# uway

## LEADING THE WAY

**VH200B**

**U150**

# Vigilant Hunter

Instruction Manual

**Thank you for Purchasing your UWAY Camera**

The UWAY Vigilant Hunter is a high quality digital surveillance camera. It has been precisely engineered and tuned to provide you with optimal and consistent performance. This camera will provide high quality digital pictures and sound recording video for applications such as home, cabin, and business surveillance and animal monitoring for hunting and research. It features a highly sensitive Passive Infra-Red (PIR) motion sensor and numerous setting options to tailor the camera to your particular needs.

**Item Check List**

- Camera
- USB cable
- Nylon mounting strap
- Warranty Card

**Needed for Operation**

1. Twelve (12) AA (**VH200B**) Lithium or NiMH Rechargeable Batteries; Eight (8) AA (**U150**)

2. SD or SDHC Card (up to 32 GB capacity max)

**\*\*It is highly recommended to use Lithium or NiMH in VH200B camera to maximize camera performance.**

## SPECIAL HANDLING PRECAUTIONS

**CAMERA:**

The camera has been finely tuned. Avoid dropping and physical shock.

The camera is designed for typical weather conditions. It is not waterproof for use underwater.

Carefully clean debris from camera lens, PIR, and LED platform. Avoid use of cleaning solvents.

The camera contains precise electronic equipment. Do not attempt to open camera case yourself.

Condensation may form on lens and electrical components when bringing into warm room from cold. To avoid this, first place camera inside a sealed plastic bag before bringing into warm room temperature. If condensation forms, remove SD card and batteries until camera is dry.

Remove batteries when storing camera. Removing batteries from the camera during storage reduces the risk of battery acid leakage and battery drain.

Do not mix old and new batteries together in the camera.

**LCD SCREEN:**

Avoid exposing screen to direct sunlight or at high temperatures as LCD damage may occur.

## QUICK START GUIDE

The following will get you up and running quickly. We highly recommend you read the complete user manual to maximize the use of your camera.

**Factory Default Settings:**

| | |
|---|---|
| Camera Mode: 5MP | Photo Burst: 2 Pic |
| Quite Time: 10 sec | PIR Sensitivity: Normal |
| Temperature: Fahrenheit | Power Type: Lithium |

**Camera Set-up:**
1. Install 12 AA batteries (**VH200B**) or 8 AA (**U150**) (Lithium or NiMH) in correct polarity (+/-)
2. Insert SD card into camera with correct orientation (marked side toward camera front)
3. Turn switch to Setup Mode (middle position)

**Setting Date and Time:**
1. Turn Camera to Setup Mode (middle switch position)
2. Push up or down arrow to scroll, highlight 'Set Date/Time' and push OK
3. Highlight 'Date Format' and/or 'Time Format' and push OK to change the formats
4. Highlight 'Set Date/Time' and push OK to change the time
5. Use the up and down arrows to change date and time and the right and left arrows to move between the date and time.
6. Push OK to save date and time
7. Press Menu button to go back to main menu

**MOUNTING CAMERA**:

This camera is designed to use the UWAY Bracket (sold separately) to obtain maximal mounting versatility. Camera can be securely locked with cable lock (through camera, bracket, or both) or security box (with or without bracket).

Camera can be mounted with nylon strap (included) or security box (sold separately).

It is recommended to mount the camera 3-4 feet high overlooking desired area and 20-30 feet away from target area for maximum sensitivity in most situations. Adjustments may be required depending on animal size and environment. PIR motion detection distance changes based on ambient temperature and setup. Higher ambient temperatures will reduce PIR motion detection range thereby requiring camera to be closer to desired location. Mounting camera too high or angling camera may result in animals or humans going under or above the PIR motion detection range.

Angle the camera perpendicular to the ground to maximize the IR lighting potential. Using UWAY Bracket provides optimal versatility when mounting the camera. UWAY XtendIR will significantly increase night IR lighting distances out to 60-100 feet.

## GETTING STARTED

## SD MEMORY CARD

The camera supports both SD and SDHC memory cards up to 32 GB. **The camera does not have any internal memory and will not turn ON without SD card inserted.**

1. Open camera
2. Insert SD card with marked side facing front of camera
3. Push gently until card clicks into place
4. Push card again to remove

**Note 1:** Ensure SD card is NOT in locked position.

**Note 2:** Format SD card in camera before using each time. This will create a file on the SD card where the camera will save images to.

**Note 3:** It is always recommended to test the SD card by taking some pictures to ensure SD card works properly before leaving camera for extended periods of time.

**WARNING:** Make sure camera is OFF when adding or removing SD memory card

## BATTERIES

This camera is designed for Lithium or Nickel Metal-Hydride (NiMH) batteries; alkaline may be used in U150. An AC to DC power cord (sold separately) can be attached to the bottom port of the camera.

1. Insert 12 AA (**VH200B**) or 8 AA (**U150**) batteries while ensuring polarity (+ -) is correctly orientated.

**Note**: 6V or 9V (**VH200B**) DC power can be used with or without batteries inserted. External power by-passes the batteries when 6V or 9V (**VH200B**) power is connected. Solar panels DO NOT charge batteries directly located in the camera.

**WARNING**: Do not use 12V external battery power as camera damage will occur.

## CHECKING BATTERY LEVEL

1. Battery level can be seen in bottom left corner of viewer screen

## TESTING AND WORKING MODES

The camera has two modes: **Setup Mode** and **Work (ON) Mode**.

The camera has a 3-way switch. The center position is SETUP Mode, right position is WORK (ON) Mode, and left position is OFF.

## MENU OPERATIONS AND SETTINGS

### LIVE PREVIEW

This option allows the user to view in real time what the camera is capturing. Pictures/videos can be captured using the "OK" button while in this mode. This camera is equipped with a **Day Color Mode** and **Night IR Mode** while in Live Preview. It is recommended to minimize the use of Night IR Mode to avoid battery depletion.

1. Highlight "Live Preview"
2. Push OK button or right arrow button to select

PHOTO MODE

    a. Push 'Right arrow' button (you will see photo icon in top right corner of screen)
    b. Push UP Arrow for Day Color Mode
    c. Push DOWN Arrow for Night IR Mode (picture will be black and white)
    d. Push OK button to capture pictures

VIDEO MODE

    a. Push 'Left arrow' button (you will see video icon in top right corner of screen)
    b. Push UP Arrow for Day Color Mode
    c. Push DOWN Arrow for Night IR Mode (video will be black and white)
    d. Push OK button to start and stop video capture

3. Push MENU button to return to menu

**PHOTO / VIDEO PLAYBACK**

This feature allows the user to view pictures and video stored on the SD card. User can pause, stop, rewind, and fast forward video during playback.

1. Highlight "Photo / Video Playback"
2. Push OK button or right arrow button
3. Scroll through pictures and video using LEFT and RIGHT ARROW buttons

   a. PLAY VIDEO (video files have a "play symbol" on the bottom left corner of the picture.)
      i. Push OK button to play video
      ii. Push OK button to pause video
      iii. Push RIGHT arrow to fast forward or LEFT arrow to rewind
      iv. Push MENU to go back

   b. DELETING PICTURES / VIDEO
      i. Push UP arrow button
      ii. Select ONE or ALL pictures / videos
      iii. Push OK to delete

4. Push MENU button to return to menu

**CAMERA MODE**

This camera can be set to capture still pictures OR video.

1. Highlight "Camera Mode"
2. Push OK or right arrow button

3. Select VIDEO or PHOTO using UP or DOWN arrow
4. Push OK to SAVE setting

**PHOTO RESOLUTION** (only displayed if PHOTO mode is selected)

Photo resolution can be set at 8MP, 5MP, 3MP.

1. Highlight "PHOTO RESOLUTION"
2. Push OK or right arrow button
3. Select desired photo resolution
4. Push OK to SAVE setting

**PHOTO BURST** (only displayed if PHOTO mode is selected)

This feature allows the camera to take from 1-3 photos in rapid succession following each trigger.

1. Highlight "PHOTO BURST"
2. Push OK or right arrow button
3. Select desired number of photos per trigger
4. Push OK to SAVE setting

**Note:** First photo may have different exposure than subsequent photos in burst mode. This camera does a more sophisticated light metering calculation between the first and second photo, thereby resulting in slight photo differences.

**VIDEO LENGTH** (only displayed if VIDEO mode is selected)

Video length can be set in 10 sec increments from 10s – 30s (**VH200B**) or 10 – 60s (**U150**).

1. Highlight "VIDEO LENGTH"
2. Push OK or right arrow button
3. Select desired video length
4. Push OK to SAVE setting

**VIDEO SOUND** (only displayed if VIDEO mode is selected)

Video sound recording can be turned ON or OFF.

1. Highlight "VIDEO SOUND"
2. Push OK or right arrow button
3. Select ON or OFF
4. Push OK to SAVE setting

**QUIET TIME**

Also known as, "Time Interval or Delay Time", this feature puts the camera to sleep after capturing an image for the selected period of time before it can be re-activated by motion. Times include 5s, 10s, 20s, 30s, 1min, 5min, 10min, 30min, 60min.

1. Highlight "QUIET TIME"
2. Push OK or right arrow button
3. Select desired 'quiet time'
4. Push OK to SAVE setting

**PIR SENSITIVITY**

This feature allows the user to change the PIR motion sensitivity. The user can select High, Normal, and Low. Selecting High will result in the camera being more sensitive to motion. Selecting Low will reduce the sensitivity of the motion sensor.

1. Highlight "PIR Sensitivity"
2. Push OK or right arrow button
3. Select Low, Normal, or High
4. Push OK to SAVE setting

**ILLUMINATION**

This feature allows the user to use external lighting (XtendIR-B) or turn off IR lights if no lights are required in the night. User selects Internal when they want the IR lights of camera to work normally; select External if connecting XtendIR-B (sold separately) to the camera OR to turn IR lights OFF at night, and Int + Ext if both the XtendIR-B and camera IR lights are desired.

1. Highlight "ILLUMINATION"
2. Push OK or right arrow button
3. Select Internal, External, or Internal + External
4. Push OK to SAVE setting

**TEMPERATURE**

Allows the user to select either Fahrenheit or Celsius temperature settings.

1. Highlight "TEMPERATURE"
2. Push OK or right arrow button
3. Select Fahrenheit or Celsius
4. Push OK to SAVE setting

**DATE / TIME STAMP**

This allows the user to have the date, time, and temperature stamped onto each photo or video.

1. Highlight "Date / Time Stamp"
2. Push OK or right arrow button
3. Select NO or YES
4. Push OK to SAVE setting

**SET DATE / TIME**

This feature allows the user to set the display format for date and time, as well as set the current date and time.

1. Highlight "Set Date / Time"
2. Push OK or right arrow button
3. Select one of the three menu options:

DATE FORMAT

- Select the desired Date Format and push OK to SAVE

TIME FORMAT

- Select desired Time Format and push OK to SAVE

SET DATE / TIME

- Set date and time using UP, DOWN, RIGHT, and LEFT arrow and push OK to SAVE
4. Push MENU button to return to menu

**ACCESS CONTROL**

This feature allows the user to set a 4-digit password to deter theft and render the camera unusable without the password.

1. Highlight "Access Control"
2. Push OK or right arrow button

SET PASSWORD

- Select desired password using ARROWS and push OK to SAVE

DISABLE PASSWORD

- Select and push OK to disable password

**POWER TYPE**

This camera is a precisely tuned instrument. It is recommended to use Lithium or high quality NiMH batteries. Programming which batteries are present will maximize the cameras potential. This camera can also be connected to a 6V or 9V (**VH200B**) external battery pack (sold separately).

1. Highlight "Battery Type"
2. Push OK or right arrow button
3. Select Lithium, NiMH, DC 6V, or DC 9V (**VH200B**)
4. Push OK to save setting

**FORMATTING SD CARD**

Formatting the SD card removes all files on the memory card and prepares it for use in the camera. It is recommended that the SD card is formatted in the camera prior to each use.

1. Select "Format SD Card"
2. Push OK or right arrow button
3. Select YES to format SD card
4. Push OK to proceed with formatting SD card

**CAMERA INFORMATION**

The following information is available:

1. Select "Camera Information"
2. Push OK or right arrow button

FILES COUNT

- Displays PICTURE and VIDEO number

STORAGE

- Displays SD memory card USED SPACE and FREE SPACE

FIRMWARE VERSION

- Displays the current camera firmware version

## ADDITIONAL INFORMATION

### TRANSFERRING PICTURES AND VIDEO TO A COMPUTER:

Pictures and video can be removed in one of two ways:

1. SD memory card can be removed from camera (ALWAYS ensure camera is OFF before removing SD card) and transferred to computer or SD card reader.
2. Connect camera to computer using supplied USB cable.
   a. Turn camera ON
   b. Computer will recognize camera and prompt you to open file or save pictures

### FIRMWARE UPDATES

This camera is designed to accommodate future firmware updates if required.

1. Copy the firmware update file (eg. Main.elf) onto the SD card root directory (do not place in any file)
2. Insert SD card into the camera
3. Turn camera to SETUP
4. Select YES and push OK when update prompt appears
5. The blue LED on camera front will blink until the update is finished.
6. Turn camera OFF and remove one batteries to break connection after blue LED stops blinking
7. Replace batteries and turn camera to SETUP mode

8.  Select NO to update and push OK
9.  The update file will be removed from SD card
10. Confirm new firmware version by checking 'Camera Information" (see instructions)


**TROUBLESHOOTING**

1.  **The camera does not turn ON**
    a.  Ensure batteries are inserted properly with correct polarity and fully charged. If possible test each battery with battery tester. Approximately 1.7V for Lithium, 1.5V for Alkaline, and 1.3V for NiMH.
    b.  Ensure SD card is properly inserted and not in locked position
    c.  Reset camera by removing batteries and SD card for 10 minutes
    d.  Cold temperature may decrease battery output sufficiently to prevent camera from turning ON; check batteries and ensure they are rated for cold temperature
2.  **Beeping Noise when camera turns ON**
    a.  Insert SD card
    b.  Ensure SD card is not locked
    c.  Format SD card in camera
    d.  SD card may not be compatible
3.  **Camera will not take pictures or stops part way even with full batteries**
    a.  SD card is not formatted correctly; format SD card in camera

b. Ensure SD card is not locked
c. SD card is faulty or incompatible; try different SD card and/or brand. Faulty or incompatible SD cards may cause system conflict, system crash, and battery drain. Always format SD card in camera and try different SD cards if problem persists.
d. Batteries do not have enough power to activate picture/video sequence

**4. Batteries run down quickly**
a. Avoid poor quality alkaline and rechargeable batteries, avoid mixing different brands and ages of batteries as battery life will be adversely affected. Different brands of batteries will perform differently than others; try other battery brands to find what works best for your environment.
b. Reduce number of picture burst and/or reduce video length.
c. Ensure batteries are fully charged; test batteries with tester if possible
d. In cold temperatures, the battery life becomes shorter
e. SD card may have jammed causing battery to drain; use different SD card and/or brand

**5. Pictures count in burst mode does not equal what I programmed**
a. Camera has sophisticated power meter; when weak or low current is detected, camera will

automatically reduce the number of pictures in burst mode.
   b. Ensure batteries are fully charged
   c. Cold temperatures may decrease battery output resulting in reduction in picture count. Lithium batteries will help in colder weather.

6. **Video time is cut shorter than what I programmed**
   a. Camera has sophisticated power meter; when weak or low current is detected, camera will automatically reduce the length of video.
   b. Ensure batteries are fully charged
   c. Cold temperatures may decrease battery output resulting in reduction in video length. Lithium batteries will help in colder weather.

7. **SD card is not recognized in camera**
   a. If the SD card is formatted on a computer or other camera, it may not be recognized by this unit. Use this camera to format the SD card
   b. Ensure that SD card is not greater than 32 GB in size
   c. Ensure SD card is not locked
   d. Try different brand of SD card for compatibility

8. **SD card is inserted into another device (i.e. camera) and is not recognized**
   a. SD card may be formatted differently than the other device (i.e. camera) can recognize
   b. The camera file system is generally compatible with other digital cameras; however, it is recommended not to use the same SD card in

different cameras to avoid possible file system conflicts.

9. **Color or brightness is different between pictures at same time of day and during burst mode**
   a. Camera has sophisticated light metering calculations to optimize pictures in all settings; light intensity may change between pictures causing differences in color and contrast.
   b. During burst mode, the first picture is taken quickly for fast trigger speed; increased light metering occurs between first and second picture resulting in different color or brightness.

10. **Battery level on display is low despite using new batteries**
    a. Ensure battery type is selected correctly in camera menu.
    b. Rechargeable batteries run on lower voltage than lithium resulting in display variation. Some rechargeable batteries will display low power even though they are fully charged; this does not affect camera performance.
    c. Cold weather will reduce battery output

11. **Low Power problems**
    a. When the camera power is low the system will not be stable, you may observe abnormal screen displays or automatic camera reboot. Change your batteries.

12. **Camera fails to detect motion.**
    b. Ensure batteries test full; replace batteries if necessary

c. Ensure SD card is NOT locked and compatible with camera; take test pictures in 'Live Preview' mode.
d. Ensure 'Quiet Time' is set correctly
e. Ensure camera is mounted correctly. Note: hot weather, humidity, and rain will reduce PIR sensing distance; move camera closer if required.
f. Typically mounting the camera at a height of 3 feet will maximize detection distance, this will depend slightly on the size of game you are trying to observe.
g. Camera may be pointed up too high or down thereby allowing game to walk under or over the PIR motion detection window; adjust camera position and try again.

**13. Images are blurry (stills or motion)**
a. UWAY offers some of the best picture quality. Although we try to cover every scenario, it is important to realize that different environments and conditions will affect the picture quality.
b. Blurry still images may result from interference with focal points; for example distance from camera, trees, brush, may affect focus point.
c. Fog, condensation, water drops, snow, dust, direct sunlight, etc can all reduce picture quality.
d. Motion blur may result when object moves too quickly. Blur will be compounded during night and low light situations. The UWAY camera has been finely tuned to maximize picture quality

while balancing other interactions such as battery life, trigger speed, and IR lighting distance.

14. **Night images are dark**
    a. Ensure batteries are fully charged. Use Lithium or high quality NiMH rechargeable batteries.
    b. Cold temperature will reduce battery output to IR lights.
    c. Remove brush, grass, and other debris that may prevent IR light from reaching its potential.

15. **Too many empty pictures/video or false triggers**
    a. Ensure camera is mounted on a solid surface; trees and surface may move in wind causing camera to trigger falsely.
    b. Adjust camera height and angle.
    c. Remove brush and branches from detection zone that may be triggering camera.
    d. A close running animal/human may make it across detection zone before triggering the camera
    e. Sunlight and heat waves may result in certain scenarios of false triggers; position camera in different location.

**Call UWAY customer support for more information and help with camera if needed.**

**UWAY Vigilant Hunter Camera : VH200B**

- Lens: FOV = 52
- Photo resolution: 8MP, 5MP, 3MP (programmable)
- Photo burst: 1-3 photos per trigger (programmable)
- Video resolution: 640 x 480 VGA
- Video length: 10-30 sec
- Very compact (4 x 5.9 x 2.2 inches)
- Fast trigger time (1 sec)
- 60 No Glow Black Flash infrared LEDs
- Multi-zone PIR detection range: up to 50+ feet
- Color daytime and black & white nighttime pictures
- Date, Time, Temperature & Moon Phase image stamp
- Low power consumption, standby battery lifetime up to 12 months
- External memory : SD/SDHC card up to 32 GB
- Video sound recording
- 6V / 9V-volt port & USB port
- 12 x 1.5 volt AA batteries (not included)
- Can be powered by Lithium and NiMH AA batteries
- Low battery indicator
- Mount with mounting strap, security box, & cable lock
- 4-digit password protection
- Playback pictures and videos
- 2.0" true color TFT display
- User-friendly interface, 6 buttons control

## SPECIFICATIONS

### UWAY Vigilant Hunter Camera : U150

- Lens: FOV = 52
- Photo resolution: 8MP, 5MP, 3MP (programmable)
- Photo burst: 1-3 photos per trigger (programmable)
- Video resolution: 640 x 480 VGA
- Video length: 10-60 sec
- Very compact (3.4 x 5.2 x 2.2 inches)
- Fast trigger time (1 sec)
- 30 High Output infrared LEDs
- Multi-zone PIR detection range: up to 50+ feet
- Color daytime and black & white nighttime pictures
- Date, Time, Temperature & Moon Phase image stamp
- Low power consumption, standby battery lifetime up to 12 months
- External memory : SD/SDHC card up to 32 GB
- Video sound recording
- 6V volt port & USB port
- 8 x 1.5 volt AA batteries (not included)
- Can be powered by Lithium, Alkaline and NiMH AA
- Low battery indicator
- Mount with mounting strap, security box, & cable lock
- 4-digit password protection
- Playback pictures and videos
- 2.0" true color TFT display
- User-friendly interface, 6 buttons control

**WARRANTY INFORMATION**

Limited Manufacturer Warranty

This UWAY camera is warranted to be free from defects in material and workmanship for 1 year from the original date of purchase when purchased through an authorized dealer. UWAY Outdoors will, at its option, repair or replace your camera with the same or comparable model, free of charge (shipping charges may apply) for a period of (1) one year from the original date of purchase in the event of a defect in materials or workmanship occurring with normal use. This warranty only extends to the original retail purchaser. Purchase receipt or other proof of date of original purchase is required before warranty performance. The warranty on any replacement product provided under this warranty shall be for the unexpired portion of the warranty period applicable to the original product.

This warranty extends solely to failures due to defects in materials or workmanship occurring during normal use. It does not cover normal wear of the product. This warranty is void if: the product housing has been removed, if the product's label, logo or serial number have been removed, or if the product fails to function properly as a result of accident, misuse, abuse, neglect, mishandling, misapplication, non-compatible batteries, faulty installation, setup, adjustments, improper maintenance, alteration, maladjustment of controls, modification, power surges, service by anyone other than UWAY or UWAY authorized service center or acts beyond the manufacturer's control.

Should your product prove defective during this warranty period, please contact us to obtain a RMA number prior to returning the defective unit.

*RMA number is required for all returns.

Include $11.95 for return shipping & insurance. (For U.S. customers only. CHECK OR MONEY ORDER ONLY PLEASE, NON-REFUNDABLE). If the product is beyond the warranty period, the price for repairing or replacing may vary. Please allow 6-8 weeks for delivery. International customers pay different amount of shipping & insurance. We will send detailed information along with the RMA number.

If the product is beyond the warranty period, the price for repairing or replacing may vary. International customers pay different amount of shipping & insurance. We will send detailed shipping information along with the RMA number.

Include with your camera the RMA form and a copy of your dated cash register receipt or other proof of purchase.

The warranty work will not automatically extend the original warranty period. The warranty on any replacement product provided under this warranty shall be for the unexpired portion of the warranty period applicable to the original product.

*Please consult your dealer or us if you have any questions or problem while using the camera before you request a RMA number and send the camera back for repair. Some

problems may be solved easily with help from our dealers or customer service.

**CAMERA REPAIR**

Repairs for damages not covered by the warranty will be subject to a charge.  Please contact UWAY Outdoors to discuss repair options not covered under warranty.

**CUSTOMER SERVICE CONTACT:**

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