

WARNING:

LTAD-SN IS A CLASSES 1 LASER PRODUCT, OUTPUT 0.05-0.7 mW, WAVELENGTH 850 NM

LTAD-SNLL IS A CLASSES 1 LASER PRODUCT, OUTPUT 0.05-0.7 mW, WAVELENGTH 850 NM

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

IR LASER SIGHTS ATN LTAD-SN

STEALTH NEEDLE

ATN LTAD-SNLL

GREEN NEEDLE

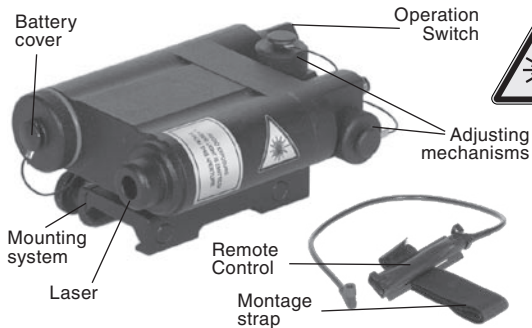


User Manual / User Information

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**AMERICAN
TECHNOLOGIES
NETWORK
CORP.**



ATN Corp. 20 S. Linden Ave., Unit 1B, South San Francisco, CA 94080, 800-910-2862 LTAD-SN		 www.atncorp.com
S/N:	Mfr. Date:	
Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001		

ATN Corp. 20 S. Linden Ave., Unit 1B, South San Francisco, CA 94080, 800-910-2862 LTAD-SNLL		 www.atncorp.com
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CLASS 1 LASER PRODUCT 850nm, 0.7mW CW CLASSIFIED TO IEC 60825-1, 2001-08

AVOID EXPOSURE LASER LIGHT IS EMITTED FROM THIS APERTURE
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SPECIFICATIONS

Wavelength	850 nm*
Output Power (2 levels)	0,05 mW; 0,7 mW**
Range	Up to 1000 meters
Boresight Retention	0.5 mrad
Beam spot size	25 mm at 50 m; 50 mm at 100 m
Adjustment step	(0,50±0,05) mrad (50 mm at 100 m)
Accuracy of adjustment after 1000 shoots	0,5 mrad
Accuracy of adjustment after 100 mount operations	1 mrad
Current consumption, max	up to 100mA (LTAD-SN), 4 mA (LTAD-SNLL)
Battery Type.....	CR 123, 3 V (AA configurations is also available per customer request)
Battery Life, min.....	20 hours (LTAD-SN), 300 hours (LTAD-SNLL)
Weapon mount adaptor	"Picatinny rail" MIL STD 1913
Temperature:	
- Operating	-40°C to +60°C
- Storage	-50°C to +70°C
Water Proof	20 m Submersion for 2 hours
Size	94 x 65 x 42 mm
Weight, up to	190 g

* Custom wavelength of LTAD-SN can be requested in the range between 800-870nm

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

APPLICATION

ATN LTAD-SN IR Laser Sight is a weapon mountable system that is intended for aiming at a target in conjunction with night vision goggles in low light conditions or night conditions.

The device is an optic-mechanical laser device, which forms a spot of infrared laser beam on a target that cannot be seen with the naked eye but can be seen with night vision devices.

Source of radiation is the semi-conductor laser diode, which invisible radiation is not dangerous to eyes. The device is a class 1 laser device by eye safe criteria of IEC 60825-1 and US CDRH via Laser Notice No. 50.

The device has a mount for a weapon, equipped with a mounting system, such as "Picatinny rail" MIL STD 1913.

LTAD-SNLL (Stealth Needle Long Life) has all the same features as the LTAD-SN except the unit comes with long life operating time of not less than 300 continues hours.

BATTERY ASSEMBLY

CR-123's battery negative pole is allocated on the back and positive pole on the front. **Danger: NEVER** use any other type of battery other than CR-123. Do NOT use rechargeable batteries.



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

ATN Corp. assumes no responsibility or liability for any errors or inaccuracies that may appear in this book.

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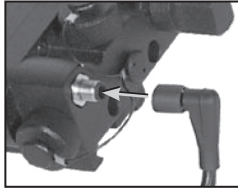
MOUNTING

Slightly loosen the fixing screws on the built in a mounting system of the device.

Place the device on the dovetail mount of a fire arm, making sure that the mount aligns with the receptor attachment of the screw grooves and tighten the fixing screws.

Remote Control:

Attach the Remote Control cable to connector on the body of device. Place the Remote Control on the weapon, suiting your shooting style best and grip. Fix the Remote Control in this position with a montage strap.



OPERATING

To turn the device on, rotate the Operation Switch from the OFF position to the desired operation mode.

Operation Switch has following positions/modes:

OFF - the device is off;

A - the device is on with output power - 0,05 mW;

B - the device is on with output power - 0,7 mW;

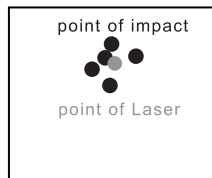
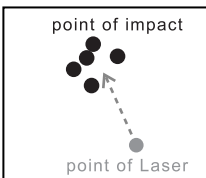
1 - the device can be used with the Remote Control in mode position with output power - 0,05 mW;

2 - the device can be used with the Remote Control in mode position with output power - 0,7 mW.



ZERO ADJUSTMENT

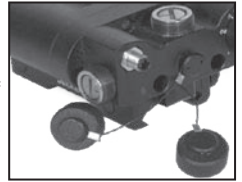
1. Fix the laser sight to a rail system on a weapon.
2. Place the weapon in a vise or shooting bench.
3. Place a target about 25 meters away.



4. The next step assumes that your weapon's iron sites or other sighting system is correctly zeroed for the 25 meters. If not then with the Laser turned off. Fire 5 rounds at the target to see the point of impact grouping. If necessary adjust your sites to this point of impact.

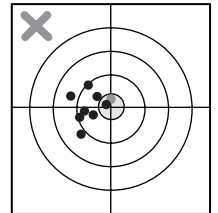
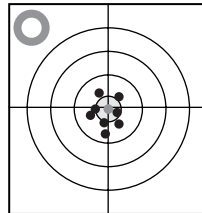
5. Take aim again using the exact same sight picture as in step #4. Turn on the laser sight and you will see the difference in distance between the laser dot and the real point of impact.

The device has Windage and Elevation adjustments for horizontal and vertical zeroing. The beam of laser moves upward and leftward on the aim if mechanisms rotate clockwise, and moves downward and rightward if mechanisms rotate anticlockwise. These mechanisms have protective covers



Make a correction by rotating the adjustment mechanisms of device. Each step of rotation of adjustment mechanism moves the beam of device on the 5cm at 100m distance.

6. Now use the laser sight to aim at the target and shoot another group of 5 rounds. If the red point of laser is near of points of impact, then the zero adjustment is accomplished.



WARNING / CAUTION

- When zeroing the laser follow all standard fire-arms safety precautions.
- If used on different weapons then zero adjustment may be required again.
- The Laser sight has an anti-shock design, but a serious blow to the Laser, RIS or Rail may require re-zeroing.
- Warning! User is not to modify the unit or remove protective covers or housings.
- Service is only to be handled by authorized factory trained technicians. No user serviceable parts.
- Do not point laser or allow laser light to be directed or reflected toward other people or reflective objects.
- The potential hazard of eye exposure to laser radiation if the included instructions are not followed
- The laser is never to be operated if the unit is defective or the cover or seal is damaged.

MAINTENANCE

Warning: The Laser sights are not to be opened or modified by the customer, etc, except for battery change.

- There is no scheduled maintenance necessary to keep the product in compliance.

This applies to things like replacement of emission indicators should they burn out, etc.

- Do not disassemble the device.

2 YEARS 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 be-

- Check the solidity of the mounting of devices.
- Tighten the fixing screws if needed.
- Always turn the device off, when device is not in use.
- Remove the battery before storage for a long time.
- Clean the device with flannel serviette. Do not use solvents, petrol etc.

ing for the benefit of or creating any obligation toward any third party of 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. 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, please contact our Customer Service department and request an RMA number. Once you have received your RMA # please mark this # on the outside of the shipping box and 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. Packages that do not have an RMA # clearly marked on the outside of the package will be delayed in being processed.

For customer service and technical support, please contact
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