

ATN X-Sight 5 Series ATN X-Sight 5 LRF Series

DAY/NIGHT RIFLE SCOPES



MANUAL

X-SIGHT 5 USER'S GUIDE



AMERICAN
TECHNOLOGIES
NETWORK CORP.

WARNING STATEMENT

This device 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 device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 device and receiver.
- Connect the device 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



IR850 Infra-Red illuminator



* For X-Sight 5 LRF models only.

CAUTION!

THIS PRODUCT CONTAINS NATURAL RUBBER LATEX WHICH MAY CAUSE ALLERGIC REACTIONS

The information in this manual is furnished for informational use only, is subject to change without notice, is not to be construed as a commitment by ATN Corp.
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DISCLAIMER

This printed version of the user manual is the current version during the time of printing. This version might have been revised. In order to access the latest revision of the manual, follow the link provided below or scan the QR code, provided below:



<https://manual.atncorp.com/x-sight-5/>

FEATURES

- | | |
|---|---|
|  ULTRA 4K SENSOR |  RECORD VIDEO IN REAL 4K |
|  ONE SHOT ZERO |  BALLISTIC CALCULATOR |
|  DUAL STREAM VIDEO |  CUSTOM RETICLES |
|  SMOOTH ZOOM |  RAV IN SLOW MOTION |
|  E-COMPASS |  PROFILE MANAGER |
|  WIFI |  ULTRA LOW POWER CONSUMPTION |
|  DAY/NIGHT MODE |  COMFORTABLE EYE RELIEF |
|  3D GYROSCOPE | |

APPLICATION

ATN is moving Electro-Optics innovation forward once again with our 5-th Gen Smart Day/Night Scope **X-Sight 5** with Ultra HD 4K+ sensor. Featuring an upgraded high-performance sensor, the X-Sight 5 gives you ultra-high definition with 4 million more pixels for accurate tones, vivid colors, and a true-to-life visual sensation.

The X-Sight 5 provides the highest sensor resolution on the market. More than double the competition and 33% more than our X-Sight 4K models.

Advanced Ballistic calculator helps make sure you hit your target each and every time.

Experience better day and nighttime visual quality and capability along with ambient temperature compensation. It's a 24 hour visual experience like you've never seen!

SPECIFICATIONS

Item	X-Sight 5 3-15x	X-Sight 5 5-25x	X-Sight 5 LRF 3-15x	X-Sight 5 LRF 5-25x
Laser Rangefinder	No		Yes	
Sensor	ATN 4K+ 4056x3040 30/60/120/240 FPS			
Magnification	3-15x	5-25x	3-15x	5-25x
Field of view	9°	6.3°	9°	6.3°
Field of view	15.7 m / 100 m	11 m / 100 m	15.7 m / 100 m	11 m / 100 m
Core	ATN Obsidian V Quad Core			
Micro Display	1280x960			
Eye relief	90 mm			
Video Record Resolution	Up to 4K UHD 30/60/120 fps			
Ballistic Calculator	Yes			
WiFi (Streaming, Gallery, & Controls)	iOS, Android			
3D Gyroscope	Yes			
3D Accelerometer	Yes			
RAV (Recoil Activated Video)	Yes			
Electronic Compass	Yes			
Smooth Zoom	Yes			
Radar	Yes			
Reticles	Multiple Patterns & Color Options, User Custom reticles			
Reticle Editor	Yes			
Microphone	Yes			
MicroSD card	4 to 64 Gb (V30 class)			
USB, type C	Yes			
Mount	30 mm Standard Rings (included)			
Battery life (Li-ion)	Up to 14 hours			
Waterproof rating / IP rating	Weather resistant			
Operating Temperature	-20°F to +120°F / -28°C to 48°C			
Dimensions	13.3"x2.2"x2.1" 337x56x54 mm	14.2"x2.2"x2.1" 360x56x54 mm	14.3"x3"x2.2" 362x76x56 mm	15.2"x3"x2.2" 385x76x56 mm
Weight	1.87 lb / 0.85 kg	1.87 lb / 0.85 kg	2.1 lb / 0.95 kg	2.1 lb / 0.95 kg
Warranty	3 years			

* ATN reserves the right to change the above specifications at any time without notice.

PREPARING THE DEVICE

UNPACKING

The following steps must be performed before using the device.

1. Open packaging box, remove X-Sight 5/5 LRF.
2. Verify your box has the following: X-Sight 5 scope, Lens Cover, Sunshade, Rubber Eyecup, IR Illuminator, Rings, Charging Cable, IR Illuminator battery, IR illuminator battery charger.
3. Inspect the device for damage to optical surfaces, body, eyecups, operation buttons, etc.
4. Ensure that all optical surfaces are clean and ready for use.

NOTE

If any accessories are missing or broken contact ATN's Customer Service at 1.800.910.2862.

CHARGING THE DEVICE

The device is equipped with a USB (type C) port. You will find it under the rubber cap on the right side of the device (caps are marked with appropriate icon).

We have included a USB (type C) charging cable with your scope. Plug the cable into a USB wall charger that has an output of 2 amps (Wall Charger not included).

Charge your scope for 6 hrs using a 2 A USB wall charger. Note using a wall charger with lower amperage will take longer to charge your scope.

1. Recommended charger is 2 A USB charger.
2. Battery charging time (from 0 to 100%) is 6 hours with 2 A USB charger.
3. Battery run time is 14 hours on a single charge.

MICRO SD AND USB C PORTS



The device is equipped with a microSD Card and USB (type C) ports. You can find them under the rubber caps on the right side of the device (we marked the caps with appropriate icons).

To open the rubber port cover, gently lift the rubber cover and move it out of the way.

NOTE

Make sure that the device is turned off before inserting the formatted microSD Card into its assigned port.

1. Always format a new microSD card before using.
2. Insert microSD card as shown.
3. Use a thin object (small coin, paper clip) to lock the microSD card in place after inserting it into the slot.
4. Return the cover to its original position.

NOTE

There is only one correct direction to insert the microSD Card.

Do not force the microSD Card into the port doing so may cause damage to both the scope and the card itself.

To remove the microSD Card from the port, push the card slightly in using the same thin object you did before. When the card pops up a few millimeters, pull the card out with your fingers or tweezers.



NOTE

If you are going to record video, the microSD Card should be a Class 10 V30 (30 Mb/sec) or faster and have capacity from 4 to 64 Gb that is an HC type SD card.

FIRMWARE UPDATE

Before operating your device, update the firmware to the latest version. All firmware updates can be found on at <https://www.atncorp.com/firmware>.

To receive a notification concerning new firmware updates, please register your device on our website. An email notification will be sent when a new firmware update becomes available.

To update the firmware you will need a microSD Card and fully charged internal battery.

NOTE

In the event of a power failure during an update, the device may crash. This will corrupt the system files and the device will need to be sent back to the ATN factory for service.

To ensure your zero coordinates are not lost, write down your zero coordinates before continuing to update the firmware.

Update the new firmware as follows:

1. Download the *****.bin** file and copy to your microSD Card — root directory.
2. Insert the card into the scope.
3. Turn ON the scope.
4. In the “Firmware Update” dialog box select “Yes” to start the update.
5. When the update counter reaches “100%” the device will automatically restart.
6. Once the device is powered up it will enter self configuration mode.
7. After completing it will automatically restart.
8. Motion Sensing platform will be configured when first turned on.
9. Once the Firmware update completes, please do a factory reset before using the product.
10. Please delete the Firmware file off of the microSD card after the process is complete. Or the system will try to update the Firmware every time you turn the scope on.



NOTE

If the scope freezes or stops responding to the control panel. Press and hold the Power button for 15 seconds to reboot the scope.

ON/OFF



To TURN ON the device, press and hold the POWER button until you see the ATN splash screen.

To TURN OFF the device, press and hold the POWER button, until “Shut down the device?” appears in the dialog box. Choose “Yes” to turn off.

If the scope freezes or stops responding to the control panel. Press and hold the Power button for 15 seconds to reboot the scope.

USING YOUR KEYPAD



1. Up button: On the home screen adjusts zoom in level. Pressing and holding the Up Button will engage smooth zoom in. Short Press of the Up Button will engage Step Zoom in. Up Button is also used to navigate in the carousel and system menu.

2. Down button: On the home screen adjusts zoom out level. Pressing and holding the Down Button will engage smooth zoom out. Short Press of the Down Button will engage Step Zoom out. Down Button is also used to navigate in the carousel and system menu.

gate in the carousel and system menu.

3. Left button: On the home screen a Short Press of the Left Button will activate photo capture. A Long Press of the Left Button will switch the mode to Video. Left Button is also used to navigate in the carousel and system menu.

4. Right button: On the home screen changes the device display brightness. Right Button is also used to navigate in the carousel and system menu.

5. OK button: Using the OK Button opens the Carousel from the home screen and confirms selections in the menu.

6. Function 1: When you have the Carousel Open or Menu open, pressing the F1 button will close the Carousel or Menu. When you are on the home screen and your device has an attached LRF, pressing F1 will activate the LRF.

7. Function 2: When using your Obsidian 5 device and you are in the environmental settings menu, pressing F2 will allow you to go to the next screen to update the environmental settings.

FOCUSING



DIOPTER ADJUSTMENT

By rotating the Diopter Adjustment Ring you will achieve optimal sharpness for your vision. Look through the eyepiece while focusing on the reticle and widgets on the screen.

NOTE

Once the Diopter Adjustment is set to your liking, adjustment will not need to be performed unless another user altered the focus for their needs.

DISTANCE FOCUS

Rotate the Adjustment Ring, as necessary, to achieve the proper focus at various distances.



MOUNTING

The X-Sight 5 has a 3.5-inch eye relief (90 mm), and can be mounted using 30 mm mounting rings. ATN has provided two standard rings and one L shape ring. The L shape ring is for those instances when you need extra eye relief for certain rifles. First, choose your preference of rings and position and mount the bottom portions of your rings to your rail for optimal eye relief. Place the scope on the bottom half of the rings you just mounted, verifying you have sufficient eye relief for your platform. Place the top portion of your ring over the mounted bottom portion, make sure the holes align and the screws turn easily. Apply equal torque to all screws with the provided Allen wrench. Make sure your rings are tight on your rifles rail and will not come loose due to recoil.



For mounting the X-Sight 5 on the Picatinny rail:

1. Loosen the fixing screws on the sides of the mounting rings.
2. Place the rifle scope on the Picatinny rail so that the projection of the rail, which is in the base of the ring, enters the recess in the rail.
3. Tighten the fixing screws of the mounting rings.

CAUTION!

Be sure your weapon is not loaded. Use safe weapon handling procedures at all times.

NOTE

Please do not over tighten the Fixing Screws when attaching the rings to your rail, we recommend using 30 in-lbs (Nm 3.39).

ATN IR850 INFRA-RED ILLUMINATOR



BATTERY

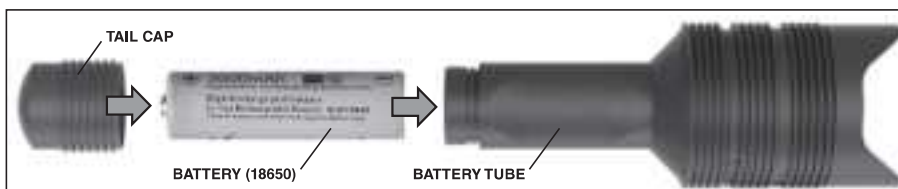
NOTE

Please hold the battery tube (not the flashlight head or neck) when Tightening/loosening the tail-cap.

The IR850 IR Illuminator uses one 18650 battery.

1. Remove the tail cap unscrewing it until it is free of the body.
2. Install the battery in the body, observing proper battery polarity.

3. Install the tail cap back on the body.



MODES

The IR850 has three stage output — Low, Medium and High system. Low at 50%. Medium at 75%. High at 100%.

BRIGHTNESS SETTINGS

The factory preset modes control the brightness of the IR illuminator.

Three modes are designated on the head after the focusing ring. The modes are distinguishable by the size of the dot. The small dot indicates the lowest power output setting. The medium dot indicates the medium output power setting. The large dot indicates the strongest output power setting.

To turn on/off the IR illuminator push the button on the tail cap.

To switch the modes rotate the setting ring behind the focus ring of the IR illuminator.

FOCUS

Turn the light on maximum output and shine it on a wall 8~10 m away. To focus the beam, hold the head in one hand and turn the neck section with your other hand turn clockwise or counter-clockwise.



MOUNT

Attach the IR850 to adjustable mount as follows:

1. Unscrew the two screws.
2. Place the insert in the mount.
3. Insert the illuminator into the mount with insert.

4. Secure the two screws using an Allen wrench. Do not apply excessive torque.

ALIGNING THE IR BEAM

In order to Align the IR850 illuminator to your scope. After the IR850 is assembled into the mount. Place it on the X-Sight 5 side accessory rail or on your rifles accessory Picatinny rail. Once mounted securely, slightly loosen the two screws on top of the mounting ring.

While looking through the X-Sight 5 at night with night mode activated. Move the IR850 around in the mount until you see the IR light covering your entire field of view in the X-Sight 5 view finder. Once you have adjusted your IR light to be aligned with your X-Sight 5 FOV, gently tighten the two screws on top of the mounting ring with an Allen wrench.

MAINTENANCE

To prevent wear and retain water-resistance it is a good idea to lubricate the threads and o-rings if they become dry.

TROUBLESHOOTING

Light dimming

- Battery may be faulty. Try another fully charged battery.

COMPASS CALIBRATION

When the compass needs to be calibrated the word "CAL" appears instead of the Compass Scale.

We do suggest calibrating the compass before mounting the scope to your rifle as it would be very difficult and highly unsafe to spin your rifle at the necessary speed to calibrate the compass.



In order to calibrate the compass rotate the device around all the 3 axes, both clockwise and counterclockwise until it switches the "CAL" text with magnetic direction readings.

NOTE

After calibrating the device please remember that the compass will work best when holding the X-Sight 5 parallel to the ground.

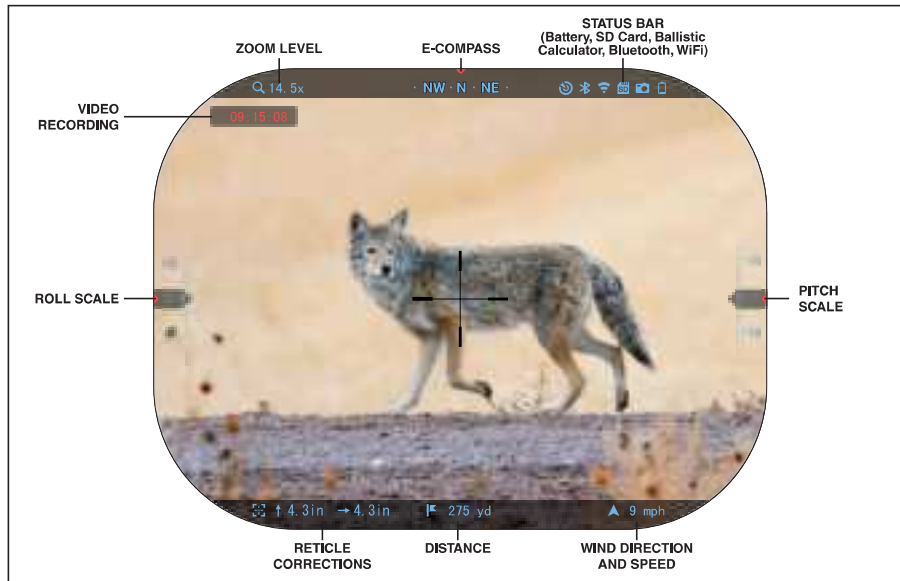
Other possible abbreviations:

- ERR — an error was detected;
- SMF — your device is under Strong Magnetic Field;
- UPD — your firmware needs to be updated.

INTERFACE

HOMESCREEN

The first screen you'll see after turning on the device is the Homescreen. It consists of Scales, Status Bar icons and different Information Widgets.



SCALES

- E-Compass Scale shows yaw angle, based on e-Magnetometer data.
- Roll Scale shows rifle cant, based on internal 3D Gyroscope.
- Pitch Scale shows rifle inclination, based on internal 3D Gyroscope.

STATUS BAR

Displays information about the current state of the system. Icons that are inactive become invisible when not in use, and only the important information will appear.



- Battery — shows how much energy is left in the system.
- Micro SD Card — shows the presence or absence (red icon) of memory card.
- Ballistic Calculator, Bluetooth, and WiFi — shows when the function is enabled.

WIDGETS

Interface elements will appear as widgets that will provide access to useful information. There are several types of widgets:

- icons without value are used for mode displaying (Photo and Video Modes);
- only numerical value (Detailed Roll and Pitch Values);
- icons with a numerical value: Range, Zoom, Reticule Correction, Wind Speed.

Display widgets can be disabled from the System Settings.

To enter System Settings you should click the OK button from Homescreen to access the Shortcut Carousel.

Select the wrench icon with RIGHT or LEFT buttons and push the OK button to enter the System Settings menu.

Select the Display tab with RIGHT button and choose subcategory Display Widgets with the Keypad buttons.

Press the OK button to select the Display Widgets. Use the Keypad buttons to change from Extended to Minimal. Press the FUNCTION 1 button to escape the menu.



MAIN OPERATIONS



ZOOM LEVEL

While on the Homescreen use the UP and DOWN buttons to Increase or Decrease zoom. Pressing and holding the UP or DOWN buttons will engage Smooth Zoom In or Out. A quick press of the UP or DOWN buttons will give you step zoom levels.

NOTE

When the device is activated for the first time, you need to configure the lens option in the pop-up window before zooming. Please refer to System Settings → Settings → Device Type.



TAKING PHOTOS OR VIDEOS

Press and Hold the LEFT button to switch modes in order to take Videos or Photos. A short PRESS of the LEFT button will activate or stop Video recording. Or if you are in Photo mode pressing the Left button will take a still image.

NOTE

Recording will automatically stop when the memory card is full or the battery is out of power.



SHORTCUT CAROUSEL

Pressing down on the OK button opens the Shortcut menu.

Press the FUNCTION 1 button to exit the Carousel or Menu.

MODES

The X-Sight 5 has 2 modes of operation: basic and advanced.

Basic Mode has the following feature options:

1. NIGHT MODE OFF/ON
2. SETTINGS
3. ZEROING
4. DISTANCE ENTRY
5. ADVANCED SHORTCUT

Advanced Mode has the following feature options:

1. NIGHT MODE OFF/ON
2. ENVIRONMENT
3. RAV OFF/ON
4. RETICLE SELECTION
5. WIFI OFF/ON
6. ADVANCED SHORTCUT OFF/ON
7. DISTANCE ENTRY
8. ZEROING
9. SETTINGS
10. BALLISTIC CALCULATOR OFF/ON

SHORTCUT CAROUSEL



The Carousel is your access to a number of shortcuts that will allow you to quickly access your scope's features. Click the OK button from Homescreen to access the Carousel on the bottom of your Homescreen.

Buttons highlighted in Red are the only ones that activate a particular shortcut.

Use the LEFT & RIGHT buttons to move between functions, except with the

group of ON/OFF switches (WiFi, Bluetooth, Ballistic Calculator, RAV), use Keypad buttons between switches.

To turn a particular function ON or OFF, you should click the OK button while that function is selected. Example — WiFi.



ZEROING

Sighting in your scope has never been easier with One Shot Zero. Take a shot adjust your reticle and you are good to go.



NIGHT MODE

Switch between Day and Night Mode.



DISTANCE ENTRY

Manually input or adjust the distance to the target to be used by the Ballistic Calculator.



ENVIRONMENT

Allows for input of various environmental data to improve ballistic correction, such as wind speed and direction.



SETTINGS

Allows access to various system options and adjustments.



WIFI

Allows you to connect to your smart phone or tablet; password is **atnsmarthd**.



BALLISTIC CALC

Allows you to have the scope automatically adjust your reticle POI for bullet drop, based on the ballistic information you input into the scope.



RAV (Recoil Activated Video)

Allows you to record your hunt without having to press the record button.



RETICLE SELECTION

Allows you to change the reticle and its color.



ADVANCED SHORTCUT

When disabled, the carousel items are reduced to Basic Mode items.

USING SYSTEM SETTINGS



To enter the System Settings, open the Shortcut Carousel by pressing the OK button. Select the wrench icon with RIGHT or LEFT buttons.

Push the OK button to enter the menu.

The System Settings consists of a Tab Bar at the top of the screen, list of subcategories in the center and Help Information (key for the button functions) at the bottom.

In order to Close the

Menu press the FUNCTION 1 button on your Keypad.

Movement between the tabs is carried out using the LEFT and RIGHT buttons.

Each tab includes subcategories. To select a particular subcategory you should use Keypad buttons and press the OK button to select it.



FIRST LEVEL



SECOND LEVEL



THIRD LEVEL



To change a particular value, follow the next few steps. Select the subcategory you need with Keypad buttons.

Press the OK button to select a particular value (once selected it will turn red).

Change the value with the Keypad buttons.

To select a new value, press OK button to confirm the change.



FUNCTIONS

NIGHT MODE

To switch between Day and Night Mode, choose NIGHT MODE in Shortcuts.

The shortcuts allow you quick access to the Carousel that contains your scope's features. Just click the OK button to access the Carousel.

Buttons highlighted in Red are the only ones that activate a particular shortcut.

Movement between the items is carried out using the LEFT & RIGHT buttons.

NOTE

Remember that turning on Night Mode during daylight will not harm your device; however, you may not be able to see anything due to the image being too bright.

Depending on the ambient light conditions you may need to adjust the Night Sensitivity setting.

Press the OK button from the Homescreen and use the RIGHT or LEFT

