



GHOST™ HD16
MODEL 3750



GHOST™ HD16 BLACK
MODEL 3751



GHOST™ HD20
MODEL 3755

GHOST™ GAME CAMERA SERIES INSTRUCTION MANUAL



PLEASE READ CAREFULLY BEFORE USE!



**IMPORTANT – DO NOT TAKE BACK TO RETAIL!
ANY QUESTIONS, OUR CUSTOMER SERVICE IS HERE TO HELP!**



CALL

810-626-3026



LIVECHATWITHAGENT

www.hawk hunting.com



EMAIL

contact@hawk hunting.com

Additional Information on this product and answers to frequently asked questions can be found at
www.hawk hunting.com.

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INTRODUCTION

Congratulations on purchasing one of the smallest and most advanced game cameras on the market! With HAWK® SYNC™ control app, the date and time on your Ghost™ Camera is automatically set, leaving only simplified camera or video settings options to the user. Connect your Ghost™ Camera to the SYNC™ App with Bluetooth® to check overall camera status, SD card capacity, battery levels and even capture a test preview photo. The HAWK® SYNC™ App is scouting & camera set-up made easy!

IMPORTANT SAFETY INFORMATION

Read all warnings, precautions and safety/operating instructions prior to operating this product. Keep this instruction manual for future reference.

WARNING

FAILURE TO FOLLOW ALL WARNINGS AND INSTRUCTIONS COULD RESULT IN ELECTRIC SHOCK, FIRE, PRODUCT DAMAGE, SERIOUS INJURY OR DEATH.

- Completely dry off unit and hands before opening battery door. When battery door is open, DO NOT expose unit to rain, moisture or water/snow.
- Never submerge unit in water.
- **NEVER OPEN OR REMOVE CASE HOUSING COVER! Dangerous voltages inside housing!** There are no user serviceable parts inside case housing!
- **NEVER INSTALL DIFFERENT TYPES OF BATTERIES IN THIS PRODUCT AT SAME TIME!** Do not mix old and new batteries and do not mix battery types. Use all lithium or all alkaline batteries and install according to correct polarization. Failure to follow may result in damage to product, leaking/exploding batteries, fire or personal injury.
- Do not expose camera to extreme heat! **Recommended operating temperature range -4°F to 140°F.** Do not leave in direct sunlight inside a vehicle or in other enclosed area for an extended period of time.
- Only use accessories recommended by HAWK®.
- **DO NOT MODIFY OR ALTER THIS PRODUCT IN ANYWAY!** Alterations or modifications can make product unsafe or damage product and constitutes a misuse which voids warranty. Do not make repairs, replace parts, alter, add or attach anything to it except if explicitly authorized in writing by HAWK®.

CARE & PRECAUTIONS

CLEANING CAMERA:

Never use window cleaner or other chemical cleaners to clean any part of the camera! Only use water dampened cloth to gently clean and use towel to dry.

TRANSPORTING:

Handle with care. Do not drop, strongly shake or impact camera as damage may occur to internal components or damage its water proof housing.

USING CAMERA:

Always keep DC-IN Cover Plug in place when not in use and assure all covers and battery housing are completely closed.

STORAGE:

Keep Camera in "OFF" position and remove batteries when Camera is not being used for an extended period of time. Store indoors away from extreme heat.

BLUETOOTH OPERATION COMPLIANCE

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

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

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

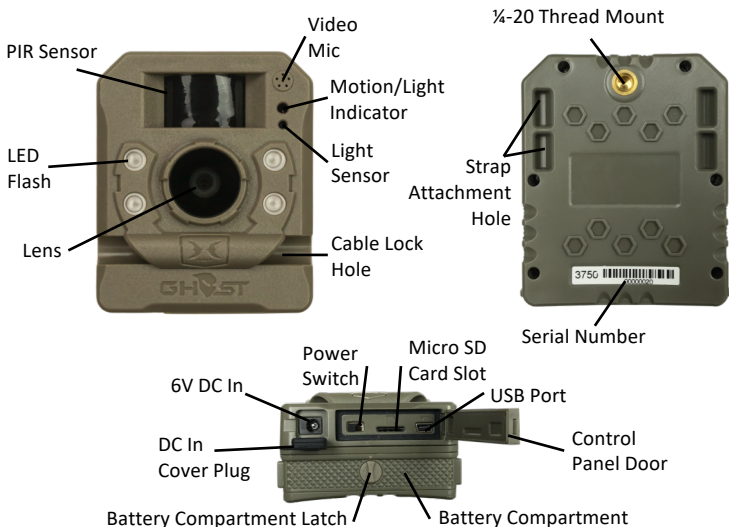
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.



CAMERA POWER CONTROLS:

- Open Control Panel for power controls.
 - Slide control to 'ON' position to turn power on camera.
 - Slide control to 'OFF' position to turn camera power off.
- Close Control Panel



BATTERY AND MICRO SD CARD INSTALLATION

BATTERY REQUIREMENTS AND INSTALLATION (BATTERIES NOT INCLUDED):

- HAWK® recommends using 4 new Lithium AA (Energizer® brand) batteries to obtain maximum battery life or 4 new alkaline AA batteries. NiMH Rechargeable batteries are not recommended, as they produce lower voltage that can cause operational issues.

⚠ WARNING

**NEVER INSTALL DIFFERENT TYPES OF BATTERIES IN THIS PRODUCT AT SAME TIME.
DO NOT STORE BATTERIES IN CAMERA WHEN NOT ACTIVELY USING CAMERA
Do not mix old and new batteries and do not mix battery types.
DO NOT Mix Lithium and Alkaline Batteries
Install according to correct polarization (+/-)
Failure to follow any of these above warnings may result in damage to product,
leaking/exploding batteries, fire or personal injury.**



1. Unlock Battery Tray – Turn Latch Horizontal



2. Pullout Battery Tray



3. Insert 4 new AA Batteries (not included) into tray according to correct polarization (+/-) and close battery Tray.



4. Lock Battery Tray – Turn Latch Vertical

MICRO SD CARD REQUIREMENTS AND INSTALLATION:

(MICRO SD CARD NOT INCLUDED)

- HAWK® recommends using a new, blank SandDisk® Class 4 or faster Micro SD Card.
**Older/Slower Micro DS cards can slow down camera performance and affect picture quality.*
- Micro SD Card Maximum Capacity:
 - Ghost™ HD16 Game Camera – 32GB Micro SD
 - Ghost™ HD16 Black Game Camera – 32GB Micro SD
 - Ghost™ HD20 Game Camera – 128GB Micro SD



Micro SD
(not included)



1. Open Controls Compartment Door. With Camera in 'OFF' Position Insert Micro SD Card into Micro SD Slot. A "click" sound indicates card is installed correctly.



2. Close Controls Compartment Door.

SETUP AND USE

DEFAULT SETTINGS – OUT OF BOX USE:

- HAWK® Ghost™ Cam ships from the factory with the following default settings and can be used prior to downloading and using HAWK® SYNC™ APP.

FACTORY SETTINGS

- 1 Photo Per Trigger
- 10 Second Interval Delay
- NOTE: Date and Time will not be accurate

OUT OF BOX USE

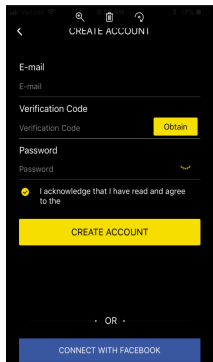
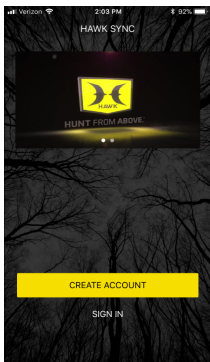
- Follow Battery & Micro SD Card Installation Steps
- Open Control Panel and Turn Camera to 'On' Position. Close control panel.
- Red LED on front of camera will flash several times and then stop.
- Camera is Ready to take pictures with factory settings.

DOWNLOAD HAWK® SYNC™ APP:

- Camera Date / Time / Settings are controlled using HAWK® SYNC™ APP.
- SYNC™ APP works with all Apple® IOS and Android® Phone and Tablet Devices (not included).
- Download using Apple® APP store or Google® play or visit www.hawk hunting.com for further download links and instructions.

CREATE ACCOUNT:

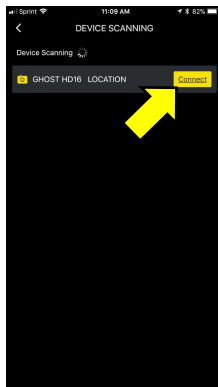
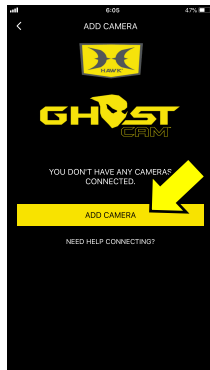
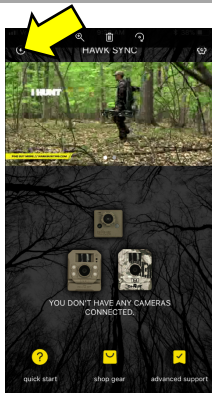
- Open HAWK® SYNC™ APP
- Select 'CREATE ACCOUNT'
- Enter email address and Select 'Obtain' for 'Verification Code' to be sent to your email address.
- Enter 'Verification Code' and enter 'Password'.
- Review 'Terms and Agreement' and Select 'CREATE ACCOUNT'
- *Alternative methods to Create Account: Connect with FACEBOOK*



SETUP AND USE

CONNECTING CAMERA(S):

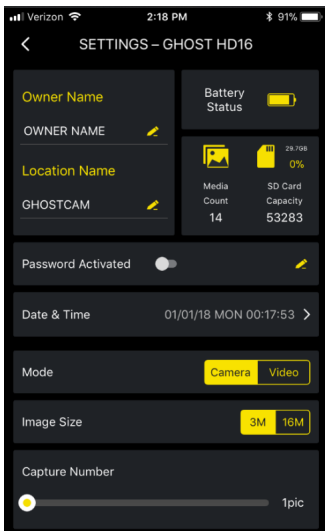
1. Make sure batteries and Micro SD Card are installed correctly within camera.
2. Open Control Panel, 'Turn On' Camera and close control panel.
3. Make sure 'Bluetooth' in your phone/tablet settings is 'turned on'.
4. Open HAWK® SYNC™ APP and 'SIGN IN' to APP.
5. Press '+' sign in top left corner to find camera.
6. Press 'ADD CAMERA' to find device.
7. Camera(s) will pop up by defaulted name, click Connect on right side of screen.



SETUP AND USE

CUSTOMIZE SETTINGS AND REGISTERING CAMERA:

- **Owner Name** – Add custom name to help distinguish the camera owner. [10 digits, letters or numbers only – no special characters]
- **Location Name** – Add custom name to help distinguish the location of camera surveillance. The name you use will show up your SYNC™ APP 'My Camera' list. This name will show up on the 'time stamp' on the bottom of each camera and will also help with sorting your list of sync'd cameras. [10 digits, letters or numbers only – no special characters]
- **Battery Status** – Shows power level of installed batteries
- **Media Count** – Shows number of photos and/or videos saved on the installed Micro SD Card
- **SD Card Capacity** – Top number shows GB capacity of installed Micro SD Card and percentage capacity full. Bottom number is an estimate of how many total photos/videos can be saved on installed Micro SD Card under current photo or video setting.
- **Password Activated** – Camera ships default 'Off'. If you desire extra security, turn 'On' and set custom password. CAUTION: REMEMBER AND/OR SAVE YOUR PASSWORD IN SAFE PLACE. This Password option is designed to deter thieves and the only way to recover your password will be to ship camera back to Hawk® Customer Service. CAUTION: AFTER SETTING PASSWORD, NO USER WILL BE ABLE TO CONNECT CAMERA TO HAWK® SYNC™ APP TO CONTROL SETTINGS WITHOUT THE CORRECT PASSWORD.
- **Date & Time** – Automatically sync's from your smart device (phone/tablet) settings each time connected via SYNC™ APP; no manual user entry needed.
- **Clear SD Card** – Use this option to format and wipe clean your Micro SD Card. CAUTION: DATA ON MICRO SD CARD CANNOT BE RECOVERED OR RESTORED ONCE CLEARED
- **Camera Registration** – The bottom of camera settings page will show your registration status. If 'NOT REGISTERED' is displayed, please click settings and complete your camera registration to preserve your camera WARRANTY and also could help track down camera in any unfortunate theft situation.



SETUP AND USE

CAMERA MODE SETTINGS:

- **Image Size** – Choose from native [lower] resolution or digitally enhanced [higher] resolution. The lower native resolution will save space on Micro SD Card, allow the camera to process faster and in many cases photo detail will be more than sufficient for viewing on most computer screens and smaller devices. The higher digitally enhanced resolution is better for viewing photos on larger screens (TV's) or for printing large scale.
- **Capture Number** – Number of images camera takes consecutively with each trigger event.
- **Delay Interval** – Time allowed between each camera trigger event. A higher delay interval is used to limit excessive photos of same animals in each event in motion detection range; especially, for example, in stationary feeding locations. A lower delay interval is used to gather as many photos as possible in each event in motion detection range; especially, for example, in quick activity situations like on animal trails or during fast pace rut activity.

ADVANCED CAMERA SETTINGS FOR MODELS 3750, 3571:

- **Time Stamp** – Default 'On'. This is the information bar that appears on the bottom of every photo.
 - **Sync Coordinate** – Default 'Off'. Turn 'On' to store GPS location information to be saved in photo properties and will allow you to see where your camera is positioned or photo is taken via Geotag photos online (www.geotag.com)
 - **Field Scan** – Default 'Off'. Allows camera to take Picture every so many minutes between two different times
 - Select Scan Interval – Amount of time in between each Picture
 - Select Start Time for Scan A
 - Select End Time for Scan A
 - Select Start Time for Scan B
 - Select End Time for Scan B
 - Select Save
- **MAKE SURE TO SELECT 'SAVE' AFTER CHANGING FIELD SCAN SETTINGS**
- **Default Set** – Resets All Camera Settings back to Original Manufacturer Default Settings.

ADVANCED CAMERA SETTINGS FOR MODEL 3755:

- **NV Image** – Options include:
 - Max Distance** – Longer shutter for illumination (could result in more blurry images with motion)
 - Fast Motion** – Shorter shutter to limit blur with motion (could result in darker images)
 - Close Distance** – Optimized shutter for close range operation
- **Camera Mode** – Default operation '24HRS'. Can also choose between 'Day Only' or 'Night Only' camera operation.
- **Sensor Level** – Default 'Auto'. Selecting 'High' will result in more sensitivity in motion detection and could result in more trigger events. Selecting 'Low' will reduce sensitivity to motion detection and could result in less trigger events. Auto is most common – 'High' or 'Low' use in extreme temperature or motion environments – reference troubleshooting for examples.

VIDEO MODE SETTINGS:

- **Video Size** – Choose from 640x480 [lower] resolution or 1280x720 [higher] resolution.
- **Video Length** – Length of video recorded with each trigger event.

Dynamic Video - Default 'Off'. Dynamic Video setting will override manual 'Video Length' setting and will continue recording video for entire period motion is detected in video range. If you desire Dynamic Video, turn 'On'. CAUTION: DYNAMIC VIDEO CAN GREATLY REDUCE BATTERY POWER DURING SITUATIONS WITH A LOT OF ACTIVITY RECORDING.

- **Delay Interval** – Time allowed between each camera trigger event. A higher delay interval is used to limit excessive videos of same animals in each event in motion detection range; especially, for example, in stationary feeding locations. A lower delay interval is used to gather as many videos as possible in each event in motion detection range; especially, for example, in quick activity situations like on animal trails or during fast pace rut activity. TIP: WHEN IN VIDEO MODE FOR QUICK ACTIVITY SITUATIONS, IT MAY BE BETTER TO USE A LONGER VIDEO LENGTH INSTEAD OF SHORT INTERVALS, AS STORING VIDEOS LEADS TO LONGER 'CAMERA RECOVERY TIME' THAN STORING PHOTOS.

ADVANCED VIDEO SETTINGS FOR MODELS 3750, 3571:

- **Time Stamp** – Default 'On'. This is the information bar that appears on the bottom of every video.
- **Sync Coordinate** – Default 'Off'. Turn 'On' to store GPS location information to be saved in video properties and will allow you to see where your camera is positioned or photo is taken via Geotag photos online (www.geoimgr.com) advanced searching and sorting options.
- **Field Scan** – Default 'Off'. Allows camera to take Video every so many minutes between two different times
 - Select Scan Interval – Amount of time in between each Video
 - Select Start Time for Scan A
 - Select End Time for Scan A
 - Select Start Time for Scan B
 - Select End Time for Scan B
 - Select Save

****MAKE SURE TO SELECT 'SAVE' AFTER CHANGING FIELD SCAN SETTINGS**

- **Default Set** – Resets All Camera Settings back to Original Manufacturer Default Settings

ADVANCED VIDEO SETTINGS FOR MODEL 3755:

- **Camera Mode** – Default operation '24HRS'. Can also choose between 'Day Only' or 'Night Only' camera operation.
- **Sensor Level** – Default 'Auto'. Selecting 'High' will result in more sensitivity in motion detection and could result in more trigger events. Selecting 'Low' will reduce sensitivity to motion detection and could result in less trigger events. Auto is most common – 'High' or 'Low' use in extreme temperature or motion environments – reference troubleshooting for examples.

SETUP AND USE

MOTION AND VIEW TEST:

- Select Motion and View Test
- View Test
 - Press Test Photo – This shows a thumbnail picture of what your camera is seeing. Allows quick check of camera to assure it is in correct position.
- Motion Test
 - Turn on Motion Test by sliding bar to on position
 - When camera PIR sensor detects motion, a red dot will appear in target area. Also red LED on camera will light up.
 - This shows you range and field of view PIR sensor will detect movement.

ATTACHING CAMERA STRAP:

- Loop short Camera Strap through side slot and place buckle through webbing loop.
- Loop long Camera Strap through opposite side slot and place webbing through loop.
- Thread buckle and adjust webbing for desired anchoring size.



CAMERA PLACEMENT AND USE:

- Place Camera in desired location
- Making sure your mobile device is within 30-FT of camera, go to APP setup. Go to *Motion and View Test* in APP.
- In top right corner press Test Photo
- View and adjust camera if needed
- Exit motion and view test
- Confirm by pressing < arrow in Top left of Setup Screen
- Camera red light will flash several times, confirming camera is enabled and ready to take triggered images or video



REVIEWING CAMERA STATUS AND MAKE CHANGES TO SETTINGS:

1. Make sure your mobile device is within 30 feet of camera.
2. Make sure 'Bluetooth' in your phone/tablet settings is 'turned on'.
3. Open HAWK® SYNC™ APP and 'SIGN IN' to APP.
4. Select Camera in APP. This will take you to "SETTINGS PAGE"
5. In "SETTINGS" review number of "Media Count", SD Card Capacity, Battery Status and make changes to Camera Settings.
6. This can all be done standing away from camera without disturbing immediate area.

VIEWING IMAGES AND VIDEOS:

Viewing Images and Videos from Micro SD Card

1. Open Control Compartment Door
2. Turn Power "OFF" on Camera
3. Remove Micro SD Card by pushing in on card until it "clicks". Then release and card will eject from the slot. Never pull directly on Micro SD Card until it ejects from the slot.
4. Using a Micro SD Card Reader (not included) view your photos and videos.

Viewing Images and Videos by USB directly connected to Camera

1. Open Control Compartment Door
2. Turn Power "OFF" on Camera
3. Leave Micro SD Card inside of camera.
4. Plug micro USB portion into camera slot.
5. Plug USB side into selected device to view.
6. Follow prompt on device to view photos on camera