Attack® Attack IR®

Attack® Black Flash®

Cuddeback® Digital

Faster trigger speed!

Operating Manual

FREE

Extended Warranty

with online registration!

Extend the warranty on your Attack series camera to 18 months by registering your purchase at *www.cuddeback.com*.

Click "*Support*" then "*Product Registration*". Activation required within 2 weeks of registration.

About batteries

A. **Cuddeback recommends Rayovac, Duracell, and Energizer alkaline batteries only.** Lesser batteries may not perform as required, especially in cold temperatures.

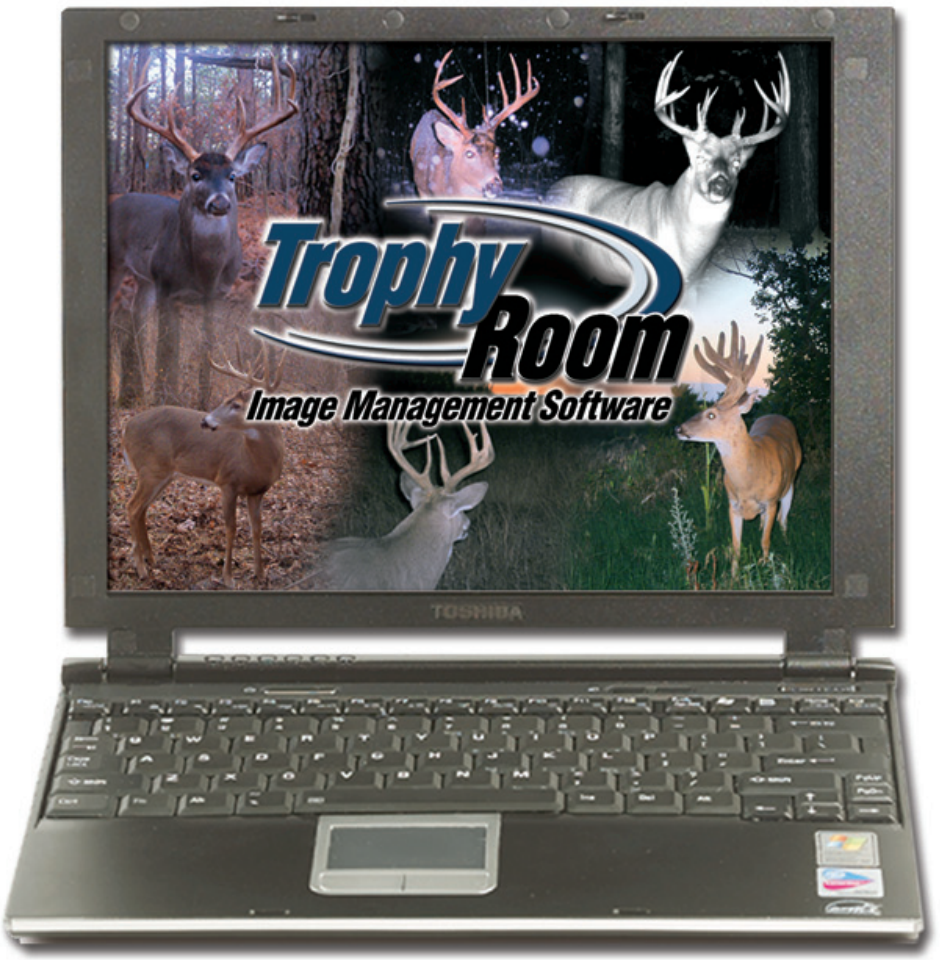
   I. Change all batteries at the same time. Never mix old and new batteries.

   II. Do not mix standard, alkaline, or rechargeable batteries.

   III. Remove all batteries when the camera will not be used for an extended period of time.

Please get the latest camera firmware

Before using this camera we recommend you visit ***www.cuddeback.com*** to get the latest firmware. Latest firmware can improve camera performance.



Make viewing and managing your Cuddeback images easy with Trophy Room – Cuddeback's free PC program

Trophy Room manages your images, and now your Cuddeback camera, too!

*1) **NEW** – includes camera troubleshooting and support tools*

*2) **NEW** - hunting and scouting tips; articles from our pro staff*

*3) **Plus:** 1-click image copy from SD card to your PC. Fast Guard Duty image viewing. Image organization, enhancement, and classification. Complete moon & sun data for each image.*

Trophy Room data screen example

Free download at www.cuddeback.com

See page 23 for more details

CuddeSafe™

CuddeSafe™ Protects your Cuddeback® Attack® series cameras from bears, thieves and the elements!

- *Fits Cuddeback **Attack** series scouting cameras*
- *Heavy-duty, bear-proof metal design*
- *Easy to install (lag-bolts to tree); accepts a padlock*
- *Makes for easier card checking/battery replacement*

Cuddeback® Digital

Need Help? Don't contact your dealer.

Use one of these support options:

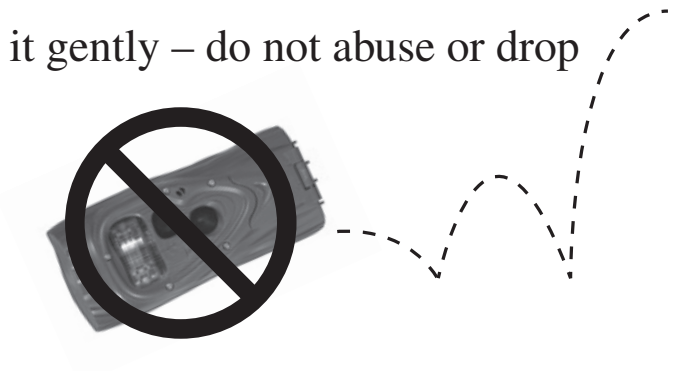
- Download Trophy Room and use its support tools
- Visit www.cuddeback.com for support, help and troubleshooting options
- Email us at support@cuddeback.com
- Call us at (920) 347-3810

The store you purchased this product from does not carry parts nor are they able to service your camera. Call us at the phone number above and our customer service staff will be happy to help you.

Care and treatment

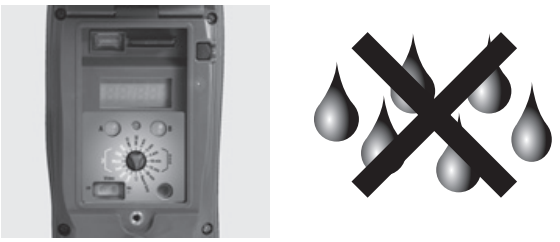
A. Don't abuse your camera. Treat it like the sophisticated piece of electronics that it is.

I. Treat it gently – do not abuse or drop

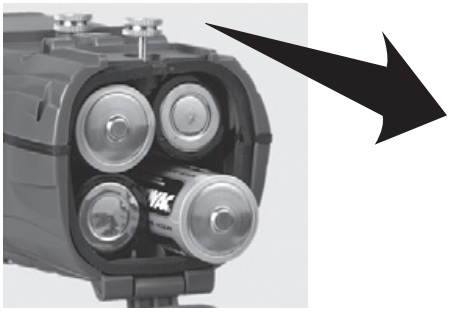


II. Keep SD card dry and never insert wet SD cards into the camera

III. Avoid letting water enter the camera



IV. Remove batteries at the end of the season



Attack® Series
Operating Instructions

NOTE: Unless otherwise noted, all references in this manual to "Attack" also apply to the Attack IR and Attack Black Flash.

What You Need

1) One or more Secure Digital (SD) cards. (See Appendix A for recommendations).

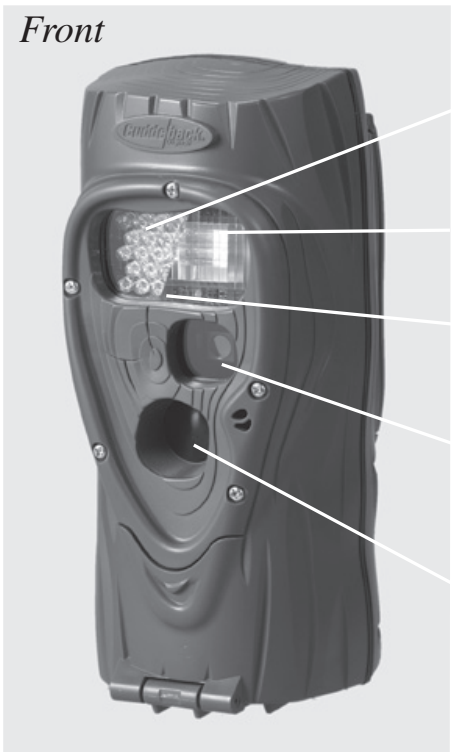
2) Four D cell batteries (we recommend Rayovac® or Duracell® brand batteries).

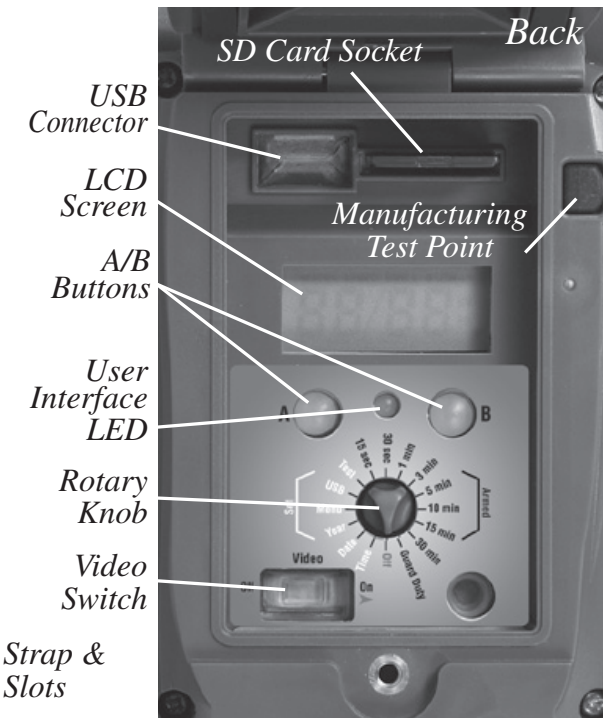
3) When Attack is working it displays an electronic ***"worm"*** on the LCD. This worm scrolls around the LCD to indicate that you must not remove the SD card, must not turn the rotary knob, or must not press any button. Please be patient and wait for the worm to go away before removing the SD card.

"worm"

Step 1 – Familiarize yourself with Attack®

Take a moment to familiarize yourself with Attack's parts.





NOTE: *After the bracket has been mounted to a tree, slide Attack's two thumb screws down into the bracket.*

Step 2 – Installing Batteries and SD Card

1) Turn the rotary knob to the ***OFF*** position.

2) Loosen the battery thumb screw and open the battery compartment door. Install four brand new alkaline D cell batteries. Make sure to observe correct polarity. Close the door and tighten the thumb screw completely.

3) A series of numbers are displayed. These are Attack's hardware and software version numbers.

4) Wait until the LCD display goes blank and the green and red LEDs are off.

5) Install your SD card. Be sure to observe the correct polarity with clipped corner on the card to the right.

Battery Install

SD Card Install

Step 3 – Setting up the Attack®

1) Turn the rotary knob to ***Time*** position, press A and B to set. Time is AM/PM format.

2) Turn the rotary knob to ***Date*** position, press A and B to set.

3) Turn the rotary knob to ***Year*** position, press A and B to set.

4) Later you will read **Step 8 – More Features** for information on the USB and MENU positions.

Step 4 – Attaching Attack® to a Tree

1) We recommend you first try your Attack at home.

2) For optimum detection of deer-sized animals we recommend mounting Attack about 30 to 36 inches off the ground (this is about waist high to slightly higher).

3) For best image quality, install Attack about 10 to 15 feet from where animals are expected. Attack will detect animals at distances from directly in front of the camera to about 50 feet. Note that detection distance varies greatly with air temperature, animal size, and the speed the animal is moving.

4) Attack features our Genius Mounting System. This system allows you to attach the bracket to a tree and then slide Attack on and off the bracket as needed.

5) Once the tree bracket is attached to the tree, make sure both thumb screws on the back of Attack are tightened completely. Then slide Attack onto the bracket.

6) It is best to remove any vegetation and obstructions from Attack's field-of-view that may interfere with Attack's sensor or camera.

7) Aim/align Attack to make sure it is pointed where you expect the animals to be. Aim Attack level with the ground to maximize detection range and performance. You can use Attack's test feature (explained next) to help you determine the detection area.

8) Cuddeback has optional mounting methods available, such as tilt-brackets, bear-resistant boxes, and mounting posts. See your retailer or www.cuddeback.com for details.

Step 5 – Checking Attack®'s Detection Zone

1) Turn the rotary knob to the ***Test*** position. Close the cover and tighten the thumb screw. Put Attack back onto the tree bracket. (Note: there is a more convenient method to enable test mode, see **Step 7 - Checking your Attack for details**).

2) Walk back and forth in front of Attack. The red LED will illuminate when Attack's sensor has detected you. Using this method you can accurately position your Attack as desired.

Step 6 – Arming the Attack®

Turn the rotary knob to one of the ***Armed*** delay settings. These settings represent the amount of time Attack will wait before it will take another image. This dwell time prevents multiple images of the same animal. Here is our recommendation for the various ***Armed*** settings:

a. Under 30 seconds – game trails
b. 1 and 3 minutes – scrapes
c 5 to 30 minutes – food plots or feeders

When first armed, Attack will display the indicated delay for 5 seconds and then begin counting down from 45 to 0. When the counter reaches 0, Attack will arm and be ready to record images.

When Attack detects a subject and takes a picture a ***"worm"*** will be displayed and the LED will flash red and green – do not remove the SD card until the LED is OFF.

After the image is saved to the SD card the LCD will display the delay setting and begin counting down. Once the counter reaches 0, Attack is ready to record the next image.

Step 7 – Checking Attack®

When you check Attack it is ***not*** necessary to turn the rotary knob. Instead, press the A or B button to temporarily suspend ***Armed*** mode and view pertinent information, such as the number of images on the SD card and battery level. Each time you press the A or B button new information will be displayed. Here is the sequence of information that is displayed each time the A or B button is pressed.

1) Images on SD card. Note the ARMED, DWELL, and IMAGES icons are displayed.
2) Free Space on SD card in MB. Note that ARMED and DWELL icons are displayed.
3) Battery Level as a percentage. For example, **bt:99** means there is 99% battery power left.
4) Time
5) Date
6) Year
7) ***Test*** indicates Attack is in Test mode and will illuminate the red Test LED when activity is sensed.
8) Pressing A or B again will Arm the camera and the current delay setting will be displayed.

You can leave Attack in any of the states 1 thru 7 and Attack will automatically re-arm in about 5 minutes. This allows you to close the cover and leave the area without triggering an image.

Step 8 – More Features

Video Mode

Attack can be set to record video. Attack records video day only. Attack IR and Attack Black Flash record video day and night. Video recording is enabled by moving the Video Switch to ON. To disable video recording move the switch to OFF. Attack ***will*** take an image before it begins recording the video, thus you do not give up images to get video.
Note – video length can be set to 10, 20, or 30 seconds. See page 12 for details.

Menu Position

Turn the rotary knob to the MENU position to perform various activities. Press A to advance to the next menu item, press B to activate the displayed menu action.

1) **Battery Level** – the battery level is displayed in the format **bt:99**, which is a percentage of remaining battery power. Press the A button to advance to the next menu item.
2) **CLr** (Clear SD card) – This menu allows you to clear all images and content on the SD card. Press and hold B to clear the card. The ***worm*** will appear and the LEDs will flash RED. When finished, the LCD will display the amount of space on the SD card in MBs. Press A to advance to the next menu item.
3) **Pic** – Lets you take a test picture. Press B to take a picture. Press A to advance to the next menu item.

4) Attack: **FLSH** – This menu allows you to test Attack's flash. Press B to charge the flash circuit. The LCD will begin counting down from 45. After the 45 second count down the LED will flash green to indicate that the flash is charged. Press B again to fire the flash **(CAUTION – light output from the flash is very bright!).**

   Attack IR/Attack Black Flash: **LEd** (IR LEDs) – This menu allows you to test Attack IR's IR LEDs and measure the battery strength. Press B to test the infrared LEDs. The LEDs will be driven from 33% maximum power to 99% maximum power. The test will stop when the batteries do not have sufficient power to drive the LEDs or at 99%. If the batteries are depleted, FAIL will be displayed. If the reading is below 99% you may want to change the batteries to maximize the illumination range.

5) **PO:O** (Parameter Programming) – This setting allows you to change the setting for the camera. See the next section for details.

6) **StAt** (Statistical Data) – Press B to display Activation Date, Armed Days, and Image Counter. Activation Date is the first day you used the camera. Armed Days is how many days that camera has been used. Image Counter is the total number of images taken with the camera.

7) **LOAd** – Lets you install new firmware. We may update the Attack firmware to improve its performance. If a firmware update is required you will need to download a firmware file from our website. Instructions will be provided with the firmware.

Please see www.cuddeback.com for details. We recommend you check our website for updates at the beginning of your scouting season.

8) Firmware Version – 4 numbers will be displayed, such as 0200. This is the firmware version.
Turn the rotary knob to a new setting or press A to return to the battery level display.

Setting Attack Parameters

Some Attack features can be changed by the user. Attack can also be programmed to become a time lapse camera. *(Note - In the text that follows the underlined items are default settings. For most users these settings are not required and you can leave PO set to 0).*

Step 0: Enable or disable parameters OR select Time Lapse Operation

First you must enable parameters. This is done by:

1. Rotate knob to MENU
2. Press A until P0:0 is displayed. P0 indicates ***Parameter Zero,*** which is the parameter on/off control.
3. When P0:0 is displayed, press the B key to select from these 3 options:

   P0:0 = parameters are OFF and set to defaults (recommended for most users)

   P0:1 = parameters are ON and can be changed as desired

   P0:tL = time lapse mode. Attack is put into time lapse mode as explained later.

Step 1: Press the A key to display P1 (strobe flash power)

P1 controls the Attack flash power. *(This setting is ignored on the Attack IR/Black Flash and will be displayed as P1:--)*

The available settings are selected by pressing the B key:

P1:1 = 10 foot flash range (best setting for indoor use)

P1:2 = 20 foot flash range

P1:3 = 30 foot flash range (best setting for general use)

P1:4 = 40+ foot flash range (best setting for fields)

Step 2: Press the A key to display P2 (video length)

P2 controls the Attack video length.

The available settings are selected by pressing the B key:

P2:1 = 10 second video

P2:2 = 20 second video

P2:3 = 30 second video

Step 3: Press the A key to display P3 (video operating time)

P3 controls the Attack IR/Black Flash video operating time *(This setting is ignored on the Attack and will be displayed as P3:--)*

The available settings are selected by pressing the B key:

P3:1 = record videos only at night

P3:2 = record videos only during the day

P3:3 = record videos during day & night

Step 4: Press the A key to display P4 (operating time)

P4 controls the time Attack will take pictures.

The available settings are selected by pressing the B key:

P4:1 = operate only at night

P4:2 = operate only during the day

P4:3 = operate during day & night

Step 5: Press the A key to display P5 (quality)

P5 controls the Attack image and video quality.

The available settings are selected by pressing the B key:

P5:1 = standard resolution 5MP (small file) images/video

P5:2 = high quality 5MP (large file) images/video

Note – image quality is improved by optimizing the JPG and VIDEO compression algorithm. Images will be clearer when zooming, but file size is significantly increased. Most users will not benefit from this feature, which is mainly intended for research professionals that require the best image quality possible.

Step 6: Press the A key to display P6 (camera ID)

P6 is a camera identification number that is printed onto the image. Use the B key to set a value from 0 thru 99. If 0 is selected the ID number will not be printed.

Step 7: Press the A key to display P7 (FAP Mode)

P7 enables or disables a super fast camera delay, called Fast-as-Possible, or FAP. When P7 is on, the camera will rearm immediately after the image or video is saved to the SD card. This can result in a camera delay in the 1 to 2 second range. When P7 is on, the 5 second camera delay position becomes FAP. The remaining dial positions are not affected. **Note – using FAP mode can result in blank images.**

Press B to enable or disable FAP:

P7:0 = FAP mode disabled

P7:1 = FAP mode enabled

Time Lapse Mode (PO:=tL)

Time Lapse Mode is enabled when Parameter 0 is set to tL.

In Time Lapse Mode pictures are taken at a preset interval. For example, if you set the time lapse interval to 3 hours, the camera will take a picture every 3 hours. By default the time lapse images are taken day and night. You can use P4 to control day/night operation.

Once P0 is set to tL you use the Rotary Knob to select the desired time lapse interval. Time lapse is started by rotating the knob to one of the ARMed settings. When armed, the LCD will display LPSE and the interval to indicate that the camera is operating in Time Lapse Mode.

The available settings are selected with the rotary knob:

05	sec	⇨	1	minute interval
15	sec	⇨	15	minute interval
30	sec	⇨	30	minute interval
1	min	⇨	1	hour interval
3	min	⇨	3	hour interval
5	min	⇨	6	hour interval
10	min	⇨	12	hour interval
30	min	⇨	24	hour interval

When Time Lapse Mode is enabled the Attack will NOT function as a motion sensor camera. User can adjust P1 (strobe power), P4 (operating time), and P5 (image quality). Videos will be recorded if the video switch is on.

To disable Time Lapse Mode set P0 to P0:0 or P0:1.

USB Position

Attack can copy images from the SD card to a USB flash drive. This allows you to quickly retrieve your images and take them home with you.

NOTE: If the LCD displays EC:30 the USB device is either not plugged in correctly or is not compatible with Attack. We recommend using the USB drive available at www.cuddeback.com.

Follow these steps to copy images from SD card to USB device:

1) Turn the rotary knob to the USB position. **USB** will be displayed on the LCD.
2) Install a compatible USB flash drive (see appendix A).
3) Press A to display COPY.
4) Press B to begin the transfer of images from the SD card to the USB device. The percentage of files copied will be displayed during the copy process. Please wait while the images are copied.
5) Once the copy process is complete all images on the SD card will automatically be erased, and **USB** will be displayed.
6) If you need to interrupt and cancel this operation, press and HOLD B for 3 seconds. The operation will be cancelled and the images on the SD card and USB device will remain.

Follow these steps to erase all content on the USB device:

1) Turn the rotary knob to the USB position. **USB** will be displayed on the LCD.
2) Install a compatible USB flash drive (see appendix A).
3) Press A twice to display **CLr**.
4) Press and hold B to clear the USB device. **CAUTION** - Once the device is cleared it cannot be restored.

Guard Duty

Attack features an innovative time lapse photography mode we call Guard Duty. When Guard Duty is enabled Attack will take a picture every 12 seconds and save the images onto the SD card. Guard Duty allows you to continuously monitor a field or hunting location and then view everything that happened. In practice, Guard Duty can compress an entire day of activity into a ten minute viewing experience.

- To enable Guard Duty turn the rotary knob to the Guard Duty position. Guard Duty will automatically arm after a 45 second countdown.
- Guard Duty will only take images during daylight; it will not record images at night.
- At night, Guard Duty mode is disabled, but Attack will still take pictures of animals detected with its motion sensor. In this mode, Attack will use a camera delay of 15 seconds at night.

- Guard Duty images are 1.3 MP and are saved in the folder DCIM\200CUDDY. Images from each day will be saved in a separate folder.
- Guard Duty will record 3600 images every 10 hours. In a week Guard Duty can record over 10,000 images. This requires a large SD card. We recommend an 8GB card or larger.
- To check Attack when in Guard Duty mode press A. The check process is similar to checking Attack when in Armed mode.
- Cuddeback's Trophy Room software program can view a day's worth of Guard Duty images in a few minutes. Visit cuddeback.com to download a free version of Trophy Room. Guard Duty images can typically be viewed in less than 10 minutes on your PC.
- Due to the high number of images saved we do not recommend using a field viewer to view Guard Duty images. You will need to use a PC to view Guard Duty images.
- Battery life while in Guard Duty mode will be less than in other operating modes.

No Card Mode - Using Attack® Without an SD Card

When Attack is used without an SD card, images are stored in Attack's internal image memory. Attack features an internal memory of about 120 MB. This will allow storage of up to 120 images. Images can be transferred from internal memory to an SD card or USB flash device.

Transfer to SD card: If you use Attack without an SD card, follow these steps to transfer the images from the internal memory to an SD card.

1) If Attack is not armed, turn the rotary knob to any of the Armed positions.
2) If Attack is armed, press A to display the number of images in internal memory.
3) Insert your SD card into Attack.
4) Press A. The amount of free space on the SD card will be displayed.
5) Press A to initiate the transfer. Images saved in internal memory will be copied to the SD card. As they are being copied the ***worm*** will appear and the number of images remaining to be transferred will be displayed on the LCD.
6) When the count reaches 0 the transfer is complete and all images on the internal memory are erased.
7) To stop the transfer before it has finished, press and hold B.

Transfer to USB flash device: If you use Attack without an SD card, follow these steps to transfer the images from the internal memory to a USB flash device.

1) If Attack is armed, press A to display the number of images in internal memory.
2) Insert your USB device into the USB connector.
3) Turn the rotary knob to the USB position.
   USB will be displayed.

4) Press B to initiate the transfer. Images saved in internal memory will be copied to the USB device. As they are being copied the ***worm*** will appear and the number of images remaining will be displayed on the LCD.
5) When the count reaches 0 the transfer is complete and all images on the internal memory are erased.
6) To stop the transfer before it has finished, press and hold B.

Battery Life and Battery Low Warning

Battery life in Attack will vary depending upon battery quality, ambient temperature, the number of images taken, how long Attack has been operating, and other factors. Battery life you get may be more or less than these numbers depending on the circumstances.

Attack® – 10,000 images or 12 months, depending on usage.

Attack IR® and Attack® Black Flash® – 50,000 images or 12 months, depending on usage.

Note - using video mode greatly reduces battery life.

Guard Duty Mode – 80,000 images or about 1 month of use.

Replace Attack batteries when:

1) The **BLOW** icon appears on the LCD.

   When batteries are below 10% the battery level will flash until you press A or B key to continue.
2) When the displayed battery level is **bt:10** or **bt:00**.

3) When Attack does not appear to operate correctly. In some cases the batteries may be too low to turn on the LCD or BLOW icon.

Attack will attempt to use every amount of power from the batteries. Attack will alter its performance to prevent erroneous operation when battery voltage is very low. Battery Squeeze is enabled when battery voltage is 25% or less. Battery Squeeze will disable videos and extend the camera delay to 1 minute at night and 15 seconds for day. This allows the batteries to recover and will extend operating time. (note – flash cameras extend the night delay to 2 minutes to provide sufficient time for the flash to charge).

Viewing Images

You will need an external viewing device or computer to view images. First, remove the SD card from the camera. Make sure to only remove the SD card when the ***worm*** is not visible. Here is a list of some viewing options.

1) You can view the images with an optional viewer or a point-and-shoot camera that is able to read Attack images **(Note: not all SD based cameras can view Attack images, please test any camera before purchasing)**.

2) Replace the SD card with a fresh SD card and take the original SD card with you to view on your PC or other device.

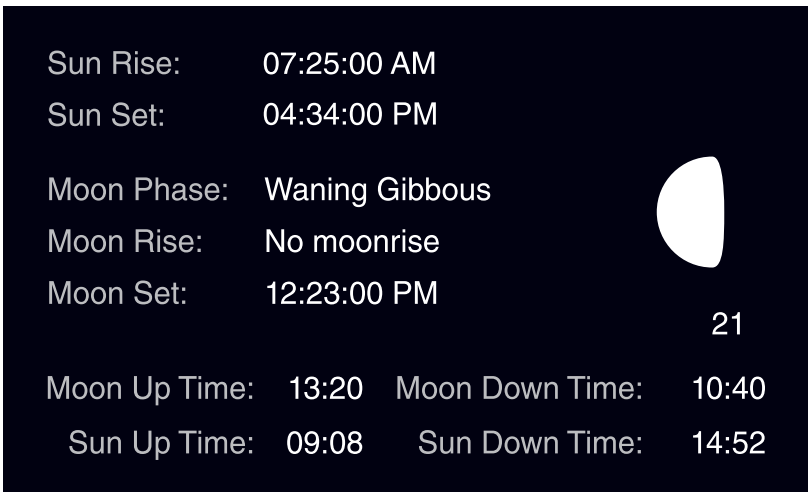
3) Cuddeback's CuddeView viewer will allow you to view the images, copy the images to a second SD card and erase the images from the SD card. You can then put the original SD card back into Attack. CuddeView allows you to transfer images from multiple cameras to a single SD card. Go to www.cuddeback.com for more information on CuddeView. (Note: CuddeView may not be able to copy all the images taken in Guard Duty mode. If you are using Guard Duty we recommend you view the images on a computer.)

Use Windows PC to Manage Cuddeback Images with Trophy Room

Trophy Room software makes it easy to manage your Cuddeback images.

Trophy Room

1) Automatically copies images from your SD card to your PC and organizes them by year and date.
2) Allows you to rename each folder making it easy to find your images.
3) Displays sun and moon data for each image, including moon phase, moon rise and set, sunrise and set, and moon and sun position in the sky at the time the image was taken.



Trophy Room data screen example

4) Categorizes images as buck, doe, fawn, bear, etc. There are 28 categories to select from. For whitetail deer you can enter point count and give deer a name to allow easy monitoring of trophy animals.
5) Automatically calculates the buck/doe/fawn ratios based upon your images.
6) Includes ***CuddeCharts*** with which you can analyze your images to determine peak movement patterns based upon sun and moon phase and position.

7) Includes ***Crystal Ball*** with which you can use the data you've collected and analyzed with CuddeCharts to predict future activity. Think of this as the traditional moon tables, only tailored to you.

8) Allows you to rapidly view Cuddeback images taken in Guard Duty mode.

9) Is **FREE** and works with all Cuddeback cameras. You can download it at www.cuddeback.com.

Appendix A

SD Card Requirements

SD cards are sized in GB (Gigabytes); the bigger the number the more images that can be saved on the card. Attack will work with card sizes from 1 GB to 32 GB. See table on page 25.

We have extensively tested Attack with most major brands of SD cards, however, low quality cards are available that may not operate in Attack. We recommend you use SanDisk brand cards which are readily available at stores that sell cameras. You can also order cards directly from Cuddeback. See www.cuddeback.com for information.

USB Devices

Attack will only function with small form factor USB Flash Devices. Compatible USB Flash Drives are available direct from Cuddeback. For more information go to www.cuddeback.com.

This table shows approximately how many images and videos fit on a SD card:

Card & Video Mode		Attack *(flash)*		Attack IR & Attack Black Flash		Attack Series *(all 3 models)*
Card Size	Video	Images	Videos*	Images	Videos**	Guard Duty Mode On
2 GB	Off	2000	0	2000	0	5 days
2 GB	On	1000	250	400	400	n/a
4 GB	Off	4000	0	4000	0	10 days
4 GB	On	2000	500	800	800	n/a
8 GB	Off	8000	0	8000	0	20 days
8 GB	On	4000	1000	1600	1600	n/a
16 GB	Off	16000	0	16000	0	40 days
16 GB	On	8000	2000	3200	3200	n/a

*Assumes that 75% of images are at night when the videos are not recorded.

**With the Attack IR every image will also record a video.

For this chart we assume each JPG is 1MB and each video is 4MB.
Your actual JPG and video file sizes will be different.

Assumes a 12 hour day with 3600 images taken per day. Video mode is always disabled in Guard Duty mode. For this chart we assume each Guard Duty image is 100KB.

GeniusMount™
Post Mount

For use with Attack® series scouting cameras

Put your Cuddeback virtually anywhere! No tree needed!

Set-up is simple as 1, 2, 3...

Perfect for placing cameras in fields, food plots, swamps or where trees aren't quite right.

1 *Insert Post Mount into firm ground.*

2

Insert 2 thumb screws into bracket

3

Adjust camera angle and tighten

GeniusMount™
Pan & Tilt Mount

For use with Attack® series scouting cameras

Aim your camera in virtually any direction – up, down or all around!

Insert 2 thumb screws into bracket

Lockable – cable lock to tree

GeniusMount™
Tilt Mount

For use with Attack® series scouting cameras

Put a Genius Tilt Mount bracket in all your favorite hunting spots!

Slide on/off

Tilt adjust

Lockable

GeniusMount™
Combo Kit

Genius Combo Kit – includes 2 mounts!

- Pan & Tilt Mount
- Tilt Mount
- Lock Clip
- Universal Plate (works with all cameras)
- Mounting Screws

Genius Pan & Tilt Mount

Genius Tilt Mount

DON'T GET BLANKED!

The *Attack*® begins!

www.cuddeback.com

Cuddeback® Digital

More deer, fewer blanks!

Non Typical, Inc., P.O. Box 10447, Green Bay, WI 54307-0447
920-347-3810