



**UNI-DIAL 5X-30X**  
**INSTRUCTIONAL MANUAL**



# INSTRUCTIONAL MANUAL

CONGRATULATIONS! You have just purchased the advanced Hi-Lux Uni-Dial 5X-30X variable rifle scope.

Looking for a riflescope that compensates for bullet drop regardless of rifle and caliber with the turn of a dial? The Uni-Dial 5-30X56's patented ballistic elevation turret has six colored markers which can be positioned to quickly reference up to 6 different distances. All you need is to know your Data of Previous Engagement or D.O.P.E. Once programmed, the shooter will be able to hit known distance targets by turning to the respective indicator for that distance.

The Uni-Dial 5-30X was designed for the long range target shooter or hunter. With a 56mm objective and 34mm tube, the Uni-Dial

5-30X is a beast at light gathering. The HD Low Dispersion glass lenses produce a bright and crisp sight picture with true color fidelity, even in low light. The Second Focal Plane Mil Reticle clearly indicates every quarter Mil. All glass lenses in the UD530X56 are fully multi-coated with DiamondTuff14 for maximum light transmission. Nitrogen purging and rubber gasket seals guarantee fogproof performance in all temperatures and climates.

If you are looking for a high quality, feature rich optic that won't break the bank, you've found it! The Uni-Dial 5-30X56 will allow you to get on target faster. After ranging your target, simply turn the elevation knob to the respective indicator, and hold dead center – no holdovers required!

# UNI-DIAL 5X-30X56

## Table of Contents

SECTION 1	: SPECIFICATIONS AND BASIC DEFINITIONS	4
SECTION 2	: EYEPIECE FOCUSING AND RHEOSTAT	6
SECTION 3	: MOUNTING	7
SECTION 4	: PRE-ZEROING	9
SECTION 5	: ZEROING	10
SECTION 6	: PARALLAX CORRECTION (Models Greater Than 10X)	13
SECTION 7	: SETTING THE UNI-DIAL BALLISTIC TURRET	13
SECTION 8	: MAINTAINING YOUR RIFLESCOPE	15
SECTION 9	: DIAMONDTUFF LIFETIME WARRANTY	16

# INSTRUCTIONAL MANUAL

## SECTION 1

### SPECIFICATIONS AND BASIC DEFINITIONS

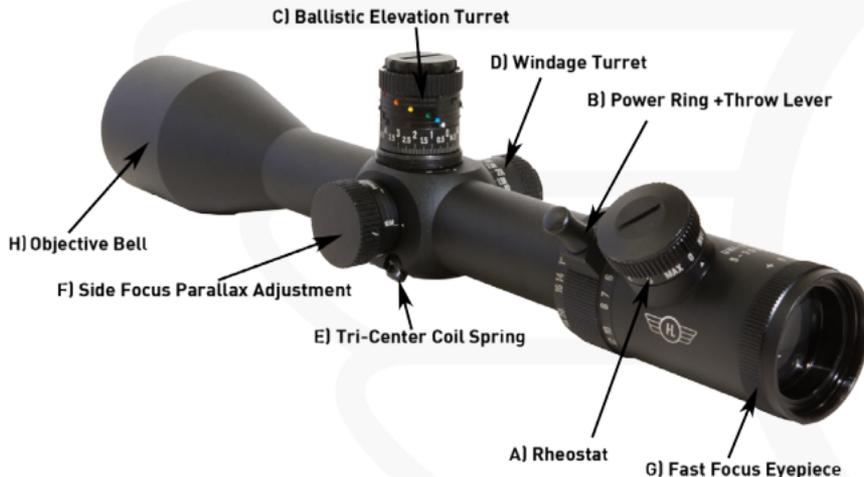
#### (1) UNI-DIAL 5X-30X SPECIFICATIONS :

Model	Power	Obj. (mm)	F.O.V.@ 100 Yds (Feet)	Eye Relief (Inch)	Length (Inch)	Weight (O.Z.)	Exit Pupil Range In Variable (mm)	Elevation Windage Total adj. (MOA)	Tube (mm)
UD530X56	5-30x	56	7.2'-1.2'	3.75"	14.7"	32	10.0 – 1.2	100 MOA	34 mm

The click adjustment value for Elevation is 0.125 MRAD/click. One full revolution on the elevation turret is 15 MRAD (51.6 MOA). The click adjustment value for Windage is 0.1 MRAD/click. From center, you can adjust the windage turret 6 MILS (20.6 MOA) to the left or right. The scope comes with the flip-open lens covers, and the power ring throw lever.

# UNI-DIAL 5X-30X56

## (2) BASIC DEFINITIONS:



**A. RHEOSTAT; B. POWER RING WITH THROW LEVER; C. ELEVATION ADJUSTMENT KNOB; D. WINDAGE ADJUSTMENT KNOB; E. TRI-CENTER COIL SPRING; F. SIDE FOCUS PARALLAX KNOB; G. EYEPIECE & FAST FOCUS; H. OBJECTIVE BELL**

# INSTRUCTIONAL MANUAL

## SECTION 2

### EYEPIECE FOCUSING AND RHEOSTAT

Hold the scope between three to four inches from your eye and look through the eyepiece in a well lit environment. Aim at a featureless, flat area such as a wall or the open sky. If the reticle is not sharply defined at first glance, turn the **Fast Focus Eyepiece** in or out for adjustment until the reticle appears in sharp focus.

The Uni-Dial 5-30X56 is equipped with a red or green illuminated MRAD etched glass reticle. The rheostat has 11-positions for varying the brightness of reticle illumination. For best results in a low light situation, we recommend that you set the brightness as low as possible while maintaining clear vision of the reticle. The "NV1, NV2, and NV3" positions are designated for use with night vision optics. The settings 4 and 5 are for low light illumination. The settings 6 to 9 are the intermediate brightness settings. The Max position is the brightest setting. There are two "Off" positions that are located at 0° and 180° positions. There is a protruded rib at the main "0" off position to help the shooter locate the main off position in

## UNI-DIAL 5X-30X56

low light. The two off positions will ambidextrously allow shooters to power off the illumination, from both the right and left side. The rheostat is positioned to the left on the eyepiece. The battery compartment, located underneath the cap on the rheostat knob, uses standard CR2032 3V lithium coin batteries. When replacing batteries, place the CR2032 battery with “+” side facing up and retighten the cover.

**WARNING: NEVER LOOK DIRECTLY AT THE SUN WITH THIS PRODUCT, OR EVEN THE NAKED EYE. YOU COULD PERMANENTLY DAMAGE YOUR EYES.**

### SECTION 3

#### MOUNTING

To achieve the best accuracy possible from your rifle, the scope must be mounted properly. You should use a high-quality mount with bases designed to fit your particular rifle.

# INSTRUCTIONAL MANUAL

To mount the scope:

- A. The scope should be mounted as low as possible without touching either the barrel or the receiver.
- B. Look through the scope in your normal shooting position. Adjust the scope (either forward or backward) until you find the furthest point forward (to ensure maximum eye relief) that allows you to see a full field of view.
- C. Rotate the scope in the rings until the reticle pattern is perpendicular to the bore. Check to make sure that the elevation turret is on top.
- D. Tighten the mounting screws. We recommend that you tighten the rings to no more than **15 INCH LBS** of torque.

WARNING: AVOID OVER-TIGHTENING THE RINGS. THIS CAN DAMAGE THE SCOPE, AFFECTING PERFORMANCE OR RENDERING IT INOPERABLE. THERE SHOULD BE A SLIGHT EVEN GAP BETWEEN THE UPPER AND LOWER HALVES OF THE RINGS. BE SURE THAT THE SCOPE IS MOUNTED FAR ENOUGH FORWARD. ITS REARWARD MOTION MAY INJURE THE SHOOTER WHEN THE RIFLE RECOILS.

# UNI-DIAL 5X-30X56

## SECTION 4

### PRE-ZEROING

Pre-zero sighting can be done either manually, or with a bore-sighting device.

To bore sight manually:

- A. It is necessary to be able to see through the bore from the breech end. In the case of a bolt action, this usually means removing the bolt.
- B. If your scope has parallax adjustment, set it for the range to the target.
- C. Set the variable-power scope to its lowest power.
- D. Look through the bore and center the target in the bore. Adjust the elevation and windage turrets to position the reticle on the center of the target.
- E. Turn the windage turret clockwise to move the point of impact right and counterclockwise to move the point of impact left.
- F. Turn the elevation turret clockwise to lower the point of impact and counterclockwise to raise the point of the impact.

# INSTRUCTIONAL MANUAL

- G. If you require a large amount of adjustment to align the reticle, we recommend that you make approximately one-half of the windage correction, then approximately one-half of the required elevation correction.
- H. Finish by applying the remaining windage and elevation correction.

If you can't see through the bore then it will be necessary to use some type of bore-sighting device. When using a bore-sighting device, follow the instructions provided with the boresighter

**NOTE:** If your mounting system allows for external adjustment, we recommend that you make the majority of windage adjustment externally in the mount. Save the internal scope adjustment for fine tuning your shot placement.

## SECTION 5

### ZEROING

This turret has MRAD adjustment. The value for the elevation and windage clicks are 0.125 MRAD and 0.1 MRAD, respectively. After you zero the scope you can loosen the locking screw on top of the turret to re-index the turret markings to your zero.

## UNI-DIAL 5X-30X56

DANGER: IF A BORE SIGHTING COLLIMATOR OR ANY OTHER BORE OBSTRUCTING DEVICE WAS USED, IT MUST BE REMOVED BEFORE PROCEEDING. ANY OBSTRUCTION OF THE BORE CAN CAUSE SERIOUS DAMAGE TO THE GUN AND POSSIBLE PERSONAL INJURY TO YOU AND OTHERS NEARBY.

The zeroing range will depend on your shooting/hunting conditions.

- A. In general, if most of your shots will be at short range, zero your scope at 100 yards. For long-range shooting at big game, most experienced shooters zero-in at 200 yards.
- B. Adjust the parallax knob to the range of the target you're shooting. Set variable-power scopes to the highest power.
- C. From a rested position, fire three rounds at the target.
- D. Observe the center of the points of impact on the target and adjust the windage and elevation screws as needed to bring the point of aim to the desired relationship to the points of impact. The point of impact moves in the direction indicated on the adjustment by the amount indicated.
- E. Repeat as necessary.
- F. Once the zeroing of the rifle is completed, you can replace the windage and elevation turrets caps to prevent losing your zero.

# INSTRUCTIONAL MANUAL

Each click of the adjustment changes bullet impact at 100 meters by the 1 cm. To calculate the click value at distances other than 100 meters, use the following formula:

$$(Distance\_in\_meters) / 100 * (adjustment\_click\_value\_at\_100m)$$

This will give you the actual click value of the scope at that distance.

For Example: Your range is 200 meters. Actual elevation click value at 200 meters =  $(200\ meters)/100 * 1.25\ cm = 2.5\ cm$ . Thus, the elevation adjustment at 200 meters is 2.5 cm per click. For windage, the actual click value =  $200m / 100 * 1\ cm = 2\ cm$  per click on windage.

Once the zeroing of the rifle is completed, you can re-index the adjustment turrets to your zero by loosening the locking screw at the top of the turret and rotating it clockwise until the zero on the turret is facing the arrow.

**WARNING: ALL SHOOTING SHOULD BE DONE AT AN APPROVED RANGE, OR SAFE AREA. EYE AND EAR PROTECTION IS RECOMMENDED.**

# UNI-DIAL 5X-30X56

## SECTION 6

### PARALLAX CORRECTION (Models Greater Than 10X)

The parallax adjustment is located at left side of the scope. It allows for parallax correction at various user-selected ranges from 25 or less meters up to infinity. To be parallax free, the target must be located at the distance for which the scope is focused. Targets at any other distance will cause parallax. Parallax manifests itself as apparent movement of the reticle against the stationary target.

## SECTION 7

### SETTING THE UNI-DIAL BALLISTIC TURRET

The Uni-Dial 5X-30X features an improved tool-free ballistic turret. There are six color coded markers on the ballistic turret that you can set. To adjust the ballistic

# INSTRUCTIONAL MANUAL

turret stops, follow these steps:

- 1) Loosen the locking screw on the top of the elevation turret
- 2) Determine your drop data for your rifle and caliber based on D.O.P.E. (Data of Previous Engagement) or using a ballistic calculator.
- 3) Set the markers to represent various distances for quick dialing.
- 4) Tighten the locking turret screw to lock down the markers.



## SECTION 8

### MAINTAINING YOUR RIFLESCOPE

Your scope, though amazingly tough, is a precision instrument that deserves reasonable and cautious care. For normal maintenance:

- A. Do not attempt to disassemble or clean the scope internally.
- B. The external optical surfaces should occasionally be wiped clear with the lens cloth provided or an optical quality lens paper.
- C. Keep the protective lens covers in place when the scope is not in use.
- D. Remove any external dirt or sand with a soft brush so as to avoid scratching the finish.
- E. Wipe the scope with a damp cloth, followed by a dry cloth.
- F. Then go over the metal portions of the scope with a silicon treated cloth in order to protect the scope against corrosion.
- G. Store the scope in a moisture-free environment.
- H. Avoid storing the scope in a hot place, such as the passenger compartments

# INSTRUCTIONAL MANUAL

of a vehicle on hot days. The high temperatures could adversely affect the lubricants and sealants. A vehicle's trunk, a gun cabinet or a closet are the preferred storage locations.

- I. Never leave the scope where direct sunlight can enter either the objective or the eyepiece lens. Damage may result from the concentration of the sun's rays (burning glass effect).

WARNING: UNNECESSARY RUBBING OR USE OF A COARSE CLOTH MAY CAUSE PERMANENT DAMAGE TO LENS COATINGS.

## SECTION 9

### DIAMONDTUFF LIFETIME WARRANTY

Hi-Lux, Inc. warrants its products against defects arising from faulty workmanship, or materials, for the lifetime of the product. **Normal wear and tear is not covered under this warranty policy.** Any attempt to alter, dismantle or change the standard specifications of the products, will make this warranty null and void.

## UNI-DIAL 5X-30X56

This warranty is made to the original purchaser of the goods including all international sales, and applies only to the products purchased through our authorized distributors or dealers. The international warranty is subject to approval from our authorized distributor or us directly. The warranty is transferable.

Warranty obligation is limited to the repair or replacement of any product returned to Hi-Lux, Inc. that is determined by the manufacturer to have defects arising from faulty workmanship or materials that adversely affect the satisfactory operation of the product. It should be noted that on items containing an etched glass reticle, that the occasional appearance of some small particles is common and not a warrantable repair.

Hi-Lux offers a **two year warranty for the electronic components** that are contained on the products. Hi-Lux, Inc. reserves the right to request proof of purchase and purchase date. We assume no liability for any incidental or consequential damages, or incidental expenses. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you. No warranties are made, or are authorized to be made, other than those expressly contained herein.

# INSTRUCTIONAL MANUAL

To file a claim under this warranty, please contact the Customer Service Department of Hi-Lux, Inc. at (310) 257-8142 to obtain a Return Authorization number (RA number). After receiving your RA number, please mark the number on the outside of the package; enclose the defective item with a brief explanation of the problem. Please be sure to include your name, address and phone number. Failure to obtain a RA number may result in either refusal upon delivery, or lengthy delays for warranty repairs and service required for the item returned to us. All scopes are to be shipped prepaid direct to Hi-Lux, Inc. and must include a check or money order in the amount of \$21 to cover return postage and handling, regardless of purchase date.

Attn.: Warranty & Service Dept.

Hi-Lux, Inc.

3135 Kashiwa Street

Torrance, CA 90505

Tel: (310) 257-8142, Fax: (310) 257-8096

E-Mail: [techservice@hi-luxoptics.com](mailto:techservice@hi-luxoptics.com)

[www.hi-luxoptics.com](http://www.hi-luxoptics.com)



*Leatherwood*



@LEATHERWOODOPTICS



/LEATHERWOODHILUXOPTICS



@HILUXOPTICS



HI-LUXOPTICS.COM