

LEAPERS[®], INC.

USER MANUAL



T4 PRISM SCOPES

USER MANUAL

Leapers[®], Inc.

Proudly Presents



**RANGE
ESTIMATING SCOPE**

**RETICLE
INTENSIFIED SCOPE**

TOTAL SOLUTION TO YOUR NEEDS

-COMMITMENT TO BEST QUALITY, BEST VALUE AND BEST SERVICE-

www.LEAPERS.com

32700 Capitol Street, Livonia, MI 48150, U.S.A.

Tel:(734)542-1500

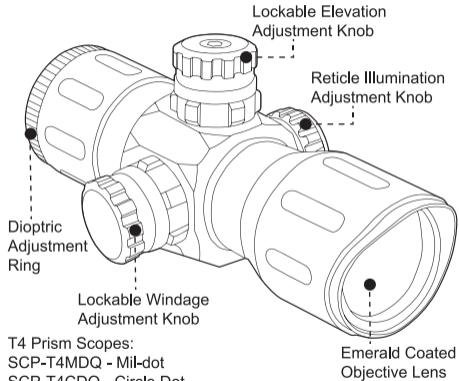
Fax:(734)542-7095

Email:office@leapers.com

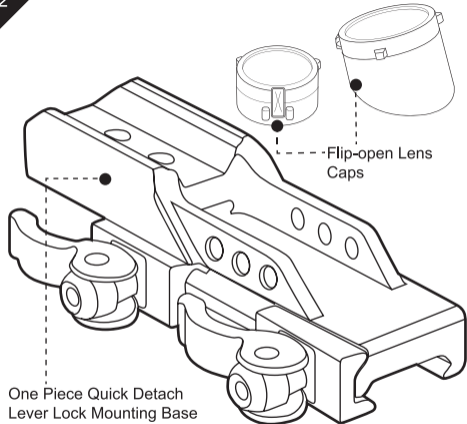
T4 PRISM SCOPES

1

2



T4 Prism Scopes:
SCP-T4MDQ - Mil-dot
SCP-T4CDQ - Circle Dot
SCP-T4TDQ - Target Dot



A. MAJOR FEATURES

- ▶ **Built on True Strength Platform, Completely Sealed and Nitrogen Filled, Shockproof, Fogproof and Rainproof**
 - Rugged one piece tube construction suitable for all types of terrains/weather conditions.
 - Smart spherical structure (SSS) to achieve the most responsive, precise and reliable windage and elevation adjustment.
 - Precision machined to exact tolerances from aircraft-grade aluminum alloy to achieve the desired performance under the heaviest recoil.
 - Completely sealed and nitrogen filled to eliminate risk of water ingress and fogging.
 - Positive and precise click value for accurate and consistent shooting.
 - Most disciplined quality control and demanding shock and vibration testing to guarantee optimal recoil resistance capabilities and most consistent performance.

- ▶ **Multi Layer Lens Coating for Optimum Light Transmission**
 - Unique high tech coatings applied to lens elements ensure best light transmission for optimal optical performance.
 - Multi layer coatings ensure maximum utilization of all ambient light for the best resolution and clarity.
- ▶ **Wide Field of View and Tactical Mil-Dot, Circle-Dot or Target-Dot Reticle**
 - Wide field of view and edge to edge lens clarity makes it easy to pick up quarry on the peripheral edge of the sight image.
 - The precise tactical Mil-Dot reticles allows the shooter to estimate ranges for most optimal aiming and shooting performance.
 - The Circle-Dot and Target-Dot Reticles allow for quick aiming and instant target locking.
- ▶ **High Quality Precision Machined Parts**
 - Precision machined parts guarantee smooth and

accurate operations and deliver consistent and reliable performance.

▶ **Illuminated Reticle with Red/Green Dual Illumination**

- Adjustable intensity of the illuminated reticle gives optimum reticle clarity in variable light conditions, increasing accuracy in daylight and twilight environments.

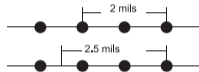
B. RANGE ESTIMATING

Regular mil-dot reticles found on the market usually has 4 dots on each direction of the cross hair, giving you 9 different aiming points for either windage or elevation. If you count the 2 inner tips of the opposite duplex cross hairs, you get 11 aiming points. Our own 24 Mil-Dot Reticle (TRE) has 6 dots on each direction of the cross hair, giving you 13, 15 or 19 aiming points including the inner tips of the duplex cross hairs. Some models even come with a 40 Mil-Dot Reticle which has 10 aiming points for direction.

- ▶ Range estimating requires common knowledge/experience about your target's actual width or height.
- ▶ Under the calibration power, 1 mil in a scope reticle is the distance from the center of one dot to the center of the next dot. For this scope, 1 mil equals 3.44 MOA.

▶ The power of this scope is fixed at 4X. Since the reticle is calibrated at 10X, the distance seen between 2 dots is 2.5 mils or 8.6 MOA. ($3.44\text{MOA} \times 2.5 = 8.6\text{MOA}$)

▶ Set your scope at the proper power specified by the mil-dot chart. Place the center of the dot against one edge of the target and measure to the opposite edge of the target.



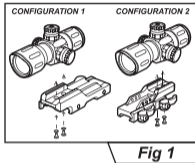
▶ Once the target has been measured in mils, use the specific formula for this scope below to estimate the distance to the target.

$$\frac{\text{Height or Width of Target in Meters} \times 400}{\text{Height or Width of Target in Mils.}} = \text{Range in Meters (1M = 1.0936 Yards)}$$

(A pre-calculated Mil-Dot table is included with your scope to show the most used distance estimates.)

C. INSTALL QD MOUNT

The mounting base has 2 screw holes and can be used bi directionally. The bi-directional feature allows the user flexibility in installation to achieve optimal eye relief. To install, locate two set screws and put a spring washer onto each screw. Based on your eye relief preference, select the desired direction of the QD mount(configuration 1 or 2), fit the mount against the mating base on the scope, and align the mount holes with the dot sight holes. Install and fasten the set screws to fully secure the mount as shown in **Fig 1**.

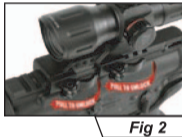


D. INSTALL THE SCOPE ONTO THE RIFLE

- a. Hold the rifle in your natural shooting position. Place the mount onto the Picatinny rail on the rifle to estimate the best position for your shooting preference. Then set the rifle on a steadying device.

- b. **CAUTION:** always double check to ensure that screws attaching the mounting base to the scope body are securely tightened before shooting.

- c. Turn both Cam Levers toward its unlocked position as shown in **Fig 2**. Place the QD mount on the Picatinny Rail at the desired position. Make sure to seat the cross bolt into a selected rail slot.
- d. Turn the Cam Levers toward the locking position to begin locking the QD mount on the rail, but do not complete the locking motion, leaving some travel distance to allow for adjustment.
- e. Use the included Allen wrench to adjust the Hex Screw at the side of the cam for proper tension and fit against the rail. Adjust clockwise to increase the tension and tighten the clamping width. Adjust counter-clockwise to decrease the tension and increase the clamping width.
- f. The optimal tension is achieved when the side plate first makes contact with the Picatinny rail while the Cam Lever still has enough travel left for you to securely snap into its locking



position. Once you achieve the optimal tension, push the Cam Lever all the way for a positive lock onto the rail. You may repeat steps d and e if needed to find the best clamping tension and locking position for your mount. This process adapts the mount to your specific rail.

E. INSTALL BATTERY

- The battery is housed inside the Red/Green Illumination Rheostat as shown in *Fig 3*.
- Firmly hold the housing of the Rheostat with 2 fingers.
- Use your other hand to open the battery compartment by unscrewing the top cap counter-clockwise.
- Remove the battery (if there is one) and install a new one.
- Replace the cap and screw it clockwise to tighten.
- Dial the Rheostat to turn on the illumination and verify its brightness at each position.



Fig 3

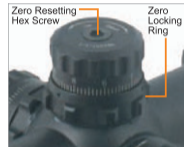
F. ZERO THE SCOPE

- The Windage and Elevation Adjustment Target Knobs have a unique Resetting Screw design. An Allen wrench is provided with the scope for adjustment.

b. ZERO LOCKING

W/E Locking Rings are set at "locked position" for a new scope.

Finger Tighten the Zero Locking Ring by rotating clockwise by 40 - 70 degrees. Do not over-tighten. When the Zero Locking Ring is tightened, the windage or elevation adjustment knob is "locked". The knob will not rotate, preventing any accidental movement to lose zero.



c. ZEROING

Un-lock the adjustment knobs by turning the Zero Locking Ring counter clockwise by 40 - 70 degrees. Now, Windage/Elevation adjustment knobs can be rotated.

- Place a target 100 yards away. (35 yards for airgun

scopes)

- ii. Ideally, use a steadying device such as a bipod or shooting stand, set the scope at the highest magnification, aim at the center of the target and fire a test shot, if safe to do so.
- iii. If the impact point of the pellet or bullet is exactly in the center of the target then the scope is zeroed. If it is not, you will need to adjust the reticle using the elevation and/or windage adjusters as follows:
 - Vertical Adjustment (Elevation) - Use your fingers to turn the adjusting knob as required. One click in either direction equals approximately 1/4 inch at 100 yards.
 - Horizontal Adjustment (Windage) - Use your fingers to rotate the adjusting knob as required. One click in either direction equals approximately 1/4 inch at 100 yards.
- iv. Having adjusted the windage and elevation as required, fire, if safe to do so, another test shot.
- v. Keep adjusting and test firing until the test shot impacts on the center of the

target when the reticle is on the center of the target. This is vital for accurate shooting.

Note: Since climatic conditions such as altitude, temperature, wind and rain can affect the pellets or bullets trajectory, you may experience some deviation in the exact settings during different shooting sessions.

4. ZERO RESETTING

Once your scope is zeroed, rotate the Zero Locking Ring to lock Zero. The "0" marking may not be facing you at the original center position now. Optionally, you can use the following steps to Reset Zero by rotating the "0" marking to the center positions:

- i. Ensure zero is "locked".
- ii. Use the Allen wrench to turn the Zero Resetting Hex Screw by 180-360 degrees to dis-engage the W/E knobs. (IMPORTANT: Be gentle with the screw movement. Do not over extend the rotation. Stop when meeting resistance in the rotation)
- iii. When the W/E knob is dis-engaged, rotating the

knob will not produce any clicking sound and will not affect zero. You can re-position the "0" marking to the center position. (If you get clicks when rotating the W/E knob, the knob was not properly dis-engaged. You need to go back and re-start from zeroing your scope.)

- iv. Before tightening the Zero Resetting Hex Screw, turn the Zero Locking Ring counter-clockwise by 40-70 degrees to un-lock zero.
- v. Be careful to keep the W/E knob still now that it is un-locked. Use the Allen wrench to gently tighten down the Zero Resetting Hex Screw to complete Zero Resetting. (If you get clicks while tightening the screw, you will need to go back and re-start from zeroing you scope.)
- vi. **IMPORTANT:** Rotate the Locking Ring clockwise to lock zero immediately.

IMPORTANT NOTE: When turning the Zero Resetting Screw loose to dis-engage W/E, zero has to be "locked". When tightening the Zero Resetting Screw to engage W/E, zero cannot be locked. Scope damage may occur if the steps are not followed.

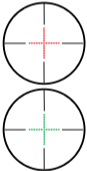
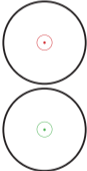
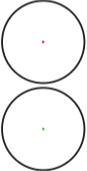
Inches of Movement per Click in Windage/Elevation
Models with 1/4 in. Per Click @ 100 Yards

25yds	35yds	50yds	100yds	200yds
1/16	7/80	1/8	1/4	1/2

Note: Since climate conditions such as altitude, temperature, wind and rain can affect the pellets or bullets trajectory, you may experience some deviation in the exact settings during different shooting sessions.

G. DIFFERENT SCOPE RETICLES:

Note: Depending on your models, your scope may come with one of the following reticles:

Mil-dot Reticle	Circle Dot Reticle	Target-dot Reticle
		
Dot size: 4 MOA	Dot size: 4 MOA Circle Dia.: 60MOA	Dot size: 4 MOA

H. CARE AND MAINTENANCE:

- Take care not to drop or knock the scope once it is zeroed.
- Maintain the metal surface of the scope by removing any dirt or sand with a soft brush so as to avoid scratching the finish.
- Wipe the lens with a clean flannel cloth to keep it clean and dry. In order to avoid scratching the glass, ensure both the lens and cloth are clean. Do not use finger or finger nail to touch/clean lenses.
- Store the scope in a cool dry place when not in use. Be careful to avoid contact with acid, alkaline or corrosive chemicals.
- Do not attempt to lubricate any part of the scope.
- Do not disassemble the scope. Do not loosen or remove screws or parts. Any such or similar actions will void the warranty.

CAUTION: Viewing the sun can cause serious eye injury. Never look directly into the sun with this or any optics.

I. THE BEST NEVER REST WARRANTY - LIFETIME

Leapers, Inc. warrants that all UTG & UTG PRO products conform to published specifications and are free from defects in material and workmanship. We will repair or replace defective products for the duration of the product's life span. Our dedicated and professional in-house customer service team will go above and beyond to make things right and provide the best in-class customer service experience you expect to receive.

Our warranty does not extend to products damaged from misuse, accidental damage, negligence, natural disasters/accidents, or unauthorized repair or alteration.

For warranty service, please submit your inquiry by visiting our customer service page on our website at www.leapers.com or give us a call at 734-542-1500. A Return Authorization Number (RMA) must be assigned before returning any products for warranty service.



**32700 Capitol Street,
Livonia, MI 48150, U.S.A.**

Tel:(734)542-1500

Fax:(734)542-7095

Email:office@leapers.com

Explore
More
At
WWW.LEAPERS.COM