



## VX-6HD RIFLESCOPE OWNERS MANUAL

Complete Installation & Operations Instructions

### About Leupold & Stevens, Inc.

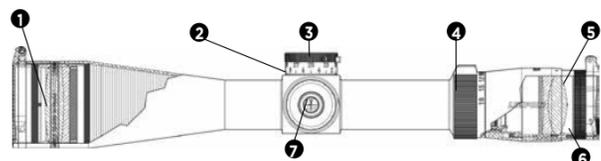
Today, Leupold optics are renowned for their unchallenged ruggedness, absolute waterproof integrity, and their vastly superior optical quality. More than a century of optical, engineering and manufacturing experience goes into every product we produce, and we think the results are well worth the extra 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><b>CAUTION</b></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.

### LEVELING THE RIFLESCOPE (All VX-6HD scopes are equipped with a reticle leveling feature)

- Begin by leveling the rifle in a vice or steady rest.
- To activate the level function ensure the illumination is turned off. Press and hold the illumination button for a full fifteen seconds. The reticle will flash when the level is activated.
- Without changing your eye relief settings from the previous section, rotate the scope so the reticle is overly canted. The reticle will begin flashing.
- Slowly rotate the scope back towards the level position. When the scope is perfectly level, the reticle will stop flashing.
- Secure the scope in the rings with 28 in-lbs. of torque. If you wish to deactivate the level function, turn off the illumination then hold the button for 15 seconds. The reticle will flash when the level is deactivated.

### 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-6HD 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.

### ADJUSTING WINDAGE AND ELEVATION ON VX-6HD RIFLESCOPES

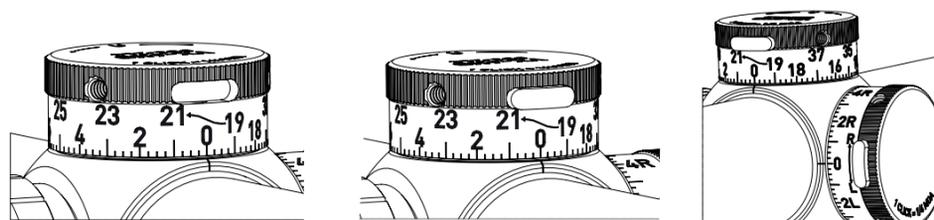
Your Leupold VX-6HD rifle scope is equipped with the CDS-ZL2 elevation adjustment dial and a Zero-Lock windage dial. You must push inward on the lock release button located on the outer edge of the dial above the zero witness mark to make an adjustment. Once the dial has been turned one or more clicks past the zero position it is no longer necessary to press the button. The CDS-ZL2's 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-6HD 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-ZL 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.



CDS-ZL2 Revolution Counter (2nd revolution)

CDS-ZL2 Elevation Dial (locked position)

CDS-ZL Windage Dial

### UNDERSTANDING PARALLAX

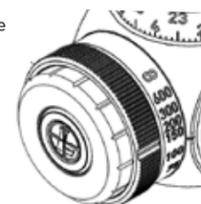
Parallax is the apparent movement of the target relative to the reticle when you move your eye away from the center point of the eyepiece. It occurs when the image of the target does not fall on the same optical plane as the reticle. This can cause a small shift in the point of impact.

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.



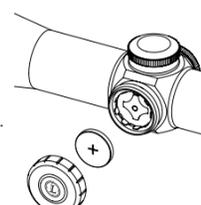
Side Focus Adjustment

## 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.

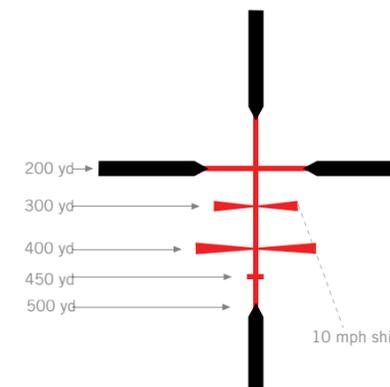
NOTE: The reticle illumination will begin a 10 sec. count down prior to the 5 minute timeout expiring. The reticle will flash 10 times before turning off.

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.

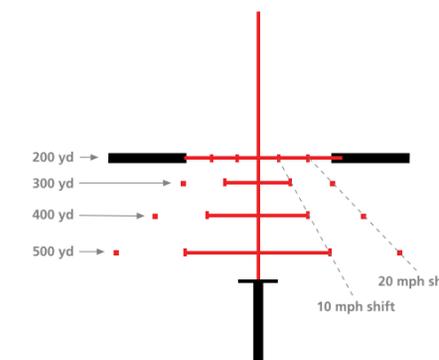
WARNING: Always check to ensure that the firearm is unloaded before changing the battery in the scope.

### Low Battery Indicator:

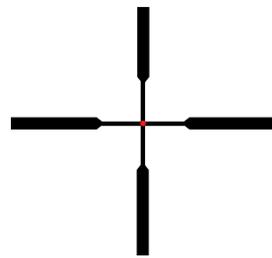
For convenience, there is a low battery indicator feature which will cause the reticle to flash upon activation. To check the status of your battery, simply turn the illumination off, then back on. If the reticle flashes, you will soon need to replace the battery.



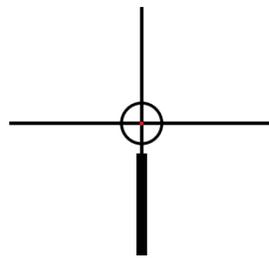
Illuminated Boone & Crockett Reticle



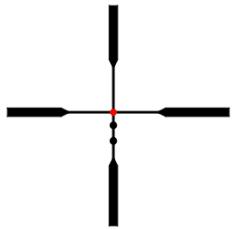
Illuminated Varmint Hunter's Reticle



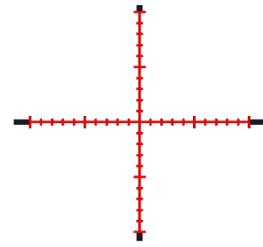
FireDot Duplex Reticle



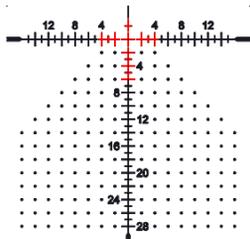
FireDot Circle Reticle



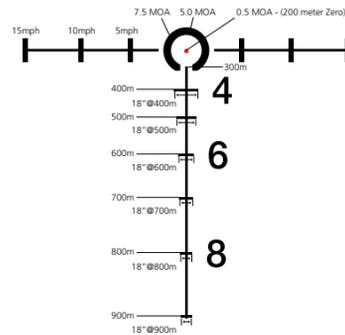
FireDot Bullet-Drop Reticle  
(Provides the same ballistic performance as the LR Duplex)



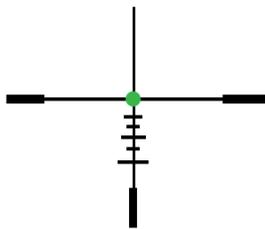
Illuminated T-MOA Reticle



Illuminated Impact-29 MOA Reticle  
(2 MOA dot spacing and 1 MOA tick marks aid in calling bullet impact and providing aiming corrections)



Illuminated CM-R<sup>2</sup> Reticle



FireDot G BDC Reticle

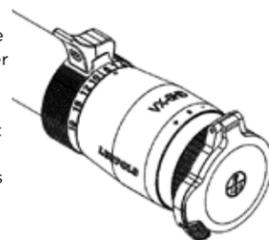
Bullet drop compensation out to 600 yards matching most popular bullet weights for 3-Gun competition. Provides compensation for for 5-mph wind drift out to 500 yards.

## Included Accessories

### ALUMINA LENS COVERS

Alumina flipback lens covers are installed at the factory but the locknuts are not tightened down. This allows you to position them where you prefer after mounting the scope and setting the eyepiece focus to your eye.

To secure the flipback hinge where you want it, first rotate it counterclockwise slightly, then grasp both the outer ring and the locking at the same time, turning until the hinge is where you want it. If the locknut is not tight enough, repeat this step until the locknut is secure and the hinge is where you want it.



### VX-6HD THROW LEVER

1. Place throw lever onto the power selector and tighten the screw. The lever can be oriented facing left or right depending on your preference and bolt clearance requirements.
2. Verify you have comfortable bolt clearance with the power selector set on high. It is imperative that you mount the scope adequately far forward to ensure good clearance.



## 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.

The Leupold Guarantee in Germany and other countries where legally prohibited: Leupold is convinced of the high-quality and reliability of its products. This is why each U.S. customer is afforded a lifetime guarantee. For legal reasons, this guarantee must be restricted to 30 years in Germany and other countries where an unlimited lifetime guarantee is prohibited. Each owner, even those that acquired a Leupold product used, can make use of this 30 year guarantee.

### 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

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

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](http://www.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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