



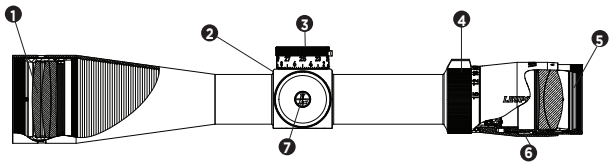
## VX-5HD RIFLESCOPE OWNER'S MANUAL Complete Installation & Operating Instructions

### About Leupold & Stevens, Inc.

We're 700 American craftsmen making innovative, battle-proven optics for the world's most relentless hunters and shooters. You won't outlast us. You can't outperform us.

Our products are renowned for their rugged reliability, elite optical performance, and lifetime guarantee. More than a century of engineering, manufacturing, and optical experience goes into every product that bears our name; the results are unrivaled.

### Know Your Scope



|  |   |                       |                         |
|--|---|-----------------------|-------------------------|
| <b>CAUTION</b><br>Always check and be certain that the firearm is unloaded before working on it. | 1 Objective Lens                              | 4 Power Selector Ring | 7 Side Focus Adjustment |
|  | 2 Windage Adjustment (opposite side of scope) | 5 Ocular Lens         |                         |
|  | 3 Elevation Adjustment                        | 6 Eyepiece            |                         |

### Installing the Base, Rings, and Scope

Please refer to the instructions included with the base and rings for proper installation.

#### ESTABLISHING EYE RELIEF

For safety, Leupold strongly recommends that you mount your scope as far forward as possible. Beyond that, follow these steps:

1. With the scope mounted as far forward as possible, hold the rifle in your normal shooting position. (Variable power scopes should be set at the highest magnification for this process.)
2. Slowly move the scope to the rear until you can see a full field-of-view.
3. Position your scope here for maximum eye relief.

#### FOCUSING THE RETICLE

1. Secure the scope and firearm in a firm rest. Safely point the scope at a light colored background.
2. Look through the scope while pointed at a light colored background. Look away every so often to relax your eye between focus checks. Rotate the eyepiece and recheck focus repeatedly until the reticle is sharp.

### Making Precise Windage and Elevation Adjustments

The Leupold VX-5HD riflescopes are equipped with 1/4 MOA per click adjustments. German 4 reticle scopes have 1cm at 100m click increments. The letters found on the windage and elevation dials refer to the direction that the point-of-impact of the bullet is moved when an adjustment is made.

Your Leupold VX-5HD rifle scope is equipped with either CDS-ZL2, CDS-TZL3, or finger click elevation adjustments. All models contain finger-click windage adjustments.

To operate the CDS-ZL2 and CDS-TZL3 dials you must push inward on the lock release button located on the outer edge of the dial above the zero witness mark to make an adjustment. Once the dial has been turned one or more clicks past the zero position it is no longer necessary to press the button. The CDS-ZL2 button will be flush with the edge of the dial during the first revolution, then be recessed into the dial during the second revolution. The CDS-TZL3 button will not recess into the dial. The revolution indicator on the base of the dial will move as the dial is turned.

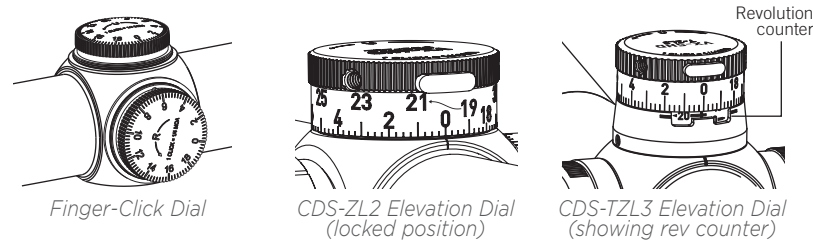
#### ZEROING THE VX-5HD WINDAGE AND ELEVATION DIALS AFTER SIGHTING IN

All Leupold scopes feature adjustment dials that can be repositioned to align the marked zero of the dial with the witness mark. This allows the shooter to know the original zero of the rifle in the event that further adjustments are made in the field.

To reposition the dials and the zero stop on CDS-ZL2 and CDS-TZL3 adjustments:

1. Loosen the set screws that surround the top of the dial until it turns freely.
2. Turn the dial by hand to align the zero with the witness mark at the base of the dial. The lock release button will pop out.
3. Tighten the set screws until the dial is secure.

To reposition the finger-click dials simply grasp the dial firmly around the edges and pull straight up until you hear an audible click. Rotate the dial until the zero on the dial is aligned with the witness mark on the maintube. To lock the dial into position, push down until you hear an audible click.



#### UNDERSTANDING PARALLAX

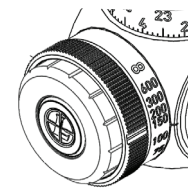
Parallax is the perceived movement of the target relative to the reticle when you move your eye away from the center point of the eyepiece. It occurs when the image of the target does not fall on the same optical plane as the reticle. This can cause a small shift in the point of aim.

Maximum parallax occurs when your eye is at the very edge of the image. At short distances, the parallax effect does not affect accuracy. It is also good to remember that, as long as you are looking straight through the middle of the scope, or close to it, parallax will have virtually no effect on accuracy in a shooting situation.

#### SETTING THE PARALLAX WITH THE SIDE FOCUS ADJUSTMENT

1. The reticle should be clear (focused) before adjusting the parallax. If it's not, follow the instructions under "Focusing the Reticle" section.
2. With the firearm in a stable position, look through the scope, concentrating on the target.
3. Turn the side focus adjustment until the target is clear and crisp.

**NOTE:** By focusing the image, you are also adjusting the parallax within the scope.



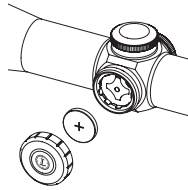
Side Focus Adjustment

### Installing the Battery

Leupold third generation Illuminated Reticle scopes use a CR2032 lithium coin-cell battery.

To install the battery:

1. Twist the cover counterclockwise.
2. Insert the battery, positive (+) side up.
3. Replace the battery cover on the illumination dial and turn it clockwise until it is secure.



### Using the Illuminated Reticle

Leupold Illuminated Reticle scopes may be used in either the standard or the illuminated state. When not illuminated, the reticle performs the same as the reticle in a standard Leupold scope.

#### PUSH BUTTON ILLUMINATION CONTROL

To illuminate the reticle:

1. Press and release the button on the left side of the adjustment turret.
2. To adjust the intensity of the aiming dot, press and release the button repeatedly. The aiming dot will flash 5 times when the brightest setting is reached, then begin decreasing each time the button is subsequently depressed. When the lowest setting is reached, the aiming dot will flash 5 times and begin increasing each time the button is subsequently depressed.
3. To deactivate the illumination, press and hold the button for at least 3 seconds. When reactivated, the illumination will return to the last used setting.

**Note - Advanced Use:** To change the direction of adjustment, i.e., change from increasing intensity to decreasing intensity, press and hold the button for 2 seconds and immediately release the button. Then continue pressing and releasing to change intensity.

Leupold third generation illumination systems utilize a proprietary Motion Sensor Technology (MST) to automatically preserve battery life. If the illumination is activated and the scope/rifle is left dormant for a period of five minutes, the illumination will automatically turn off, but will immediately reactivate as soon as the scope/rifle is moved even slightly.

**NOTE:** The reticle illumination will begin a 10 sec. count down prior to the 5 minute timeout expiring. The reticle will flash 10 times before turning off.

To preserve the life of the battery, always remember to turn the illumination off when the scope is not in use. For prolonged storage, remove the battery.

**WARNING:** Always check to ensure that the firearm is unloaded before changing the battery in the scope.

Low Battery Indicator:

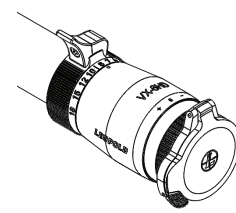
For convenience, there is a low battery indicator feature which will cause the reticle to flash upon activation. To check the status of your battery, simply turn the illumination off, then back on. If the reticle flashes, you will soon need to replace the battery.

For more information on our wide variety of reticles, please visit [leupold.com/reticles](http://leupold.com/reticles).

### VX-5HD Accessories (sold separately)

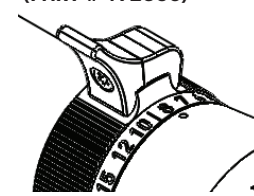
#### ALUMINA LENS COVERS

Alumina flipback lens covers are available for VX-5HD scopes.



#### REVERSIBLE THROW LEVER

(PART # 172369)



### Leupold Means Minimal Maintenance

#### LENSES

To clean lenses begin by using a lens brush to remove dust and then pure alcohol, high-grade glass cleaner, or pure water on a cotton swab.

#### WINDAGE / ELEVATION ADJUSTMENTS

These adjustments are permanently lubricated. There is no need to lubricate them. Keep the adjustment covers on, except when adjusting, to keep out dust and dirt. (It's worth noting that, unlike competitive brands, Leupold scopes are waterproof even without the covers in place.)

#### SIDE FOCUS / ADJUSTABLE OBJECTIVE / POWER SELECTOR / EYEPIECE

These adjustments are permanently lubricated and there is no need to lubricate them. The eyepiece can be rotated as far as it will go in either direction. It will not detach from the scope as there is an internal lock ring.

#### SCOPE EXTERIOR

No maintenance of any kind is required; simply wipe off any dirt or fingerprints that accumulate with a clean, dry cloth.

#### TROUBLESHOOTING TIPS

Before you ship a scope back to the factory for service or repair, please check the following items.

1. Check the mount. Make sure the scope is mounted securely to the rifle. Try, with bare hands only, to gently twist the scope in the rings or see if anything moves when you jiggle it. If there is any movement, retighten the mounting system according to mounting instructions.
2. Make sure the action of your rifle is properly bedded in the stock, and that all receiver screws are tight and have been tightened in the sequence recommended by the manufacturer. A loosely fitted stock can cause changes to the point-of-impact.
3. When test firing a rifle to check the point-of-impact relative to windage and elevation adjustments, be sure to fire from a solid bench with sandbags supporting the forearm and buttstock.
4. Be sure to use factory-loaded ammunition of the same bullet type, weight, and preferably, lot number. If one type of ammunition does not shoot well, try another brand or bullet weight.
5. Be certain that both the barrel and chamber are clean. Heavy factory grease or copper fouling can diminish the accuracy of the firearm.

#### LEUPOLD PRODUCT SERVICE

If your Leupold Gold Ring scope fails to perform in any way, you may return it directly to the factory (or one of our international service centers) for service. To return a product for service from within the U.S. follow these shipping instructions:

1. Remove the rings and any other accessories from the scope.
2. Record the serial number of the scope and keep it for your records.
3. Visit [leupold.com/rma/warranty/create](http://leupold.com/rma/warranty/create) and follow the instructions there to start the warranty process. When shipping the product, include the Packing Slip that will be provided.
4. Pack the scope in its original box (if you have it), as this is the safest shipping container. Wrap the package securely using filament strapping tape on the outside.
5. Ship the scope by a traceable parcel or mail service (insured, if possible) to one of the following addresses: Register your product at: [leupold.com/product\\_registration/product](http://leupold.com/product_registration/product)

#### IN THE UNITED STATES:

##### Parcel or Mail Service:

Leupold Product Service  
14400 NW Greenbrier Parkway  
Beaverton, OR 97006-5790 USA

##### Our Product Service telephone numbers are:

Local (503) 526-1400

Toll-Free 1(800) LEUPOLD (538-7653)

Fax (503) 352-7621

#### OUTSIDE THE UNITED STATES:

##### Canada:

Korth Group Ltd., 64186- 393 Loop East,  
Okotoks, AB T1S 0L1, Canada

##### Australia:

Nioa, Lomadra Drive,  
Eagle Farm, Qld 4009 Australia (for  
items originating from Australia, New  
Zealand, New Caledonia and Japan)

##### South Africa:

Formalito, 1019 Pretorius Ave.  
Lyttelton Manor, 0157,  
South Africa

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#### LEUPOLD LIFETIME WARRANTY

Anyone can offer you a lifetime warranty, but guaranteeing performance takes serious dedication and craftsmanship. From our Beaverton Oregon factory, to the wilderness, the battlefield, and everywhere in-between, we won't let you down.

If your Leupold scope, sight, binocular, spotting scope, or mount doesn't perform, we will repair or replace it for free, whether you're the original owner or not – forever.

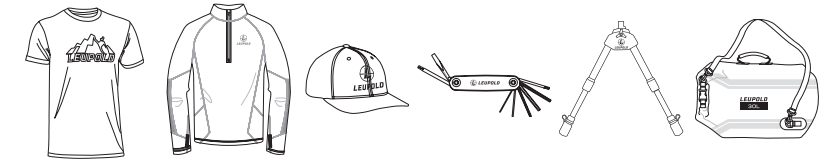
For complete details visit [leupold.com/warranty](http://leupold.com/warranty)

#### LEUPOLD MAKES MORE THAN SCOPES

See our complete line of rangefinders, mounting systems, binoculars, spotting scopes, and accessories at your nearest Leupold dealer.

To download a Leupold catalog, visit [Leupold.com](http://Leupold.com).

### Leupold Pro Gear



From outerwear to shooting accessories, Pro Gear is tested in the field and built to perform. You can see the full lineup at [Leupold.com](http://Leupold.com).

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