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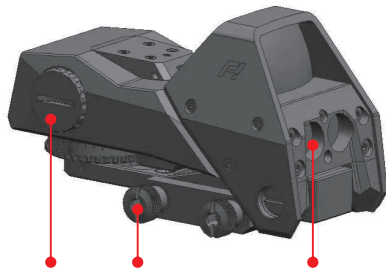
SHARPER900

RED DOT RANGEFINDER

Product standard configuration: lens cloth, adjusting wrench

This manual will help you optimize your viewing experience by explaining how to utilize the SHARPER's features and how to care for it. Read the instructions carefully before using your SHARPER.

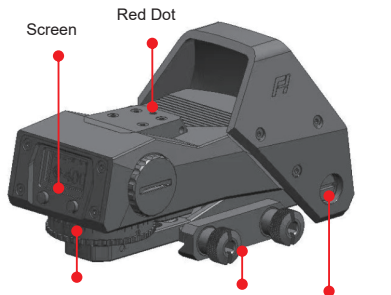
Rugged, compact and 110% reliable, the SHARPER Red Dot is designed from the ground up to enable rapid and accurate short/mid-range shooting under the most stressful and harshest of field conditions



Battery

Lock
screw

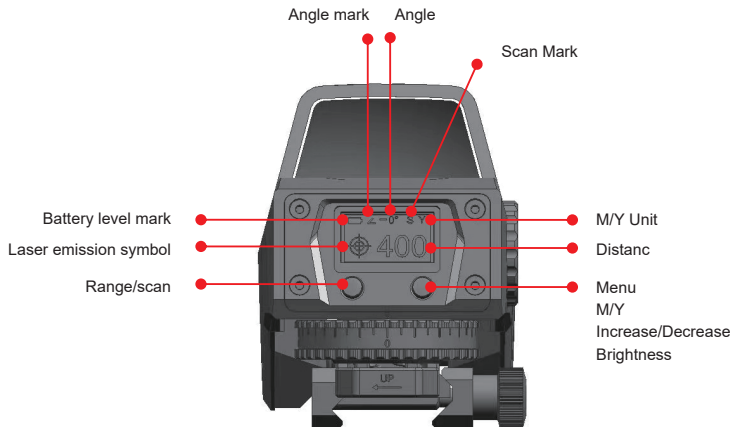
Laser
rangefinder



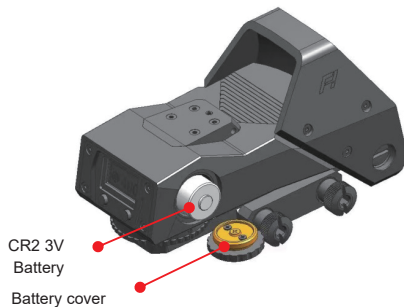
Elevation
Adjustment

Low
mount
base

Windage
Adjustment



Battery



The positive (+) side facing outwards

To install or replace the battery, unscrew the battery cover and install a new battery, with the positive terminal (+) facing outwards. Then tighten the battery cover

Technical parameters :

Category	SHARPER 900
Adjustment Increments	0.5 MOA
Magnification	1X
Objective lens diameter(mm)	38X20
Reticle	4MOA
Overall Length(mm)	115.8
Overall Width(mm)	50.3
Height(mm)	68.5
Weight	420g
waterproofing	IP54
Total Elevation Travel	100MOA
Total Windage Travel	100MOA
Measuring Range	10-900YD
Laser Type	Class 1
Measurement Accuracy	±1YD
Distance Display Increment	0.1YD
Divergence	1.5mrad
Angle Measuring Accuracy	±0.5°
Angle Range	±90°
Communication Method(optional)	Bluetooth
Red dot wavelength	650nm
Wavelength	905nm (laser class 1)
Launching Caliber	12mm
Receiving Caliber	11mm
Battery	CR2-3.0V
Operating Temperature	-10 to 50°C
Remote control	optional
Recoil Level	0-800g/500ms
Laser Pulse Duration	10-100ns



This red dot sight has a blind spot of 10 yards. Make sure your target is 10 yards away

Boot

SHARPER has passed special calibration device before leaving the factory, the red dot and the ranging optical axis have been adjusted parallel, so you do not need to adjust again. All you do is adjust the overall elevation and windage of the SHARPER at zero.

- boot

To open SHARPER, press the RANGE key for 5 seconds,
Off, press the RANGE key for 5 seconds.

Measurements:

1. After starting the device, press the RANGE key for single measurement
2. Press the RANGE key twice to enter the scan mode. The S mark appears at the top
3. Meter/yard conversion: Press the MENU button for 2 seconds to convert the current measurement unit from yard to meter or from meter to yard
4. Press the MENU key to enter the brightness adjustment, and each press will lower one level. There are 7 levels in total. Anyway, the SHARPER red dot automatically switches off for 17 minutes..

Brightness Adjustments

Adjust the illumination intensity using the MENU button:

- Tap the MENU to increase or decrease brightness.

Windage and Elevation Adjustment

The SHARPER features adjustable elevation and windage dials with 0.5 MOA clicks.

Note: The adjustments are protected by a lock screw which must be loosened with the hex wrench before any adjustments are made.

One click yields one MOA of adjustment.
One MOA = 1.05 inches @100 yards.

To adjust the elevation and windage settings:

- Loosen the Adjustment Lock Screw 1 1/2 turns.
- Turn adjustment dials in the appropriate Up/Down or Left/Right direction as indicated by arrows.
- Re-tighten lock screw after making adjustments.

MOUNTING THE SHARPER

The Red Dot is shipped from the factory with an installed low rail mount that clamps to a Picatinny spec base rail. Note: If your firearm is not already equipped with a Picatinny base rail, this type of base may be purchased from many firearms dealers.

- Attach the Razor to the Picatinny base rail, making sure the recoil lug is solidly seated in the base groove. Adjustment side of Sharper should face the shooter.
- Check to see that the clamp is fully down and hooked around the outside of the base.
- Press the SHARPER down and forward toward the muzzle and, using the supplied hex wrench, firmly tighten down the clamp screw.

SIGHTING IN

After mounting, an initial sight-in of the Razor Red

Dot at short range (10–15 yards) will be helpful. Final sight-in should be done at the desired distance (typically 50–100 yards).

ZERO

1. Be sure the windage and elevation lock screw is tight before firing. Fire a three-shot group as precisely as possible at short range (10–15 yards).

- Loosen the Windage and Elevation Adjustment

Lock Screw before adjusting.

- Using the center of the three-shot group as a reference, make the necessary adjustments for windage and elevation correction. Using arrows for reference, adjust dials in the direction you wish the group to move. At 10 yards, each click will yield about 1/10 inch of adjustment. At a distance of 10 to 15 yards, try to center the group about 1.5–2 inch low.

Using the center of the three-shot group as a reference, make the necessary adjustments for windage and elevation correction. Using arrows for reference, adjust dials in the direction you wish the group to move. At 10 yards, each click will yield about 1/10 inch of adjustment. At a distance of 10 to 15 yards, try to center the group about 1.5–2 inch low.

- Re-tighten the lock screw.

2. Fire a three-shot group at final preferred sight-in distance (50–100 yards).

- Loosen windage and elevation lock screw before adjusting.

- Using the center of the three-shot group as a reference, make necessary adjustments for windage and elevation correction. Using arrows for reference, adjust dials in the direction you wish the group to move. At 100 yards, each click will yield about 1 inch of adjustment.

- After achieving satisfactory zero, re-tighten lock screw.

3. Fire a final three-shot group to confirm proper adjustment. Repeat as necessary.

- Confirm that all mounting screws and lock screw are snug and tight.

MAINTENANCE Cleaning

The SHARPER Red Dot 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 such as the Fog Free Cleaning Kits.

- 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.

Troubleshooting

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 outwards.
- Is the battery dead? If so, replace the battery.



Tango Innovations Inc

www.tangoinnos.com