



VX-5HD RIFLESCOPE OWNERS MANUAL

Complete Installation & Operations Instructions

About Leupold & Stevens, Inc.

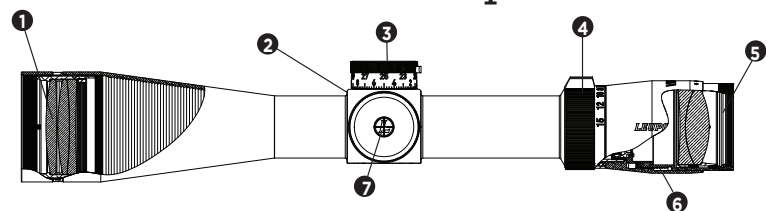
Today, Leupold optics are renowned for their unchallenged ruggedness, absolute waterproof integrity, and their vastly superior optical quality. More than a century of optical, engineering and manufacturing experience goes into every product we produce, and we think the results are well worth the extra effort required to achieve this level of quality.

In true American style, the philosophical foundation laid in our early years served as a template for the company as we've grown and changed over the decades. In fact, the firm's founder established the clarity of purpose that we see at Leupold & Stevens today:

"We solemnly promise never to let down on quality, the customer is entitled to a square deal."

- Markus Friedrich "Fred" Leupold

Know Your Scope



<p>CAUTION</p> <p>Always check and be certain that the firearm is unloaded before undertaking any work upon it.</p>	1 Objective Lens	4 Power Selector Ring	7 Side Parallax 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 their proper installation on the firearm.

ESTABLISHING EYE RELIEF

Because of the safety considerations associated with proper eye relief, Leupold strongly recommends that you mount your scope as far forward as possible. Beyond that, follow these steps:

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

FOCUSING THE RETICLE

- Secure the scope and firearm in a firm rest. Safely point the scope at a light colored background.
- 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 riflescope is equipped with either CDS-ZL2 or finger-click elevation adjustments. All models contain finger-click windage adjustments.

To operate the CDS-ZL2 dial 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.

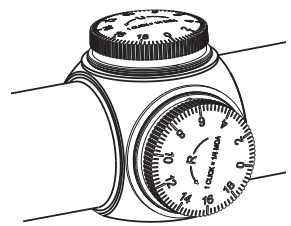
ZEROING THE VX-5HD WINDAGE AND ELEVATION DIALS AFTER SIGHTING IN

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.

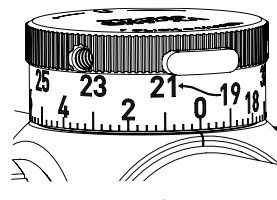
To reposition the dials and the zero stop on CDS-ZL2 adjustments:

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



Finger-Click Adjustments



CDS-ZL2 Elevation Dial (locked position)

UNDERSTANDING PARALLAX

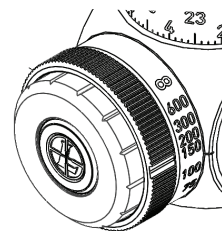
Parallax is the apparent movement of the target relative to the reticle when you move your eye away from the center point of the eyepiece. It occurs when the image of the target does not fall on the same optical plane as the reticle. This can cause a small shift in the point of impact.

Maximum parallax occurs when your eye is at the very edge of the exit pupil. At short distances, the parallax effect does not affect accuracy, at longer ranges this may not be the case. For this reason, adjustable parallax scopes are preferred for long range shooting. It is also good to remember that, as long as you are sighting straight through the middle of the scope, or close to it, parallax will have virtually no effect on accuracy in a hunting situation.

SETTING THE ADJUSTABLE PARALLAX

- The reticle should be clear (focused) before adjusting the parallax. If it is not, follow the instructions under "Focusing the Reticle."
- With the firearm in a stable position, look through the scope, concentrating on the center aiming point of the reticle.
- Move your head slightly up and down while turning the side parallax or adjustable objective ring until the reticle does not move in relation to the target.

NOTE: Settings may vary slightly per individual preferences, air temperature, and atmospheric conditions.



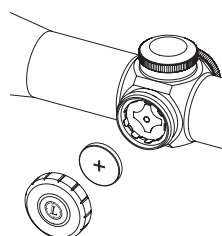
Side Focus Adjustment

Installing the Battery

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

To install the battery:

- Twist the cover counterclockwise.
- Insert the battery, positive (+) side up.
- 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:

- Press and release the button on the left side of the adjustment turret.
- 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.
- 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, ie 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.

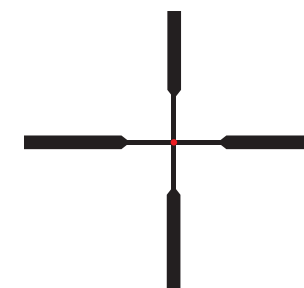
NOTE: The reticle illumination will begin a 10 sec. count down prior to the 5 minute timeout expiring. The reticle will flash 10 times before turning off.

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.

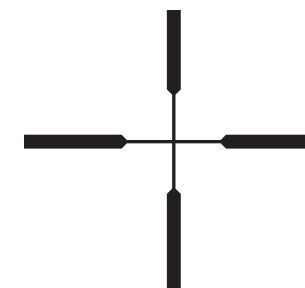
WARNING: Always check to ensure that the firearm is unloaded before changing the battery in the scope.

Low Battery Indicator:

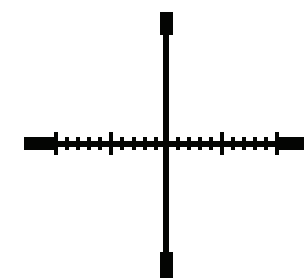
For convenience, there is a low battery indicator feature which will cause the reticle to flash upon activation. To check the status of your battery, simply turn the illumination off, then back on. If the reticle flashes, you will soon need to replace the battery.



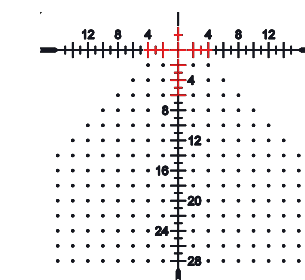
FireDot Duplex Reticle



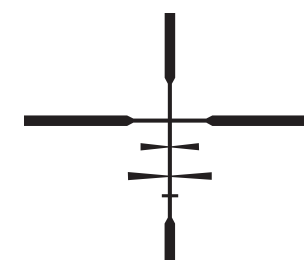
Duplex Reticle



Wind-Plex Reticle



Illuminated Impact-29 MOA Reticle (1 MOA tick spacing aids in calling bullet impact and providing aiming corrections)

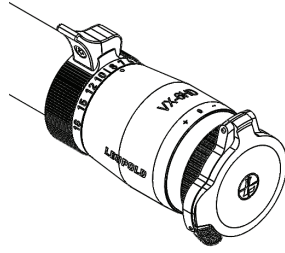


Boone and Crockett Reticle

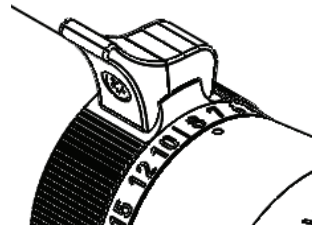
VX-5HD Accessories (sold separately)

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.

TROUBLE SHOOTING 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. We recommend contacting Leupold Technical Service at 1-800-Leupold (538-7653), and following 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. Include a note with your name, address, telephone number, E-mail address, and a description of the problem.
4. Pack the scope in its original box (if you have it), as this is the safest shipping container.
5. Ship the scope by parcel or mail service (insured, if possible) to one of the following addresses:

IN THE UNITED STATES:

Parcel or Mail Service:

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

OUTSIDE THE UNITED STATES:

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

Australia: Nioa, PO Box 191,
Pinkenba, Qld 4008 Australia
(for items originating from Australia, New Zealand, New Caledonia and Japan)

South Africa: Formalito, 1019 Pretorius Avenue,
Lyttleton, 0157, South Africa

Our Product Service telephone numbers are
Local (503) 526-1400
Toll-Free 1(800) LEUPOLD (538-7653)
Fax (503) 352-7621

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The Best Consumer Protection in the Business

Leupold & Stevens, Inc. is an American, family owned, fifth generation company that has been designing, machining and assembling precision optical instruments for over 100 years. Leupold's success has been built on its commitment to your absolute satisfaction and its commitment to building the best optics for the shooting sports and for the law enforcement/military community. It is for these reasons that Leupold & Stevens, Inc. offers the Leupold Full Lifetime Guarantee.

If any Leupold product is found to have defects in materials or workmanship, Leupold & Stevens, Inc. will, at its option, repair or replace it. FREE. Even if you are not the original owner. No warranty card is required. No time limit applies. Warranty is void if damage results from unauthorized repair, alteration, or misuse.

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THE LEUPOLD ELECTRONICS LIMITED 5-YEAR WARRANTY

This warranty covers any defects in materials and workmanship in the electronic components of illuminated riflescopes/sights, flashlights, flashlight components, RX Rangefinders, GX Rangefinders, PinCaddie Rangefinder, RCX Cameras and Vendetta Archery Rangefinder. This warranty lasts for five years from the date of purchase. If, during that five-year period, these products are found to have defects in materials or workmanship, Leupold will repair, or if repair is not possible, replace the product, free of charge.

LEUPOLD MAKES MORE THAN SCOPES

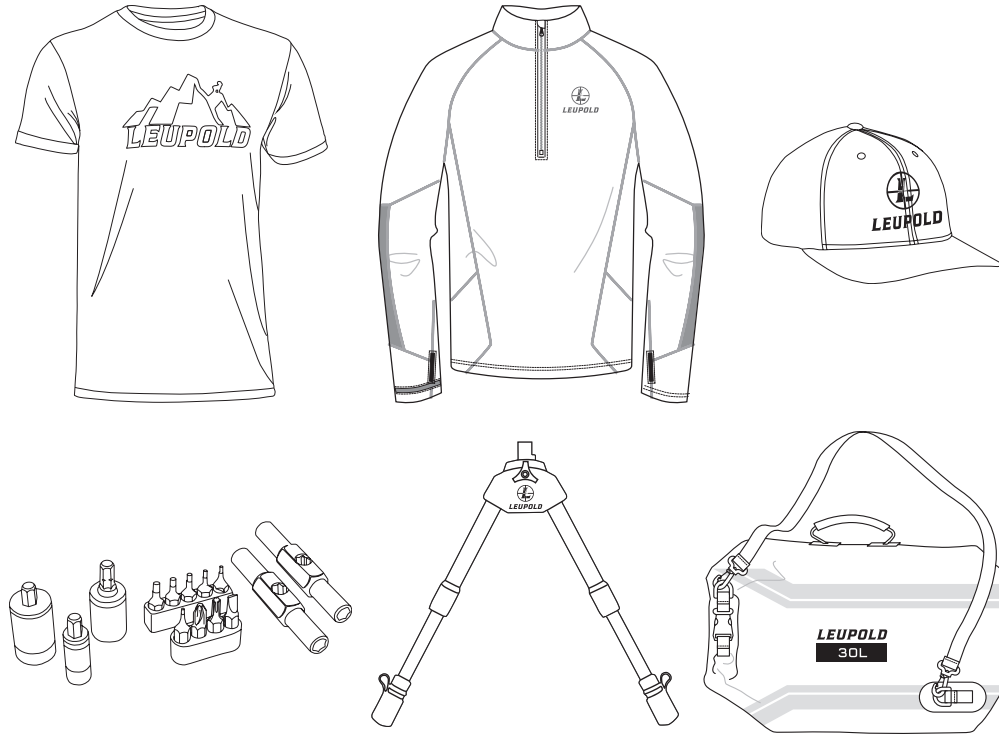
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For a free Leupold catalog, write to:

Leupold & Stevens, Inc., P.O. Box 688, Beaverton, OR 97075,
call (503) 526-1400 or (800) LEUPOLD (538-7653), or send us an E-mail through our Web site at www.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.



The Leupold package is made in part from recycled materials and is 100% recyclable. This includes the black or white polypropylene supports, which are made of an accepted recyclable material. Many Leupold owners keep their scope boxes. If you have no use for yours, we encourage you to dispose of it responsibly.

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