



**Phenom UHD 20-60X85
Spotting Scope**

INSTRUCTIONAL MANUAL

Hi-Lux Optics



Phenom UHD Spotting Scope

The Phenom UHD is a versatile 85mm spotting scope that is perfect for glassing for hours on end without eye fatigue. The large field of view and zoom range ensure that you are excellently prepared for any situation.

The Phenom UHD Spotting scope incorporates porro prisms, fully multicoated Ultra High Definition lenses and Extra Low Dispersion Elements. All components are made to the tightest possible tolerances, which results in unparalleled sharpness and comfortable viewing.

By coupling our 50 years experience in manufacturing optics with our commitment to quality and customer service, we trust that the Leatherwood Hi-Lux Optics Phenom UHD Spotting Scope rewards you with years of dependable service and impressive optical quality.

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SECTION 1 - SPECIFICATIONS

Model	Power	Objective Lens Diameter	Eye Relief	Exit Pupil Diameter	Angular Field Of View	Linear Field Of View	Shortest Focus Distance	Twilight Factor
Phenom UHD	20-60X	85mm	20mm-18mm	4mm - 1.4mm	2° - 1°	104' - 53'	29'	41 - 71

All air-glass surfaces are fully multi-coated using our Proprietary DiamondTuff14 to reduce glare and maximize the light transmission. The Phenom UHD 20-80X85 uses porro prisms and is argon purged to prevent internal fogging. Special ED glass elements are used to eliminate color fringing.

BASIC DEFINITIONS:



SECTION 2: BASIC OPERATIONS

Attaching the Eyepiece

Before attaching the eyepiece, remove the lens cover on the bottom of the eyepiece. We recommend that you keep the exterior lens covers handy to prevent foreign material from entering the lens.

- 1) To attach the eyepiece, line up the indicator mark near the base of the eyepiece with the orange dot on the spotting scope body. Insert the eyepiece into the body and rotate the eyepiece clockwise $\frac{1}{4}$ turn until the eyepiece clicks into place and is lined up with the indicator line.
- 2) To remove the eyepiece, press and hold the eyepiece lock down and rotate the eyepiece $\frac{1}{4}$ turn counter clockwise.



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Mounting the Spotting Scope

There are many variables that come into play when looking down range. Some of these factors include mirage, wind, humidity among others. For best results when spotting, we recommend using a tripod for steady viewing. Secure the tripod mount foot on a quick release plate on the tripod head.

The tripod mount foot has 1/4-20 threads and is compatible with any 1/4-20 thread screw mounting plate.



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SECTION 3: ADJUSTING MAGNIFICATION

The Phenom UHD 20-60X85 spotting scope has a 20-60X magnification range. At lower magnification settings, the wider field of view is suitable for target identification. Higher magnifications are ideal when you need to zoom in on the target to see detail.

Increase the magnification by turning the adjustment ring in a clockwise direction.

Decrease the magnification by turning the adjustment ring in a counterclockwise direction.



SECTION 4: ADJUSTING FOCUS

After setting the magnification, you will need to refocus the spotting scope. This is due to changing the focal distance of the spotting scope.

To adjust the focus, slowly rotate the center focus ring until the image becomes sharply defined.



SECTION 5: ADJUSTING THE EYECUP

The adjustable eyecup on the Phenom UHD spotting scope twists up and down so that you can see the full field of view regardless if you wear glasses or not.

Fully extend the eyecup for the best viewing without glasses. Adjust the eyecup position by twisting on the eyecup.



SECTION 6: ADJUSTING THE VIEWING ANGLE

The Phenom UHD Tripod Mount Collar allows you to rotate the spotting scope body for greater viewing flexibility. To rotate the body, first loosen the thumbscrew on the mounting collar. There are detents located every 45 degrees.

Lock the scope body in your preferred viewing position by rotating the mounting collar thumbscrew clockwise.



SECTION 7: USING THE EXTENDABLE SUNSHADE

Extendable Sunshade

Extend this fitted hood to effectively block out disturbing stray light. The sunshade also shields the objective lens from mechanical damage and guards against soiling by fingerprints and precipitation.



Telescoping Sunshade

SECTION 8: MAINTAINING YOUR SCOPE

This sight, 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 sight internally.
- B. The external optical lenses should occasionally be wiped with the microfiber lens cloth provided or optical quality lens paper.
- C. Remove any external dirt or sand with a soft brush so as to avoid scratching the finish.
- D. Wipe the sight with a damp cloth, followed by a dry cloth.
- E. Then go over the metal portions of the sight with a silicon treated cloth in order to protect the sight against corrosion.
- F. Store the sight in a moisture-free environment.
- G. Avoid storing the sight in a hot place, such as the passenger compartments of a vehicle on hot days. The high temperatures could adversely affect the lubricants and sealants.

- H. Never leave the sight 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 GUARANTEE

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.

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,

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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, Inc. 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. To guarantee warranty service, the enclosed warranty form must be completed and returned within ninety (90) days of purchase to establish all warranty rights between you, the original purchaser, and Hi-Lux, Inc.

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. 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.

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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.

Attention: Warranty & Service Department

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In the event of a non-warranty repair, you will receive an estimate prior to any work being done. This warranty gives you specific legal rights and you may have other rights, which vary from state to state.

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