



# AUXILIARY BALLISTIC LASER

## LASER RANGEFINDER

### OWNERS MANUAL



AUXILIARY BALLISTIC LASER (ABL 1000/1500)

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## 1. DESCRIPTION

**The New Auxiliary Ballistic Laser (ABL 1000/1500 ) Laser Rangefinders will turn your ATN SMART Sight into a precision hunting machine.**

Simple and Quick to attach, the ABL Smart Rangefinder takes just minutes to install. Once active, your ATN Smart Scope's internal Ballistic Calculator will make instantaneous POI adjustments to your reticle. You are ABL to control your Laser Rangefinders controls via your SMART Sight, and it is compatible with ATN X-Sight 4K Series, ThOR 4 and X-Sight II HD Series of scopes. Plus, your distance to your target will be clearly recorded when your ABL 1000/1500 is in use while recording.

**Now, you will be ABL to Make Every Shot Count!**

## 2. SPECIFICATIONS

Model	ABL 1000	ABL 1500
Precision to	$\pm 1$ y/m	
Range	5-1000 y/m	5-1500 y/m
Bluetooth	4.1	
Environmental rating	Waterproof	
Pairs with SMART HD	Obsidian II or higher	
Smart HD optics compatibility	X-Sight II HD Series, X-Sight 4K Series, ThOR 4 Series	
Battery life	6 months or 5,000 measurements	
Battery type	1 x CR2 type, 3 V	
Size	4.37" x 3.43" x 2.8" 111 x 87 x 71 mm	
Weight	0.8 lb / 360 g	
Warranty	Two years	

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

### 3. BATTERY INSTALLATION

You should have received a CR2 3V battery with your ABL system.



Take a coin or flat head screw driver and unscrew the battery cap from the ABL housing. Insert the CR2 battery as shown in the image. Replace the battery cap to the housing and use the same tool to tighten it down.

#### **Installation:**

The ABL 1000/1500 takes minutes to install on your ATN Smart Scopes.

Please follow the next few steps to correctly install the ABL system on your ATN Smart Scope.

Please remove all contents from the box the ABL came in. Included are several adapter rings you would use to attach to the front objective of your ATN Smart Scope.

Select the adapter rings that screws into the front objective of the ATN Scope you will be using.



Unscrew the two Allen screws from the ABL housing and open the latch. Slide the ABL with the latch open over the adapter ring, making sure the protruding notch on the inside of the latch aligns with the insert thread on the adapter ring. Close, and return the housing latch to its original position. Use the original Allen screws to secure the ABL to the adapter ring. Your device should sit flush to the adapter ring, there should not be any movement when you attempt to move the ABL when pulled forward or pushed backward. The system was designed to handle recoil mitigating any movement of the adapter ring.

## 4. TURNING THE DEVICE ON



To turn the device ON use the toggle switch on the back of the ABL system, turn it to the right. To turn OFF the system, you would turn the toggle switch to the left.

## 5. PAIRING THE ABL TO YOUR SMART SCOPE

Open your Shortcut Carousel on your SMART HD scope and select the Wrench Icon to begin the process. In the System Settings, navigate and select the Settings option. Using your scopes controls, Select WiFi and Bluetooth.



Use the right arrow button to enter the WiFi and Bluetooth menu. There you will find the Rangefinder button, Pair/Unpair. Select the Pair option and Exit to Home Screen. You should see a circle form around the Bluetooth Icon on the top right corner of the Home Screen.

Press and hold the Bluetooth pair button on the side of the ABL system as indicated on the image.

Your ABL System should be now paired to your ATN Smart Scope.

## 6. ALIGNMENT PROCESS

This process would be the same for the ATN X-Sight 4K, ThOR 4 and X-Sight II HD.

We recommend performing the alignment process during the day time, this is so that you can see the Red Visible Laser on your target. Start at 50 yards, the Red Visible Laser is easier to see through your scope. If you are using ABL with your ThOR 4, you would need a spotting device, this is because thermal will not be able to see the Red Visible Laser.



In order to Zero the ABL system to your ATN Smart Scope, please follow the next few steps.

Remove the Allen screw that covers the Red Visible Laser. Once the Red Visible Laser port is exposed, proceed to the

ATN Smarts Scopes System settings. Navigate to the Profile/Zero Tab. Using your scope keypad and scroll wheel, select Zeroing ABL and press the OK button. This will activate the Red Visible Laser and the Range Finding Reticle in your scope. Make sure you are on a bench rest and your rifle is stable in a fixed position. Mark your target with the Red Visible Laser. If zeroing with your ThOR 4, place the Red Visible Laser onto a thermal target, and/or something the thermal scope can see. While your rifle is completely stable, adjust the range finding reticle with your Key pad and Scroll Wheel so it is aligned with the Red Visible Laser on the target. Once both the Red Visible Laser and Range Finding Reticle are overlaid on the same position, Press the OK button in order to save the alignment position. Your ABL should now be aligned with your scope.

## 7. CONTROLS

You will be able to use your ABL range finder with your scope once the ABL is paired with your ATN Smart HD scope and you have completed the alignment process. You will now be able to use the ABL with your scopes internal Ballistic Calculator. Please turn on your SMART scope's Ballistic Calculator in the advanced Shortcut Carousel, or through System Settings. Please refer to your X-Sight 4K, X-Sight II HD, or ThOR 4 manual for the exact steps. Also, make sure that you have all the correct Environmental and Ballistic Information setup in your Profile.

Once all those items are correctly setup, press the Function button on your X-Sight 4K or Thor 4. If you are using the X-Sight II HD, tap the Power button to activate the ranging function. Maintain the range finding reticle for 5 seconds on target to get an accurate reading. Once you get your range to target, the ballistic calculator will automatically adjust

your POI. Note, until you reset the range either manually or with ABL, your shooting solution will be for the last range used. Or, simply turn off the Ballistic Calculator and your scope will revert back to your Current Profile Zero settings.

Also, if you want to use the Shortcut Carousel to activate the ABL ranging feature, you can do so by selecting the Range Finding Shortcut designated with the FLAG icon.

Now you are ready to Make Every Shot Count!

## **8. TWO YEAR PRODUCT WARRANTY**

This product is guaranteed to be free from manufacturing defects in material and workmanship under normal use for a period of 2 (two) years from the date of purchase. In the event a defect that is covered by the foregoing warranty occurs during the applicable period stated above, ATN, at its option, will either repair or replace the product, and such action on the part of ATN shall be the full extent of ATN's liability, and the Customer's sole and exclusive remedy. This warranty does not cover a product (a) used in other than its normal and customary manner; (b) subjected to misuse; (c) subjected to alterations, modifications or repairs by the Customer or by any party other than ATN without prior written consent of ATN; (d) special order or "close-out" merchandise or merchandise sold "as-is" by either ATN or the ATN dealer; or (e) merchandise that has been discontinued by the manufacturer and either parts or replacement units are not available due to reasons beyond the control of ATN. ATN shall not be responsible for any defects or damage that in ATN's opinion is a result from the mishandling, abuse, misuse, improper storage or improper operation, including use in conjunction with equipment which is electrically or mechanically incompatible with or of inferior quality to the product, as well as failure to maintain the environmental conditions specified by



the manufacturer. This warranty is extended only to the original purchaser. Any breach of this warranty shall be waived unless the customer notifies ATN at the address noted below within the applicable warranty period.

The customer understands and agrees that except for the foregoing warranty, no other warranties written or oral, statutory, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, shall apply to the product. All such implied warranties are hereby and expressly disclaimed.

## **LIMITATION OF LIABILITY**

ATN will not be liable for any claims, actions, suits, proceedings, costs, expenses, damages or liabilities arising out of the use of this product. Operation and use of the product are the sole responsibility of the Customer. ATN's sole undertaking is limited to providing the products and services outlined herein in accordance with the terms and conditions of this Agreement. The provision of products sold and services performed by ATN to the Customer shall not be interpreted, construed, or regarded, either expressly or implied, as being for the benefit of or creating any obligation toward any third party or legal entity outside ATN and the Customer; ATN's obligations under this Agreement extend solely to the Customer. **ATN's liability hereunder for damages, regardless of the form or action, shall not exceed the fees or other charges paid to ATN by the customer or customer's dealer. ATN shall not, in any event, be liable for special, indirect, incidental, or consequential damages, including, but not limited to, lost income, lost revenue, or lost profit, whether such damages were foreseeable or not at the time of purchase, and whether or not such damages arise out of a breach of warranty, a breach of agreement, negligence, strict liability or any other theory of liability.**

## PRODUCT WARRANTY REGISTRATION

In order to validate the warranty on your product, ATN must receive a completed Product Warranty Registration Card for each unit or complete warranty registration on our website at [www.atncorp.com](http://www.atncorp.com). Please complete the included form and immediately mail it to our Service Center: ATN Corporation, 1341 San Mateo Avenue, South San Francisco, CA 94080.

## OBTAINING WARRANTY SERVICE

To obtain warranty service on your unit, End-user must notify ATN service department by calling **800-910-2862** or **650-989-5100** or via e-mail **[service@atncorp.com](mailto:service@atncorp.com)** to receive a Return Merchandise Authorization number (RMA).

When returning please take or send the product, postage paid, with a copy of your sales receipt to our service center, ATN Corporation at the address noted above. All merchandise must be fully insured with the correct postage; ATN will not be responsible for improper postage or, missing or damaged merchandise during shipment.

When sending product back, please clearly mark the RMA# on the outside of the shipping box. Please include a letter that indicates your RMA#, Name, Return Address, reason for service return, Contact information such as valid telephone numbers and/or e-mail address and proof of purchases that will help us to establish the valid start date of the warranty. Product merchandise returns that do not have an RMA listed may be refused or a significant delay in processing may occur.

Estimated Warranty service time is 10-20 business days. End-user/customer is responsible for postage to ATN for warranty service. ATN will cover return postage/shipping to continental USA end-users/customers after warranty

repair only if product is covered by aforementioned warranty. ATN will return product after warranty service by domestic UPS ground and/or domestic mail. Any other requested, required or international shipping method the postage/shipping fee will be the responsibility of the end-user/customer.

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

**NOTE:** 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.

**FCC Statement:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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.



**AMERICAN  
TECHNOLOGIES  
NETWORK CORP.**

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1341 San Mateo Avenue, South San Francisco, CA 94080.

Phone: **800-910-2862, 650-989-5100.**

E-mail: **service@atncorp.com.**

Site: **www.atncorp.com**

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