ZEROTECH

INSTRUCTION MANUAL

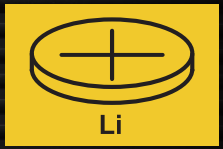
ZEROTECH RIFLESCOPES

THRIVE HD SERIES

WARNING

KEEP BATTERIES OUT OF REACH OF CHILDREN





THIS PRODUCT CONTAINS A CR2032, 3V COIN BATTERY.

THE BATTERY CAN CAUSE SEVERE OR FATAL INJURIES IN 2 HOURS OR LESS IF IT IS SWALLOWED OR PLACED INSIDE ANY PART OF THE BODY.

⚠ WARNING

- **INGESTION HAZARD:** This product contains a **CR2032, 3V** coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours.**
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN.**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or **INSERTED** inside any part of the body.
- For treatment information (USA) call the **National Battery Ingestion Hotline at 1-(800) 498-8666.** (AUSTRALIA) **call Poisons Information Centre on 13 11 26.**



- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children.
- DO NOT dispose of batteries in household trash or incinerate. Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information. CR2032: indicates the compatible battery type. 3V: indicates the nominal battery voltage.
- Non-rechargeable batteries are not to be recharged. Do not force discharge, recharge, disassemble, heat above the manufacturer's specified temperature rating or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

IMPORTANT

Please note – Thrive X and Thrive HD models are equipped with a windage turret adjustment limiter. This means that the windage turret will only rotate about half a turn in either the left or right direction.

If you hit the limiter, simply remove the windage turret dial and reset to the zero '0' position. You will then have more adjustment available.

The windage limiter screw can be removed from the underside of the windage turret dial using a small screwdriver. *Please note - once removed, it cannot be refitted.*

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WELCOME TO THE ZEROTECH FAMILY!

CUSTOMER FIRST
We listened to you and came up with a family of optics that will satisfy the needs of our most discerning and experienced customers.

BACKED BY EXPERIENCE
ZeroTech enjoys 60 years of experience in the Optics Market supplying high quality brands to retailers throughout Australia and the Asia Pacific.

BUILT FOR THE AUSTRALIAN SHOOTER
Designed and built to endure the harsh conditions of the Australian bush and the exacting demands of the precision shooter.

LIFETIME WARRANTY
Be safe in the knowledge that your scope is backed by our Triple A Lifetime Warranty – **'ANY OWNER, ANY PROBLEM, ALWAYS COVERED'**.

WARRANTY

BACKED FOR LIFE

Be safe in the knowledge that your scope is backed by our **Triple A Lifetime Warranty*:**

- Fully transferable, covers accidental damage as well as defects in materials and workmanship.
- No receipt or warranty card is required.
- We will repair or replace product with equal or similar value and/or specifications.
- We will return product to you at no charge.

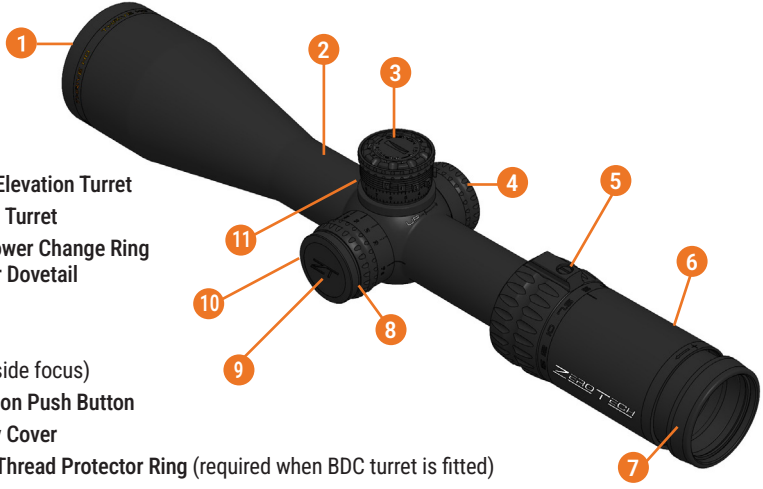
*ZT AAA warranty does not cover any intentional loss or damage to ZeroTech products.



LIFETIME WARRANTY

'ANY OWNER, ANY PROBLEM, ALWAYS COVERED'

THRIVE HD - SCOPE FEATURES



1. **Objective**
2. **30mm Maintube**
3. **Adjustable BDC Elevation Turret**
4. **Capped Windage Turret**
5. **Magnification Power Change Ring with Throw Lever Dovetail**
6. **Ocular**
7. **Dioptre Adjuster**
8. **Parallax Turret** (side focus)
9. **Reticle Illumination Push Button**
10. **Screw on Battery Cover**
11. **Elevation Turret Thread Protector Ring** (required when BDC turret is fitted)

SETTING THE DIOPTRE

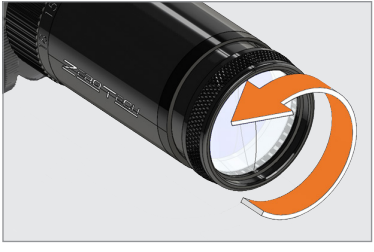
BEFORE YOU START USING YOUR SCOPE, IT IS EXTREMELY IMPORTANT TO MAKE SURE YOU HAVE ADJUSTED THE DIOPTRE CORRECTLY. THE CORRECT DIOPTRE SETTING WILL ENSURE THAT YOUR RETICLE REMAINS CLEAR AND SHARP THROUGHOUT THE ENTIRE FOCAL RANGE OF YOUR SCOPE. TO SET YOUR DIOPTRE, FOLLOW THE STEPS BELOW;

1. Set your magnification to the maximum power.
2. If fitted, set the parallax turret to the infinity marker.
3. Find a blank, featureless and bright surface, such as a white wall or clear blue sky and look through your scope for no more than 5 seconds at a time.
   NEVER LOOK THROUGH YOUR SCOPE DIRECTLY AT THE SUN.

SETTING THE DIOPTRE CONTINUED...

4. When briefly looking through the scope, the reticle should appear sharp and clear immediately. If the reticle is not immediately sharp and clear, twist the dioptre adjuster to bring the reticle into sharp focus. The dioptre adjuster has approximately 1¾ turns of adjustment. We recommend starting with the dioptre assembly twisted flush up against the ocular and making adjustments in an anticlockwise (towards the + symbol marked on the ocular) direction until the optimal setting is reached.

5. Once you have established your dioptre setting, make note of the position of the dioptre for future reference. You will not need to make frequent adjustments to your dioptre unless your setting is disturbed or changed by someone else.



MOUNTING YOUR SCOPE

BEFORE MOUNTING YOUR SCOPE TO A FIREARM, IT IS ESSENTIAL THAT YOU CONFIRM THAT YOUR FIREARM IS UNLOADED AND NO AMMUNITION IS PRESENT IN YOUR WORKSPACE.

TO AVOID DAMAGE AND TO PRESERVE YOUR WARRANTY, YOUR SCOPE SHOULD ALWAYS BE MOUNTED BY AN EXPERIENCED PROFESSIONAL.

1. Once you are satisfied the base(s) is correctly fitted to the receiver of your firearm, proceed to fit the rings to the base(s) and ensure the ring clamps are tightened to the recommended torque settings as specified by the manufacturer.
2. With the ring tops removed, place the scope in the ring bases and gently slide the scope back and forth in the ring bases to ensure the scope slides freely. If the scope does not slide freely, lapping of the rings may be necessary to avoid damage to the scope maintube. *ZeroTech always recommends the use of high quality rings and bases to ensure the best possible fitting of your scope.*

3. Avoid mounting the scope with the rings contacting the junction of the maintube/erector housing, magnification ring/maintube junction or the objective/maintube junction.
4. It is essential to confirm that no part of the scope is contacting the barrel or receiver when the scope is mounted in the rings.
5. Once you have confirmed the fit of the scope in the ring bases, fit the ring tops and tighten the ring top bolts as specified by the scope mount manufacturer. This is normally between 18 – 25 in lbs.
6. ZeroTech highly recommends the use of a scope level (bubble level) fitted to the rings or the scope maintube to ensure the reticle can consistently be aligned with the fall of gravity every time a shot is fired. This is particularly important for precision shooting applications, especially in uneven or steep terrain.

***** If your level mounts to the maintube of the scope, follow the same guidelines as observed for scope ring fitting to ensure the level does not damage the maintube of your scope.

ADJUSTING PARALLAX

If your ZeroTech scope is fitted with a parallax turret, it is important to adjust the parallax turret for shots taken at different distances. Some shooters refer to the parallax turret as the 'side focus.' It is referred to as the 'side focus' because by turning the turret, it will bring your target image into focus. As a general rule and as long as your dioptre is set correctly (refer to pages 9 & 10 – 'Setting the Dioptre'), the sharper the target image is focused, the parallax error will be less.

Parallax error is quite easy to detect when following the instructions below;

1. Acquire your target image at any distance and make sure your rifle is well supported by the use of a bipod and rear bag (or similar).
2. Use the parallax turret to obtain the sharpest/ clearest possible target image and establish a refined point of aim on the target.
3. Once you have established a refined point of aim and a sharp target image, move your head gently up and down whilst looking through the scope. Be sure not to disturb the rifle/ sights.

4. If you are able to observe the reticle departing slightly from the intended point of aim, make small adjustments on the parallax turret until the reticle remains fixed on your point of aim.
5. You will need to repeat this process when shooting at different distances or in different environmental conditions.
6. **The distance markings on the parallax turret are intended as a guide only.** Dioptre settings and environmental factors are likely to cause the distance markings to vary in relation to the actual distance of the target.



ZEROING YOUR RIFLE

ZEROING DISTANCES

Centrefire rifles: ZeroTech recommends zeroing most centrefire rifles at approximately 100 metres +/- 10 metres. 100 metres enables the shooter to overcome any offset problems caused by the centre height of the scope above bore but is not so far as to accidentally build in an error due to unobserved environmental conditions such as wind.

Rimfire rifles: Most commonly, rimfire hunting rifles are zeroed at 50 – 75 metres depending on the type of ammunition being used. Rimfire target rifles may have different zeroing requirements depending on purpose.

We always recommend that you zero your rifle in the same manner as you typically shoot your rifle. For example, if you mainly shoot your rifle from a bench, zero your rifle by shooting from a bench. If you predominantly shoot your rifle in the prone position, zero your rifle from the same position.

ZEROING DISTANCES CONTINUED...

Before you fire your first shot, you should bore sight your rifle to ensure your scope and your barrel are both aligned at the intended point of impact on your target. To do this with a bolt action rifle, remove the bolt with the rifle securely supported (front and rear) and align the bore with the target.

Without disturbing the rifle, carefully look through the scope and check that the reticle is also aligned with the same point as the bore on the target. If the reticle is not aligned, use the windage and elevation adjustments on your scope to adjust the reticle to the intended point of impact on the target.

Once you are satisfied that the scope and the bore of your rifle are aligned to the same point on the target, fire a shot at the target and observe the point of impact (bullet hole).
If required, use the windage and elevation turrets on your scope to adjust the bullet impact.

ZEROING DISTANCES CONTINUED..

Dialling the elevation turret in the direction of the 'U' symbol will adjust the bullet impact upwards on the target. Likewise, dialling the windage turret in the direction of the 'R' symbol will adjust the bullet impact to the right on the target.

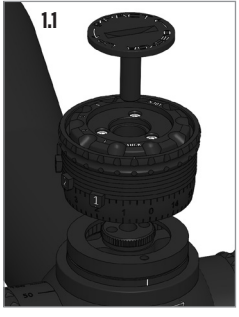
If your scope turrets are indexed in ¼ Minutes of Angle (0.25 MOA), each 'click' of your scope turret will adjust your bullet impact approximately 7-8mm at 100 metres (approx. ¼" at 100 yards).

If your scope turrets are indexed in 0.1 Milrad (0.1 MRAD), each 'click' of your scope turret will adjust your bullet impact 1cm at 100 metres (0.36" at 100 yards).

RESETTING THE ADJUSTABLE BDC ELEVATION TURRET AFTER ZEROING

1. After you have followed the mounting and zeroing instructions on pages 11 - 17, you are ready to reset the elevation and windage turrets to zero ('0').

Holding the turret dial in place, use a small coin to unscrew the turret keeper anticlockwise. Remove the keeper and the turret dial. (Fig. 1.1).

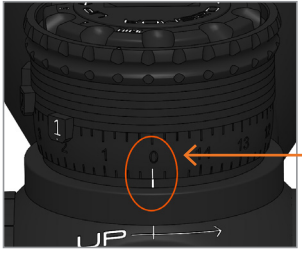


Replace the turret with the reference set to zero '0'. Refit and tighten the keeper using a small coin. Only light pressure is required to fully tighten the keeper screw. Do not use a screwdriver. (Fig. 1.2).



RESETTING THE ADJUSTABLE BDC ELEVATION TURRET AFTER ZEROING CONTINUED...

2. Check your turret to make sure the '0' on the turret is aligned with the index mark on the turret body.



Make sure the '0' marker aligns with the index marker on the turret body.

3. Repeat this process for the windage turret.

4. Replace the turret caps to ensure your zero settings aren't disturbed.

RESETTING THE ADJUSTABLE BDC ELEVATION TURRET CONTINUED...

If there is slight misalignment between the index marker on the inner turret body and the index markings on the BDC turret, the turret can be adjusted to align perfectly. Follow the steps below.

1. 

Remove the top screw using a small coin or similar object. (Fig. 1).

2. 

Underneath the top screw, there are three (3) evenly spaced screw locations. (Fig. 2).

3. 

Use a 1.5mm hex key to loosen each screw by ¼ to ½ turn. After doing this, the turret will now spin freely (without 'clicks'). (Fig. 3).

4. 

Align the index marks on the turret and the turret body and gently tighten the three (3) screws with the 1.5mm hex key, using the short end of the key between your thumb and index finger to apply the appropriate level of torque. Please be careful not to overtighten these screws. (Fig. 4).

ZEROING THE WINDAGE TURRET DIAL

WINDAGE TURRET DIAL ROTATION LIMITER

Important note: The Thrive HD windage turret dial is fitted with a limiter pin, located on the underside of the turret dial. This pin is designed to limit the windage turret dial to 7 MOA either direction of the zero '0' position. (Fig. 1).

1.



WINDAGE TURRET DIAL ROTATION LIMITER CONTINUED...

If you hit the limiter while adjusting the windage but still require more adjustment, simply remove the windage turret dial and reset to zero '0'. This will allow the full range of windage travel, again. (Fig. 2 & 3).

If you wish to remove the windage limiter pin, you can do so using a small flat head screwdriver. Please note, once the pin has been removed, it will not be possible to refit. (Fig. 4) .

2.



3.



4.

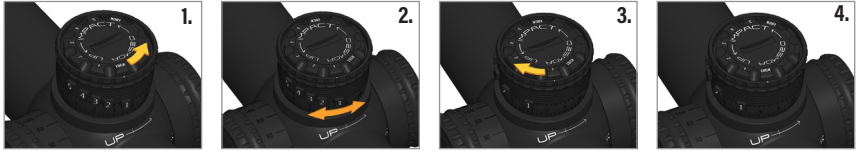


Replace the turret with the reference set to zero' 0'. Refit and tighten the keeper using a small coin. Only light pressure is required to fully tighten the keeper screw. Do not use a screwdriver.

SETTING THE ADJUSTABLE BDC ELEVATION TURRET

Once you have established a zero for your rifle, the Adjustable BDC elevation turret can be configured to match the shooter's desired bullet drop reference points.

1. Simply twist the Adjustable BDC dial on the top of the elevation turret from the locked position to the number of the corresponding BDC marker.
2. Image 2 shows the Adjustable BDC dial in the unlocked position for the number 1 marker. Only the number 1 marker can be adjusted.
3. Rotate the marker to the desired position.
4. Twist the Adjustable BDC dial back to the locked position.

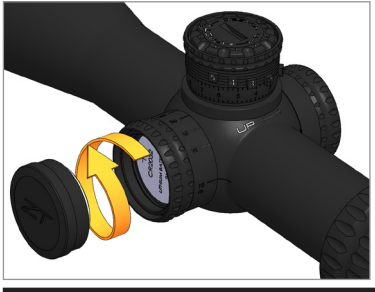


RETICLE ILLUMINATION

THRIVE HD models are fitted with a push button illumination function and have 5 brightness settings.

1. Before use, install the CR2032 battery by removing the illumination turret battery cover. Unscrew in an anticlockwise direction. If the battery is already installed, simply remove the plastic circuit blocker on the bottom of the battery and reinstall.
2. Press the illumination control button once to illuminate the reticle. You can then toggle between the brightness settings by quickly pressing the button.
3. IMPORTANT - To turn the reticle illumination off, press and hold the button for 2 – 3 seconds.
4. Models fitted with the push button illumination have an auto shutdown feature. The reticle will automatically power-off after 3 hours to avoid excessive battery consumption.
5. Our push button illumination has a memory function that resumes on the same brightness setting the next time the illumination is activated.

RETICLE ILLUMINATION FEATURE CONTINUED...



Battery Replacement

Unscrew battery cap anticlockwise. Insert battery and replace illumination turret cap.





WARNING – KEEP BATTERIES OUT OF REACH OF CHILDREN

Zerotech rifle scopes and optics with a reticle illumination feature contain coin batteries. Products containing coin batteries must be kept out of reach of children. The battery can cause severe or fatal injuries in 2 hours or less if it is swallowed or placed inside any part of the body. If you suspect your child has swallowed or inserted a button battery immediately call the 24-hour Poisons Information Centre on 13 11 26 (Australia) for fast, expert advice.

SCOPE CARE

1. Wipe dust and debris from your scope body using a damp microfibre cleaning cloth.
2. If necessary, clean dust and dirt from the scope lenses using a lens brush and the ZeroTech lens cleaning cloth.
3. Never spray cleaners or solvents on any part of your scope. Irreversible damage may be caused by such products.
4. Avoid touching the scope lenses. Wipe fingerprints off the scope lenses using the ZeroTech lens cleaning cloth.

WARRANTY & CONTACT INFORMATION

COMPANY DETAILS

ZEROTECH INTERNATIONAL PTY LTD

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LIFETIME WARRANTY

‘ANY OWNER, ANY PROBLEM, ALWAYS COVERED’

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