

# **ADE ADVANCED OPTICS**

**RAPTOR (RD3-020)**

**RED DOT SIGHT**



**USER MANUAL**

## Product description

The RAPTOR is equipped with ADE smallest 2 MOA illuminated red dot, designed to be used on pistols, shotguns, and rifles. It comes with a removeable picatinny mounting plate and can also be attached to a varieties optics ready handgun with RMR footprint mounting plate/optics cut.



- ① Lens
- ② Allen screws
- ③ Elevation adjustment Dial
- ④ Windage adjustment Dial

⑤ Battery housing

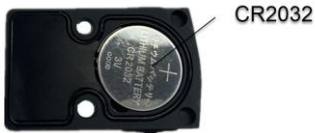
⑥ Sealing plate (for using on some optics ready pistol such as Glock MOS)

### Technical Specifications

Specifications	
Magnification	1x
Objective (mm/in)	22x16/ 0.87x0.63
Reticle	2 MOA dot
Color	Red
Brightness settings	1-10 levels of intensity
Shock Test	600G/1000 times
Battery type	CR2032
Battery life (hour)	500-30000
Mount type	RMR

	Footprint
Waterproof	Rain-Proof
Dimension (mm/in)	27.5x25x28/ 1.47x1x1.1
Weight (g/oz)	30/1.06

## Installing the Battery



Put new battery into the battery housing, with battery part number CR2032 facing outward,

then use the sealing plate⑥ to cover the battery housing. The sealing plate⑥ is not necessary part. It does not need to be used on RMR Optics Cut where red dot sit on. It is only needed when use need extra elevation, or for some Optics Ready handgun needing a shim such as Glock MOS.

### **Powering up & Brightness Adjustments**

To turn the unit on, press and hold the + or - button for 2 seconds. To turn the unit off, press and hold both + and - buttons for 2 seconds. To adjust the brightness, quick press + button to increase brightness, quick press - button to decrease the brightness

The Raptor has Motion-On/Wake-Sleep technology. While Raptor is turned on, the red dot illumination goes sleep after five minutes of inactivity, but when any motion or vibration is

detected, it instantly switches on illumination at the previous brightness setting. When the unit is powered off, the motion sensor is turned off too.

### **Windage and Elevation Adjustment**

Turning the elevation screw ③ clockwise will move the dot down, this will move the shot up. Turning the elevation screw anticlockwise will move the dot up, this will move the shot down.

Turning the windage screw ④ clockwise will move the dot left, this will move the shot right. Turning the windage screw anticlockwise will move the dot right, this will move the shot left.

The windage and elevation adjusters should never be moved all the way to either extreme in adjustment. It is possible that over-adjustment will damage the sight. If the adjuster resistance increases, the limits of adjustment travel are

being approached. Adjust further only with caution. As the limits of the adjustment are reached, the adjustment

Depending on the pistol, some pistols need a One-degree shim to give extra range of elevation across a wide range of firearms. Should you feel any resistance from the mechanism whilst zeroing the elevation please fit the shim between the sight and the mount with the thickest part at the rear. The shim can be obtained by contacting ADE.

## **Mounting**

**WARNING:** Before installing the optic on a firearm, ensure the firearm is CLEAR. Remove the magazine, pull the charging handle to the

rear and ensure the chamber is clear.

The Raptor red dot is designed to fit any Optics Ready handguns, pistol mounting plates/slides/cuts that are compatible with Trijicon RMR/SRO, Holosun 407C/507C/508T red dots.

## **Sighting In**

After mounting, a sight-in of the red dot at 25 yards will be helpful.

Using the center of the three-shot group as a reference, make the necessary adjustments for

Elevation and Windage correction. Using arrows for reference, adjust dials in the direction you wish the group to move.



You can also repeat the above calibration at different distances according to your requirements.

## **Maintenance Cleaning**

The red dot sight will require very little routine maintenance other than periodically cleaning the exterior lenses. If desired, the exterior lens may be cleaned by wiping with a soft, dry cloth.

When cleaning the lenses, be sure to use products that are specifically designed for use on coated optical lenses.

- Be sure to blow away any dust or grit on the lens prior to wiping the surface.
- Using your breath, or a very small amount of water or pure alcohol, can help remove stubborn things like dried water spots.

## **Trouble shooting**

Please also fully read the separate FAQ instruction that comes with the red dot.

If the red dot does not illuminate, please check the following before returning the red dot for service:

- Is the battery oriented correctly? Be sure the battery is installed with the + side facing upwards.
- Is the battery dead? If so, replace the battery.

If shot does not hold zero, please check:

- Verify the sight is mounted securely to the firearm.

## **Warranty**

This product carries 1 Year WARRANTY. This product is warranted against original defects in material and/or workmanship for the length of time specified by this warranty, provided, however, that the unit has not been abused, taken apart or tampered with in any way whatsoever. This warranty is limited to the original purchaser and is not transferable. This warranty applies only to products purchased in the United States of America. Any return made under this warranty must be accompanied by the items listed below:

- 1) A check/money order in the amount of \$10.00 to cover the cost of postage and handling
- 2) Name and address for product return
- 3) An explanation of the defect
- 4) Proof of Date Purchased
- 5) Product should be well packed in a sturdy outside shipping carton to prevent damage in transit, send to the address listed below:

Ade Advanced Optics

2050 Beavercreek rd

Ste101-213

Oregon City. OR 97045

We shall not be liable for any consequential, incidental or contingent damages whatsoever.

Some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Non-warranty repairs or refurbishing of your product scope are always provided at a reasonable cost.

For products purchased outside the United States please contact your local dealer for applicable warranty information.

**ADE ADVANCED OPTICS**

[www.adeoptics.com](http://www.adeoptics.com)

CAUTION: Looking the sun directly  
through this sight may cause  
permanent eye damage.