

ILLUMINATED SIGHT MANUAL **INSTRUCTION MANUAL**

PLEASE DO NOT RETURN THIS PRODUCT TO THE STORE!

If you need assistance, replacement parts or have questions regarding the warranty please contact BSA® Optics customer service:

Phone: 954-581-2144 1700 N 2nd St, Rogers, AR 72756

BSA OPTICS RED DOT SERIES

Rapid target acquisition, pinpoint accuracy and wide field of view make the BSA® Red Dot series ideal for handguns, rimfire, rifles, shotguns, pistols, black powders, and crossbows. Each Red Dot has a finger adjustable rheostat for variable reticle brightness control, and anti-reflective coating. The RD30 family of sights have an integrated 3/8" and 5/8" mounting system for optimum performance. Selected models feature a state-of-the-art RGB™ red, green, and blue dot reticle for all-day shooting versatility. All Red Dots feature wide field of view, unlimited eye relief and multi-coated optics.

The BSA® RD series illuminated sights have a standard 5 MOA center dot reticle. RGB™ models have an adjustable rheostat

equipped with red, green, and blue dot with 3 intensity settings. Non-RGB models illuminate in standard red for all light conditions and their adjustable rheostat has 11 intensity settings and a standard 5 MOA center dot. The TW30RDLL has a 9-position intensity control and an integral laser.

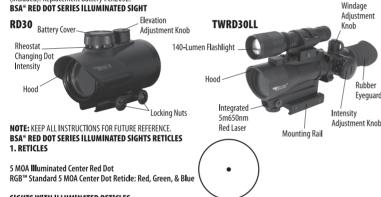
All models feature a new slanted hood that acts as a built-in sunshade to minimize unwanted glare, and operate on a standard

3-wolt lithium battery (included). Replacement battery #CR2032. The TW30RDLL includes a detachable tactical light that uses 2 (included) CR123a batteries.

It is important to adjust the center dot intensity to the current shooting light conditions **TABLE OF CONTENTS**

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The BSA* Red Dot is a lightweight sight for all types of shooting, especially close in and quick target acquisition under any light condition. The integrated 3/8" and 5/8" mounting system is perfect for rifles, air guns, shotguns, pistols, and bow/cross bows. The TW3ORDLL mount is optimized for a picatinny mount commonly found on tactical weapons such as an AR-15 flat top. When you turn the sight on, a small red dot appears in the center of your scope. You can then adjust the brightness of the dot, depending on the brightness of your surroundings. The TW30RDLL also has an integrated laser. Both operate on a standard 3-volt lithium battery (included). Replacement battery #CR2032.



SIGHTS WITH ILLUMINATED RETICLES

The battery switch housing is set on top of the eyebell in alignment with the elevation turret. BSA offers a standard 11 position rheostat, which uses a lithium CR2032 3V battery. The battery is protected against accidental discharge during shipping by a plastic bag. The TW30RDLL has a 9-position rheostat opposite the windage turret.
On sights with settings from 1 to 11 use setting 1 through 3 for lowest light conditions, 4 through 6 for dusk and dawn, 7 through

9 for overcast or doudy days and 10 through 11 for bright sunny days. Individual scopes may vary, and light conditions will change so for best performance always set the dot at the lowest setting that it can clearly be seen. If the dot appears to have a halo or be out of focus, the brightness setting should be reduced until it is clear and sharp. On a 9-position rheostat use position 1-3 for lowest light conditions, position 4-6 for cloudy or overcast days, and position 7-9 for bright daylight.

With settings from 1 to 3, use setting 1 at lowest light, 2 cloudy or overcast and 3 for brightest conditions. On scopes with red, green and blue dots use the color that shows up the best against the background you are looking at and set the brightness to

match the light conditions.

- Remove the battery compartment cap by turning it counterclockwise.

- Remove the battery compartment cap by turning it countercrockwise.
 Insert the battery with the positive (+) side facing up.
 Replace the cap by turning it clockwise and tighten to avoid moisture or water from getting inside.
 The illuminated feature is activated by turning the rheostat switch to number 1. Each click will increase the intensity, 11 being the maximum on an RD30, 3 is the maximum on a red, green and blue dot model and 9 is the maximum on the TW30RDLL.
- To turn the illuminated reticle off, turn the knob to the zero position
 To turn the TW30RDLL laser on, set the rheostat to the ON position.
- To change the batteries on the TW30RDLL tactical light, remove the end cap by turning it counterclockwise. Insert two CR123a batteries + side out and replace cap by turning clockwise

2. FUNDAMENTALS OF AN ILLUMINATED SIGHT

Six Basic Elements Form the System Of An Illuminated Sight I. Objective Lens

Lens responsible for light that gets inside the scope. In illuminated sights, the objective lens is angled, this is not a defect. It is angled for the proper operation of the sight.

II. Image System

small metal tube with a 50% to 70% transmission mirror, set in a 15-degree slanted angle III. Windage and Elevation System

The image system tube is fixed at one end and free at the other closest to the objective lens, the windage and elevation screws serve as supports for this end while providing movement or correction to the reticle to adjust the aiming point to the real point

The reticle replaces the iron sight system that usually comes with rifles. In the case of Illuminated Sights, the reticle is a projection of light forming one or more reticles in one or more colors, depending on the reticle design

The ocular lens seals the end of the sight closest to the eye, responsible for the final collimation of the image. VI. Rheostat Switch

Next to the on/off function, it regulates the intensity of the LED diode. On the TW30RDLL it also turns on the integral laser.3. MOUNTING THE SIGHT

Set the rail onto the base. Align and set the crossbolts into the cut grooves of the base and tighten each crossbolt with the help of

4. FOCUSING THE SIGHT

Most of the illuminated sights in the market do not have magnification. In the last few years some models appeared on the market in a 3X version, but in both cases the sight does not require focusing.

In illuminated sights, the parallax is set to 50 yards or meters at the factory. The RD30 parallax is set to 50 yards at the factory. The TW30RDLL is set at 100 yards.

5. BATTERY REPLACEMENT

REPLACING THE BATTERY

With a coin or screwdriver, unscrew the battery cap. Place the battery with the positive side up (+ symbol), then replace the cap are thin the housing firmly to make sure that it is watertight.

Duracell model DI 2032. Sunrise model CR2032. Energizer model ECR2032.

Turn the switch on, turn the switch knob dockwise to increase the intensity of the reticle brightness, and counterclockwise to decrease it.

REPLACING THE TACTICAL BATTERY

Remove the end cap by turning it counterclockwise. Insert two CR123a batteries + side out and replace end cap by turning it

6. MAINTAINING YOUR ILLUMINATED SIGHT

DO NOT attempt to disassemble or clean the sight internally. This will invalidate the warranty. If the scope requires repairs or adjustment, complete instructions can be found in the warranty

The external optical surfaces should occasionally be wiped clean with the lens cloth provided, a soft lint-free cloth, or an optical quality lens paper. Keep the protective lens covers in place when the scope is not in use. Remove any external dirt or sand with a soft brush to avoid scratching the finish. Wipe the scope with a damp doth, following with a dry cloth. Store the unit in a

TROUBLESHOOTING TIPS

- Inaccuracy Issues

 First check your mount. Using your bare hands only, softly twist the sight in the rings, check for any movement. If there is any movement, re-tighten the mount. Non-permanent thread lock tight is recommended.
- Use a bench rest or sandbag to support the forearm and butt stock when making windage and elevation adjustments. This will help eliminate movement.

 Always follow through with every shot.

 Always use the ammunition of the same bullet type and weight.

 Check that your fiels properly bedded in the stock. A loose stock can create changes to the point of impact.

- Check that your barrel and chamber are clean. Damaged rifling or excessive grease can cause inaccurac

Always adjust in small increments.

For questions on our products and for complete instructions on warranty or returns, contact BSA Optics Customer Service at

(954)581-2144 or visit bsaoptics.com

(954)581-2144 or visit basoptics.com
ONE (1) YEAR LIMITED WARRANTY
BSA* warrants this product to be free of original defects in material and workmanship for a period of one year. This warranty is not transferable and as such is limited to the original purchaser. This warranty applies only to goods purchased in the United States and Canada. BSA* will replace this product without charge for parts and labor contingent upon an inspection by BSA* that the product does not indicate a defect caused by tampering or disassembly, or any other warranty exclusion as listed within this returns policy.
THIS WARRANTY GIVES YOU SPECIFIC LEGAL BIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. AS DEFENED BY FEDERAL LAW,

THIS IS A LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS OF IMPLIED WARRANTY, SO THIS LIMITATION MAY NOT APPLY TO YOU. IN THAT EVENT, ANY SUCH IMPLIED WARRANTY IS LIMITED TO THAT REQUIRED BY LAW. BSA® SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS OR OTHER ECONOMIC OR COMMERCIAL LOSSES. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. BSA® MAKES NO IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS (FOR A PARTICULAR PURPOSE). THE SOLE REMEDY PROVIDED IN THIS WARRANTY IS REPLACEMENT OF THE PRODUCT.

FOR WARRANTY

Product should be returned postage prepaid to the address provided in the general returns policy. CHARGES FOR OUT OF WARRANTY

If your product needs replacement, call Customer Service at (954) 581-2144 for replacement charge. We accept Visa and Mastercard. When paying by check or money order, please send with product. Attach to the product your name, street address (Not Post Office Boxes) and description of the problem. Package and send to BSA® Optics Service Center. Standard \$10.00 shipping and handling fee will apply for return shipping.

GENERAL RETURNS POLICY

All refunds are subject to condition of merchandise received by BSA®, and must comply with the return policy **ALL RETURNS** Shipping and Handling Fees: Consumer is responsible for all shipping fees to BSA®, Inc., as well as all return shipping fees after replacement. All shipping fees are nonrefundable.

RESTOCKING FEES

Items that are used, not in original packaging or otherwise not in new, sellable condition are subject to a minimum fifteen percent (15%) restocking fee. DO NOT ATTEMPT TO DISASSEMBLE ANY ITEMS. ATTEMPTS TO CHANGE THE FUNCTION OR APPEARANCE OF ANY ITEM YOU PURCHASED FROM US WILL VOID THE WARRANTY AND YOUR RIGHT TO RETURN THE PRODUCT FOR A FULL REFUND.

ALL EXCHANGES WILL BE PROCESSED WITHIN TWO WEEKS FROM DATE OF RECEIPT OF PRODUCT AT OUR SERVICE CENTER RETURN CONDITIONS All returns must include with the product:

- · Your proof of purchase/receipt with the product, the reason for your return, and your phone number on the
- A clearly written note explaining the nature of the problem, including your name, address, and telephone
- A check or money order in the amount of \$10.00 to BSA* for return shipping and handling on all items
 SHIPPING DAMAGE AND LOST PACKAGES

- If an item arrives damaged as a result of shipping, we will be happy to exchange it for you. An insurance
 daim must be filed and has to be finalized before compensation is issued to the customer or product is
- Notify BSA® within 3 days of receipt for any damaged or missing merchandise to initiate a claim

DO NOT discard any packaging or paperwork to facilitate the investigation process if necessary WARRANTY AND NON-WARRANTY

- · All lasers, red dot sights, scopes with electronic reticles or lasers, and pistol scopes carry a one (1) year
- Illimited warranty.

 Warranty includes parts and replacement of any factory defect of material or workmanship. A copy of your original sales receipt is required unless your warranty information has been registered. (If you are unable to provide a purchase receipt, standard replacement fees will apply)

 A check or money order to BSA* in the amount of \$10.00 is required for return shipping and handling on all
- include with your product a detailed letter explaining the nature of the problem. Be sure to indicate your name, address, and telephone number. Allow six (6) weeks.
- In the event of a non-warranty replacement, you will receive an estimate prior to replacement. It is the
 customers' responsibility to ensure the safe return of any goods. We recommend you use a method of
 shipping that provides you with a tracking number and insurance options.

BSA® IS NOT LIABLE FOR ANY DAMAGED, LOST OR STOLEN MERCHANDISE DURING SHIPPING. WARRANTY EXCLUSIONS

- WARRANT ONLY APPLIES TO DEFECTS THAT OCCUR WITHIN NORMAL USE OF THE PRODUCT.
 WARRANTY SPECIFICALLY EXCLUDES PRODUCTS UNDER THE FOLLOWING CONDITIONS
- Used in a manner other than specified in the operations manual.
 Not properly maintained in compliance with handling instructions

Misused, neglected, or tampered. Altered or repaired, or evidence of attempt of alterations or repairs. WARRANTY SPECIFICALLY EXCLUDES THE FOLLOWING AREAS OF PRODUCTS

- · WINDAGE AND ELEVATION CAPS
- LENS COVERS AND SUNSHADES
 MAINTENANCE AND CLEANING SUPPLIES
- Should BSA® choose to replace the product, and the product is no longer available at the time warranty service is required, a substitution of similar

□ Warranty

☐ Reliability/Ruggedness

performance and equal value will be made.

To return a BSA® Optics product for replacement, or refund, ship to:

BSA® Optics Service Center, 1700 N. 2nd St., Rogers, AR 72756 WARRANTY REGISTRATION INSTRUCTIONS

☐ Features

☐ Advertisement

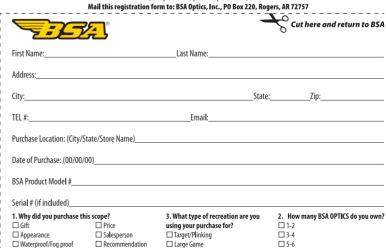
WARRANTY REGISTRATION INSTRUCTIONS
In order to secure your warranty is validated, complete the below registration form.

Registering your purchase ensures:
A file copy of your serial number and date of purchase is documented in our system for warranty purposes
Allows us to produce products suited to customer needs
Thank you for purchasing an exclusive BSA OPTIC. You've made the perfect choice in choosing our product. BSA OPTICS is
confident that it will give you years of incomparable and matchless performance. BSA is managed by hunters. So we know how
important it is to have a scope that you can trust!
To activate your warranty and to better understand your scope purchase, please take a few moments of your time to answer the questions below so we
can help you better.

can help you better. BSA appreciates our customers feedback so do not hesitate to send us any suggestions or input you have on our products Send any correspondence to: **BSA OPTICS CUSTOMER SERVICE, BSA Optics, Inc., PO Box 220, Rogers, AR 72757**

or visit us at www.bsaoptics.com (We respect the privacy of our customers, be assured we do not sell or share your personal information) Please fill in the below questionnaire and return within 10 days

(Each purchase requires a separate form)



☐ Varmint

☐ Small Game

Mail this registration form to: BSA Optics, Inc., PO Box 220, Rogers, AR 72757

☐ 7 or more