON** mode, the motion indicator LED (red) will blink for about 10 seconds. This gives you time to close and lock the front cover of the **Aggressor Wireless Cam** and then walk away. During this

time, the motion indicator LED will blink red continuously. After it stops blinking, the PIR is active, and any motion that is detected by it will trigger the capture of photos or videos <u>as programmed in the **SETUP** Menu</u>. Be sure you have read the descriptions of the Capture Number, Video Length, Interval and Sensor Level parameters. 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. The average sensing distance is about 45 ft.

Before leaving the camera unattended, please check for the following:
- Are the batteries or DC power supply inserted/connected with correct polarity and is the power level is 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 in **SETUP**).

PLAYING BACK/DELETING THE PHOTOS/ VIDEOS

After you have setup, mounted and activated your **Aggressor Wireless Cam,** you will of course be eager to return later and review the images it has captured for you. There are several different ways to do this:

1) Reviewing Images Remotely via Website/Apps

Please refer to pages 10, 14 and 15 in the Quick Start Guide section at the front of this manual for details on how to review your camera's images online or with our smartphone application.

2) Reviewing Images Directly From the SD Card

This is the most popular method of viewing images. Since unmounting the camera and taking it to your computer isn't very convenient, you may find it easier to just take the card out. By removing the SD card (swapping it for a new empty card if you like) and taking it to your home or campsite to view the images by using an SD card "reader" *(user supplied)* connected to your computer (some computers and TVs have a built in SD card slot), you can leave the camera in place ready to capture more images. Once connected, the card reader works the same way as described below-

please read that section if you have any problem finding your files.

3) Reviewing Images on the Aggressor Wireless Cam Color LCD

- Put the power switch in **SETUP** mode (switch to **OFF** first).
- Push the **MENU** key twice to go to "live view" mode, then press **OK**.
- If you are in still photo mode, you'll see the still photo review screen. If you are in video mode, you'll see the video review screen.
- Use the **UP/DOWN** keys to scroll through your photos or videos. A zoom feature is available for still photos: first press the **LEFT** key, then use the **UP/DOWN** keys to zoom in or out. After zooming in, you can then press OK, and use the **UP/DOWN/LEFT/RIGHT** keys to move around and examine small details in different areas of the photo. Press **OK** at anytime to exit and return to the full view.
- Press the **RIGHT (Shot)** key to play a video. If "Video Sound" was set to "On" in the Setup Menu, you should hear audio from the speaker during playback.
- Push **MENU** to delete an image. Image delete mode works as described below. To exit image review mode, press the **OK** key.

4) Reviewing Images by Connecting the Camera to a Computer

You can always unmount the entire camera from the tree and connect its USB port to a computer-it will be recognized as a "removable disk", without the need to install any drivers or software. When using a PC (or Mac*) to view photos (or video clips*), first connect the device to the computer with the supplied USB cable. Then use commercial software with an image browser feature, or an image browser included with the PC's operating system to view images saved on the SD card in the folder \ DCIM\100EK113 *(a new folder will be created every 1000 images)*. 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 "EK000001.JPG" or "EK000001.AVI", etc. Through the file format suffix you can distinguish whether the file is a still photo (with suffix .JPG) or a video (with suffix .AVI).

*video files may require additional software for viewing on a Mac.

The **Aggressor Wireless Cam** supports 3 kinds of file system formats, FAT12, FAT16, and FAT32. The default value is FAT16 to save photos and videos. Here are some related notes:

- You don't need to be concerned about the file system format of the **Aggressor Wireless Cam** unless your equipment has problems reading the SD card. If this happens, please format the SD card with the **Aggressor Wireless Cam** or in your computer first and then insert the card into your **Aggressor Wireless Cam** and try again.
- The default file system format of the **Aggressor Wireless Cam** is FAT16, which most computers can read. If you format an SD card for the **Aggressor Wireless Cam** in your computer, you should choose the file system format FAT16. Normally FAT16 is recommended unless you have another image viewer that uses FAT12 or FAT32 format.

Deleting Photos or Videos

If you see a photo or video during playback on the LCD or video monitor that you want to delete, it can be done easily without leaving **SETUP** mode:

- Press the **MENU** key. You will see the first "Delete" screen, which lets you selects the option to delete only the currently displayed photo/video, or all photos/videos *(see below)*.
- Highlight the "Delete Current" or "Delete All" option, then press **OK**.
- Next, select **"Yes"** and press **OK** to erase only the last displayed photo or video (if you selected "Delete Current"), or every photo and video file on the card (if you selected "Delete All")-or select **"No"** and press **OK** to cancel the operation without deleting any files.

NOTE: *after deleting a picture or a video file, the deleted files can't be restored! It is also possible to delete all files from the card by using the Format parameter (see pg. 35).*

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DOWNLOADING THE PHOTOS/VIDEOS

To download your photos/videos to a PC or Mac, first make sure the **Aggressor Wireless Cam** power switch is in the **OFF** position. Connect the supplied cable to the camera's USB port, then directly to a main USB port on your computer-do not use front panel/keyboard USB ports or unpowered "hubs".

The **Aggressor Wireless Cam** will be recognized as a standard "USB Mass Storage" device (this may take several seconds the first time you connect it). If you would rather leave your camera in the woods and just pull its SD card out, an SD card reader works the same way as described in this section once the card is inserted and the reader is connected to your computer.

With Windows XP or later, you can then simply use the options in the pop-up window to copy, view, or print your photos (*right*).

On all Windows OS, the **Aggressor Wireless Cam** will also be listed as a "Removable Disk" if you open the "My Computer" window (on Macs, an icon will appear on your desktop). The **Aggressor Wireless Cam**'s photo files are named "EK000001.JPG" etc, and are located in the "DCIM\100EK113" folder on this "Removable Disk". Video file names will end with ".AVI". You may copy the photos/videos to your hard drive as you would any file-just copy/paste or drag the file names or icons to your drive or desktop.

After the photos are copied to your hard drive, you can disconnect the **Aggressor Wireless Cam**. (On Mac computers, drag the "disk" that appeared on your desktop when the camera was connected into your Trash to "eject" it before disconnecting.) The .JPG format photo files from the **Aggressor Wireless Cam** may be viewed and edited with any photo software you choose to use. The .AVI video files may be viewed with

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the Windows Media Player on PCs with Windows 7. If your computer is running an older version of Windows, or you are on a Mac, and you don't already have a compatible video player, you can download a free version of the DivX player from **http://www.divx.com/**.

Aggressor Wireless Cam Camera FAQs

Q: What should I do if MODEM INIT FAIL is displayed while taking the test image?
A: If "Modem Init Fail" is displayed, try powering camera OFF, then straight to ON. In ON mode, the camera will also attempt to send the first image when triggered. After first transmitted image is confirmed, both setup test images and live ON images should function properly. If you continue to have "Modem Init Fail" message or camera fails to transmit, please contact our customer service at 800-423-3537.

Q: Why does my camera sometimes transmit an image later than when the image was captured?
A: Due to network conditions, sometimes transmissions can be delayed. This can be due to a temporary decrease in signal strength, weather conditions, or simply the amount of traffic on the network. The camera has a built in troubleshooting mechanism to attempt to resend images at a later time that weren't successfully transmitted previously, likely at the next trigger or daily check-in.

Q: How can I view my Aggressor Wireless Cam Camera images remotely?
A: You can view the photos using your cell phone, email, or online management system.

Q: Will the Aggressor Wireless Cam Camera send field scan thumbnails to my Trophy cam app or online management site?
A: No the Aggressor Wireless Cam Camera will only wirelessly transmit motion triggered photos.

Q: Will the Aggressor Wireless Cam Camera send video to my Trophy cam app or online management site?
A: No the Aggressor Wireless Cam Camera will only wirelessly transmit motion triggered photos.

Q: Do I need to pay for the Aggressor Wireless Cam Camera smart phone app?
A: No, the App is a free download for iPhone/Android.

Q: Can I add multiple Aggressor Wireless Cam Cameras to one user log in?
A: Yes, under "My Cameras" you can add new cameras by clicking "Add a camera".

Q: Can I remove Aggressor Wireless Cam Cameras from "My Cameras" group?
A: Yes, under "My Cameras" simply click "Remove This Device".

Q: Can I change Aggressor Wireless Cam Camera settings from my online management site?
A: Yes, you can change setting by clicking the gear icon underneath your camera name.

Q: Can I check Aggressor Wireless Cam Camera battery life from my online management site?
A: Yes, you can check battery life by clicking the battery icon underneath your camera name.

Q: Can I check Aggressor Wireless Cam Camera memory capacity from my online management site?
A: Yes, you can check memory capacity by clicking the memory capacity gauge underneath your camera name.

Q: Can I check Aggressor Wireless Cam Camera wireless signal strength from my online management site?
A: Yes, you can check wireless signal strength by clicking the signal strength bars underneath your camera name.

Q: Can I have a high resolution file from one of my thumbnails?
A: Yes, by clicking on the thumbnail you have the option to delete image, share on Facebook, or purchase a high resolution image file.

Q: What format does the Aggressor Wireless Cam Camera save images in?
A: The Aggressor Wireless Cam Camera saves photos in .jpg format and videos in .avi format.

Q: What Aggressor Wireless Cam Camera settings will I be able to remotely change?
A: You can change the following settings remotely;
- Camera Name
- Communication Frequency
- Night Vision Shutter Speed
- Image Resolution
- Camera Mode
- Captures Per Trigger
- Motion Sensitivity
- LED Flash Intensity
- Delay Interval
- Image Overwrite
- Image Timestamp
- Field Scan
- Embed GPS
- Wireless Mode

Remember to click "Save" after making setting changes.

Q: Can I check how many days I have left on my Aggressor Wireless Cam Camera data plan?
A: Yes, simply check the calendar icon under "My Cameras", this will display how many days you have remaining.

Q: How do I purchase another Aggressor Wireless Cam Camera data plan from my online management site?
A: Click on the calendar icon to purchase a Basic, Deluxe, or Elite data plan.

Q: How do I cancel my Aggressor Wireless Cam Camera data plan?
A: Click on the calendar icon and select "Cancel Data Plan".

Q: Where is the serial number located on my Aggressor Wireless Cam Camera?
A: The serial number is located on the inside in the top right hand corner above the menu screen.

Q: Why do I get images from a camera in another time zone and they appear to be 1 hour in the future?
A: If you have multiple cameras and one is in a time zone later than the time zone you are located, it would appear to you that the camera is sending images in the future.

Q: How do I get a full resolution image from my camera?
A: Buy a high resolution image or use a high resolution download credit that you've previously purchased or retrieve the full resolution image from the SD card.

Q: Can the camera have a manually set date and time?
A: No, the date and time are pulled from the cellular wireless network and are not manually set.

Q: Can I use this wireless camera on a network other than AT&T?
A: No, all Aggressor Wireless Cams operate on the AT&T network.

Q: Do I need the smartphone app to make the camera work?
A: No, the smartphone apps are a free additional resource. If you choose to not download those, you can still manage the camera remotely and view images from the user website

Q: Why does the camera show my location in Kansas?
A: The default location is centered in the US (Bushnell HQ). The camera will update its current actual location when you send the test image, and again at each daily check in.

Q: I moved my camera and the images are not in the correct order, why is that?
A: If you move your camera to a different time zone your pictures will be stamped with the date and time of the new time zone.

Q: Can I use my camera without a data package installed?
A: Yes, the camera can operate without a data plan. You would not be able to view images from the camera or change settings remotely however.

Q: How do I set my camera to field scan for a period that spans past midnight?
A: To accomplish that, you need to set Field Scan A and B Start/Stop times like this example: 12am-7am ("A" time block starts after midnight) and 7:01am-11:59pm ("B" time block stops before midnight). The Field-Scan is a range of hours in a single day.

Q: Why do I see skipped images on website or APP?
A: Field Scan Images will not be transmitted to the website or APP.

Q: Why do I see skipped images on website or APP overnight?
A: The camera does a nightly check in every night, while doing so it may utilize field scan to trigger the camera in which case it will not transmit those images but may store them to the SD card.

Q: How do I completely delete a camera from my account?
A: You must first go into settings and select "remove from account". Next you must go in and delete all images. Once all images are deleted the camera will no longer appear on your account grayed out.

Q: How do I turn off alerts to my phone, email or app?
A: You can accomplish this via the account settings page on the website or on the app.

Q: What if I lose wireless signal on the camera—will it continue to take images?
A: If you lose connectivity to the network, the camera will continue to take images like a normal trail cam and save them to the SD card.

Q: What should I do if I see "GPS failure" after a GPS search before taking a test image?
A: If you were indoors, go outdoors and try again. If it still fails, switch the camera to ON and leave it outdoors to see if it updates during the nightly check in. If GPS still does not update, please call Bushnell customer service at (800) 423-3537.

Q: What should I do if I see "Modem Init Fail" on the display after taking a test image?
A: Try moving to another location (check the Bushnell website to make sure you are in an AT&T coverage area). If you still get the message after trying the test image in a different location in the coverage area, please call Bushnell customer service at (800) 423-3537.

FOR THE LATEST, UPDATED FAQs, PLEASE VISIT
www.bushnell.com/global/customer-service

TROUBLESHOOTING

"MODEM INIT FAIL" is displayed while taking the test image

If "Modem Init Fail" is displayed, try powering the camera **OFF**, then straight to **ON**. In ON mode, the camera will also attempt to send the first image when triggered. After first transmitted image is confirmed, both setup test images and live ON images should function properly. If you continue to have "Modem Init Fail" message or camera fails to transmit, please contact our customer service at 800-423-3537.

Camera takes continuous images of no subject

A camera has what is known as a "false trigger" if the PIR sensor thinks that there is motion and heat in front of the camera lens when there is no subject in the image. These "False Triggers" are the result of placing the camera in an environment where there is motion associated with tree branches creating motion in front of the camera or an area where there is high heat in the foreground and any motion from wind could set off the camera. Setting a camera up over water is also a potential cause for this issue. To remedy this situation:

1. Try moving the camera to an area that does not have any of these issues or try changing the sensor level on the menu settings.
2. If the camera continues to take images when there is no subject in them, try placing the camera in an inside environment and aiming at a location where there is no motion.
3. If the camera continues to show issues, then there is probably an electronic component issue. If this is the case, please contact our customer service to send the camera back for repair.

Battery life is shorter than expected

1. Battery life will vary with operating temperature and the number of images taken over time. Typically, the **Aggressor Wireless Cam** will be able to capture several hundred images before the batteries die.
2. Check to make sure you have used new alkaline or lithium batteries. **Bushnell recommends using 12 Energizer® Lithium AA batteries in your Aggressor Wireless Cam to obtain maximum battery life.**

TROUBLESHOOTING

3. Make sure that the power switch was turned to the "On" position and that the camera was not left in "Setup" mode while in the field.
4. Make sure that you are using a good quality name brand SD card in your camera. **Bushnell recommends SanDisk® brand SD Cards up to 32GB** *(Ultra® or Extreme® series for HD video)*. Our experience indicates that poor quality SD cards can sometimes reduce your **Aggressor Wireless Cam** battery life.

Camera stops taking images or won't take images

1. Please make sure that the SD card is not full. If the card is full, the camera will stop taking images.
2. Check the batteries to make sure that they are new alkaline or lithium AA batteries. *See previous notes about short battery life.*
3. Make sure that the camera power switch is in the **"On"** position and not in the **"Off"** or **"Setup"** modes.
4. Make sure that you are using a good quality SD card in your camera. **Bushnell recommends SanDisk® SD Cards up to 32GB** *(Ultra® or Extreme® series for HD video)* .
5. If the SD card has its write protect switch in the lock position, the camera will not take images.
6. If you have used an SD card in another device before inserting it in your **Aggressor Wireless Cam**, you might want to try formatting the card using the "Format" parameter in Setup mode (make sure you have backed up any important files first, as formatting will erase all previous files). In some cases, other devices may change the formatting of the SD card so that it will not work properly with the **Aggressor Wireless Cam**.

Camera won't power up

1. Make sure that you have installed all twelve batteries in the battery compartment, filling all 12 battery spaces with no "gaps".
   Bushnell recommends using 12 Energizer® Lithium AA batteries in your Aggressor Wireless Cam.
2. Make sure that the batteries are installed correctly, observing proper polarity. Always place the negative (flat) end of each battery in contact with the spring side of its slot inside the camera.

TROUBLESHOOTING

3. After moving the switch from **"Off"** to **"Setup"** or **"On"**, make sure that the switch is correctly in position to ensure the proper mode (avoid positions "between" two modes).
4. Do not move the switch directly from **"On"** to **"Setup"**-always move the switch all the way down to **"Off"** first, then back up to **"Setup"**.

Still Photo and/or Video Quality Problems

1. Night photos or videos appear too dark

a. Check the battery indicator icon to see if battery power is full. The flash will stop operating near the end of the battery life.

b. You will get the best results when the subject is within the ideal flash range, no farther than 80' (24m) from the camera. Subjects may appear too dark at greater distances.

c. Please note that when the Capture Number parameter is set higher than "1 Photo", or with very short Interval settings, some images may appear darker than others due to the quick response and rapid retriggering of the camera, allowing less time for the flash to fully recharge before firing again.

d. Make sure "LED Control" in the setup menu is set to "High" to ensure maximum output. You can also try setting "NV Shutter" in the menu to "Low" (slower shutter speed=brighter images, with tradeoff of increased blur if subject moves rapidly).

2. Daytime photos or videos appear too dark

a. Make sure that the camera is not aimed at the sun or other light sources during the day, as this may cause the auto exposure to produce darker results.

3. Night photos or videos appear too bright

a. If the subject is close to the camera (less than10ft/3m), change the LED Control parameter in the Setup Menu to "Medium" or "Low".

4. Daytime photos or videos appear too bright

a. Make sure that the camera is not aimed at the sun or other light sources during the day.

TROUBLESHOOTING

5. Photos with streaked subject

a. In some cases with low lighting conditions and fast moving subjects, the 8MP or 14MP resolution settings may not perform as well as the 3MP setting.

b. If you have multiple images where fast moving subjects produce streaks on the photo, try the 3MP setting instead.

c. Set "NV Shutter" to "High" to minimize motion blur.

6. Red, green or blue color cast

a. Under certain lighting conditions, the sensor can become confused resulting in poor color images.

b. If this is seen on a consistent basis, then the sensor may need servicing. Please contact Bushnell customer service.

7. Short video clips—not recording to the length set

a. Check to make sure that the SD card is not full.

b. Make sure that the camera has good batteries in it. Near the end of the battery life, the camera may choose to record shorter video clips to conserve power.

c. When LED Control is set to "High" and camera is in Video mode, the maximum available video length at night is 15 seconds to avoid potential overheating of batteries and/or electronic components.

Date/Time Stamp not appearing on images

1. Make sure that the **"Time Stamp"** parameter is set to **"On"**.

Photos Do Not Capture Subject of Interest

1. Check the "Sensor Level" (PIR sensitivity) parameter setting. For warm temperature conditions, set the Sensor Level to "High" and for cold weather use, set the sensor for "Low". For variable weather, use "Auto".

2. Try to set your camera up in an area where there is not a heat source in the camera's line of sight.

3. In some cases, setting the camera near water will make the camera take images with no subject in them. Try aiming the camera over ground.

TROUBLESHOOTING

4. Try to avoid setting the camera up on small trees that are prone to being moved by strong winds.
5. Remove any limbs which are right in front of the camera lens.

PIR Sensor LED Flashes/Doesn't Flash

1. When the camera is in the "Setup" mode, a special LED on the front of the camera will flash when it senses motion. This is for setup purposes only and will help the user aim the camera.
2. During use, the LED will not flash when the camera takes an image. This is to help keep the camera hidden from game.

LCD Screen Issues

1. LCD screen powers on but no text is present.

a. After moving the switch from "Off" to "Setup" or "On", make sure that the switch is correctly in position to ensure the proper mode (avoid positions "between" two modes).

b. Do not move the switch directly from "On" to "Setup"-always move the switch all the way down to "Off" first, then back up to "Setup".

2. Screen comes on but then powers off

a. Make sure that you have installed the SD card correctly.

Camera won't retain settings

Make sure that you have been saving the changes to any parameter settings that you made while in Setup mode, by pressing **"OK"** after changing the setting. If you don't save your new setting after changing it, the camera will continue to use the original default setting for that parameter.

Moisture or Ants Inside Camera

1. To ensure humidity or rain is kept out of the camera, secure the DC In plug firmly in place.

2. Ants can be attracted by low level electronic vibrations, and enter through any gaps between the exterior and interior of the camera. Make sure the DC In plug is securely attached.

TROUBLESHOOTING

Field Scan (Time Lapse) not working properly

1. Make sure that the stop and start times of Field Scan "A" and "B" do not overlap (for example, do not set the start time of "B" to 8AM if the stop time of "A" is 10AM).

Camera responds slowly, does not always capture image when triggered

Avoid setting the "Image Recycle" parameter to ON when an SD card with capacity of 16 GB or higher is inserted. The Image Recycle feature requires some time to scan the card and determine the oldest file(s) to delete and replace with the newest files (images). The larger the card, the more time this will take, and the camera may perform significantly slower with high capacity cards if the overwrite feature is activated. There should be no issue using Image Recycle with smaller capacity cards (<16 GB), and the feature is provided to offer a useful option when limited capacity cards are used, or when it it not practical to check the camera and replace (or download and format) the card on a frequent basis.

TECHNICAL SPECIFICATIONS

Image Sensor	3 Megapixel Color CMOS
Maximum Pixel Size	4416x3312 (14MP)
Lens	F = 3.1; FOV=38°; Auto IR-Cut-Remove (at night)
IR-Flash Range	Selectable (Low/Med/High), up to 80'(24m) on High
Display Screen	Color Display: 32x42mm (2.4")
Memory Card	SD or SDHC Card, Maximum capacity 32GB
Internal RAM	64MB
Picture Size	14MP = 4416x3312; 8MP = 3264x2448; 3MP = 1920x1440
Video Size	1280x720 (widescreen) or 640x360 (fullscreen) pixels per frame at 20-30 fps (Day) / 15-20 fps (Night)
PIR sensitivity	Hyper PIR with 4 sensitivity settings: Low/Normal/High/Auto
Operation	User selectable: 24 Hour, Day only, or Night only (based on ambient light level)
Response Time	0.3 second
Triggering Interval	1 sec. - 60 min. programmable
Shooting Numbers	1—3 programmable
Video Length	5-60sec. programmable
Power Supply	12x AA batteries, 9V operating voltage
Stand-by Current	0.15mA (<7mAh/day)
Power Consumption	250mA (+1300mA when all LEDs fire)
Night Vision Shutter Speed	User selectable (High/Med/Low)-affects night (NV) photos/ videos only
Interface	USB; SD card holder; DC In (for optional solar panel)
Security	Strap; ¼-20 attachment
Operating Temperature	-20 - 60°C (Storage temperature: -30 - 70°C)
Operating Humidity	5% - 90%

ONE YEAR LIMITED WARRANTY

Your Bushnell® Aggressor Wireless Cam is warranted to be free of defects in materials and workmanship for one year 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:

1. A check/money order in the amount of $10.00 to cover the cost of postage and handling.
2. Name, address and daytime phone # for product return.
3. An explanation of the defect.
4. Copy of your dated proof of purchase.
5. Do not send in accessories (batteries, SD cards, cables), 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:

Bushnell Outdoor Products
Attn.: Repairs
9200 Cody
Overland Park, Kansas 66214

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Note: this Bushnell Aggressor Wireless Cam is not designed or intended for operation or sale outside of the United States.

Note: the Coverage Viewer webpage (http://www.att.com/maps/edo/att-hplmn-broadband.html) is a useful tool to preview potential locations for your camera, but should not be considered a guarantee of wireless coverage, due to variable environmental conditions, terrain, etc. The successful reception of a test image is the best assurance that your camera will work in the location where you mount it.

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

FCC COMPLIANCE STATEMENT:

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.

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 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.

The device does not contain any user-serviceable parts. Repairs should only be made by an Authorized Bushnell repair center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and will void your warranty and your authority to operate this device under Part 15 regulations.

The shielded interface cable which is provided 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.

FOR END USER LICENSE AGREEMENT AND TERMS/CONDITIONS OF USE, PLEASE VISIT WWW.WIRELESSTROPHYCAM.COM

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For further questions or additional information
please contact:

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