

ELEMENT[®]

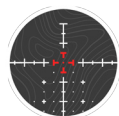


HELIX HD 1-8x24

OWNER'S MANUAL

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ILLUMINATED
RETICLE



HD OPTICAL
SYSTEM



30MM TUBE



SHOCKPROOF



LIFETIME
WARRANTY



WEATHER
RESISTANT



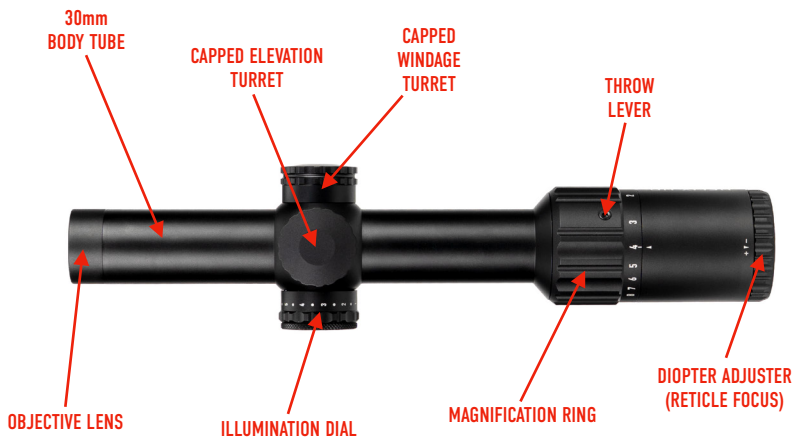
SECOND FOCAL
PLANE



FULLY MULTI-
COATED

MEET THE HELIX HD.

We've designed the HELIX in a way that puts the important things first: clear glass, solid construction and reliable mechanical performance. The HELIX HD 1-8 takes things one step further, with High Density Glass, Fiber Optic Illumination, an 8x Zoom Range and a wide Field of View. We've capped both the windage and elevation turrets for a more hunter-friendly, compact feel. Stringent quality control procedures give you peace of mind when taking that critical shot, and if something goes wrong, our Platinum Lifetime Warranty has you covered!



Your rifle system is only as good as its weakest point, and so mounting of a riflescope is a very critical process that requires time and precision. If you feel uncomfortable doing this yourself we suggest visiting a gunsmith, as incorrect mounting can cause many issues down the line.

Choosing Rings

The HELIX HD requires 30mm rings. When purchasing rings for this riflescope, choose a quality product - Inferior rings may not align correctly and can damage your scope.

Ensure that your rings are the correct height above the bore & action for safe clearance and a comfortable cheek weld.

We recommend using a tilted base or adjustable rings if shooting at extended ranges. **NEVER USE SCOPE SHIMS**, as these can cause damage to your body tube and void your warranty. **DO NOT** torque the rings down using more than **18 in-lbs (2 NM)** of force, as this can also cause damage to the body tube or affect internal components.

Alignment & Eye Relief

1) When fitting the riflescope to your rifle, ensure that the rings are firmly attached to the rifle **BEFORE** you tighten the top screws down.

2) With the riflescope in place, torque the screws down until you begin to feel some resistance, but make sure you are still able to move the riflescope back and forth.

3) Get behind the rifle in a shooting position and move the riflescope forward or backward until the eye relief is best suited to your position.

4) With the eye relief set, use a set of bubble levels or a plumbline to ensure that the riflescope is level. A canted reticle will cause point of impact drift to the left or right, and affect accuracy.



5) Once you are happy with the position of your riflescope, begin to torque down your rings in a criss-cross pattern, moving between screws and turning small amounts at a time. Use a torque of 15-18 in-lbs. This will ensure that the riflescope does not shift position while tightening.

Diopter - Focusing the Reticle

Everybody's eye is different, and the ocular lens will need to be adjusted for your eye in order for the reticle to appear in focus.

To do this, point the riflescope towards a blank or featureless background (i.e. a white wall or blue sky) and turn the ocular adjustment ring clockwise and counter-clockwise until the reticle appears in optimum focus.



Tip: Your eye will try to compensate for an out-of-focus reticle, so it may help to turn your parallax to minimum and look towards a far-off background. This will blur the background and allow your eye to focus on the reticle itself.

Adjusting Magnification

The HELIX HD features a magnification of 1-8x, and can be adjusted using the magnification ring near the rear of the riflescope.

The ring is marked with magnification powers from 1x up to 8x, and will line up precisely with the arrow on the ocular tube to indicate magnification.



This model is in Second Focal Plane, which means that the subtensions of the reticle will change with respect to the target as magnification is changed

- The reticle is calibrated at 8x, and reticle subtensions will be correct at this setting.

Illuminated Reticle

The HELIX HD features an illumination dial with 11 different brightness settings and “off” positions between clicks. The Illuminated Centre Dot of the L4A reticle will help you aim in difficult light conditions when the reticle is difficult to see.

The illumination system uses a **CR2032 battery**, which can be found at most hardware stores.



⚠ WARNING	
• INGESTION HAZARD: This product contains a button cell or coin battery. • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH OF CHILDREN • Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	

Fitting/Removing the Throw Lever

Each HELIX riflescope comes standard with a throw lever that enables fast adjustment of the magnification ring. This can be removed simply by unscrewing and replacing with the included hex screw.



Your HELIX HD will need to be zeroed after it has been fitted to your rifle. The first step is to remove the turret caps to expose the turrets.

Remove the Turret Caps

The HELIX HD is fitted with turret caps that protect the turret mechanisms. Turn counterclockwise to remove.



Adjusting the Turrets

Your HELIX HD has turrets that use Milliradians (MRAD). This is an angular of measurement. To keep things simple, this is all you need to know when zeroing: At 100 Meters, one click will move your point of impact 1 Centimetre (0.1 MRAD)

- To move your Point of Impact UP, turn ANTI-CLOCKWISE on your ELEVATION TURRET.
- To move your Point of Impact DOWN, turn CLOCKWISE on your ELEVATION TURRET.
- To move your Point of Impact RIGHT, turn ANTI-CLOCKWISE on your WINDAGE TURRET.
- To move your Point of Impact LEFT, turn CLOCKWISE on your WINDAGE TURRET.

Boresighting

The HELIX HD is optically zeroed at the factory, so it should be close to centre when fitted. Even so, it is important to check that you are “on paper” to avoid frustration. Bore-sight your rifle to ensure that your reticle is roughly aligned before fine-tuning.

Fine-Tuning your Zero

You will need to fine-tune your zero after bore sighting, and this is done by putting shots on paper at a set distance. You can then assess the point of impact and adjust the turrets to shift your POI back to centre.

For example, if your POI is 10cm low and 5cm right, you will adjust your turrets 10 clicks UP and 5 clicks LEFT to shift your reticle position to match your POI.

We recommend taking a 3-shot group to confirm your zero before continuing to the next step. We also recommend a zero distance of 100yds/m for centerfire rifles, 50yds/m for rimfires and 20-50yds/m for airguns. If you cannot boresight your rifle, start at a closer distance to get on paper, and then move out further to make precise adjustments.

Slipping your Turret back to Zero

Once zeroed, you will want to set your turret housings so that the “0” on your turrets line up with the indicator.

- 1) There is a locking screw on top of each turret holding the outer cap in place. Using the rim of a cartridge, a coin or a screwdriver, loosen this screw and lift the turret housing off.
- 2) Line up the “0” on the turret housing with the indicator line and push it down into position. The teeth on the turret housing will match up with the teeth on the turret rod.
- 3) With one hand holding the turret firmly in place, turn the locking screw clockwise to lock the turret housing in place.
- 4) The windage turret can be reset in the same way.
- 5) Replace protective turret caps.

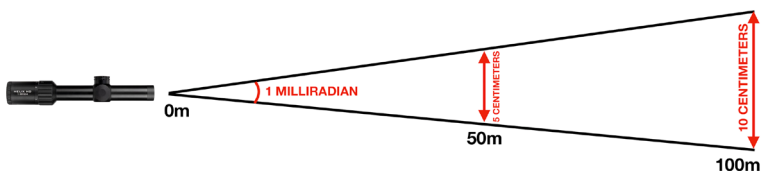


With your turrets set, you will now be able to use data from ballistics calculators and dial your turrets for long-range shooting instead of using reticle holdover!

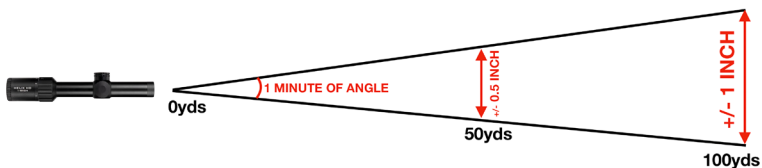
While it is possible to use your riflescope without understanding how these systems work, it is best to know the basic concepts, as they are an integral part of “Shooting Education”, and will help you get the best out of your riflescope.

The two units we use in the shooting world are Milliradians (MRAD or MIL for short) and Minutes of Angle (MOA for short). The concept behind these two is very similar: They are angular units of measurement, meaning they can be used at any distance to quantify the distance between turret clicks and reticle markings. Technically speaking, one MRAD = 1/1000 of a Radian, and one MOA = 1/60 of a Degree. But that doesn't help us.

In simple terms, ONE MRAD = 10cm at 100m, and ONE MOA = 1.047” at 100yds.

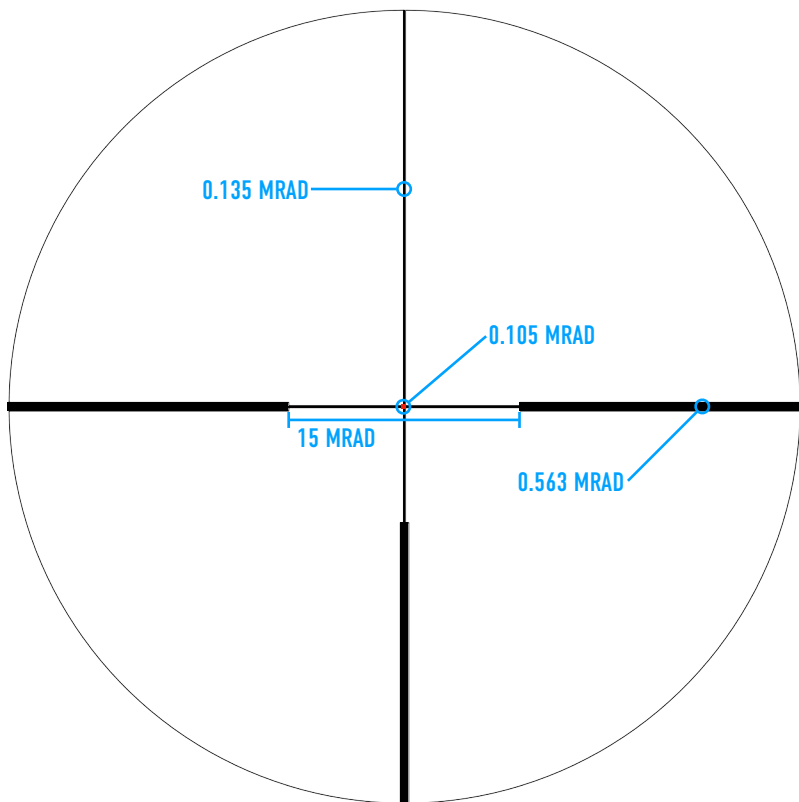


This makes these two units very useful, because we can relate them to units of measurement we use every day.



Most riflescope turrets are divided up into smaller units for more precise adjustments. The HELIX HD features 1/10 MRAD or 1/4 MOA click adjustments.

The HELIX HD 1-8 features a L4A Reticle. This is a simple 4A-style reticle with fiber optic illumination, which allows for a small but very bright center dot for use in bright daylight or at dawn/dusk. Reticle subtensions can be found below, calibrated at 8x magnification.



The HELIX HD includes a number of accessories right out the box:

TRANSPARENT FLIP CAPS:

All HELIX models include flip caps as part of the package, however as a 'hunting scope', we recognise that you may want to keep the flip caps closed in poor weather conditions to keep the lens dry. The transparent caps allow you to still use the scope with caps closed, although you probably want to take the extra second to open them to get the full "HD" experience!



ALLEN KEY & LENS CLOTH:

The included hex key & lens cloth should save you some time: Don't feel the need to dig around for the right tools, they are all there!

THROW LEVER:

This been mentioned in the manual already - Make sure to keep it in a safe place when not in use.

SPARES:

What if you lose a turret cap or throw lever out in the field? Don't worry, we have you covered! We keep stock of spares for this very reason, and also have bits & pieces available on our web shop for purchase.

As shooters, we know that there is nothing worse than being let down by your equipment. We have made every effort to build a rugged, reliable product that will not break under any normal circumstances, and have implemented some of the strictest quality control measures in the industry. However, we know that things can go wrong, and therefore All Element Riflescopes are covered by our PLATINUM LIFETIME WARRANTY. This includes lifetime cover for any riflescopes damaged through normal use, and requires no registration, proof of purchase or transfer. If you have a problem, we will fix it - It's that easy!

For any warranty claims, please contact support@element-optics.com or complete a claim form on our website.



The Element Optics PLATINUM LIFETIME WARRANTY applies to riflescopes only, and does not cover accessories. Theft, loss, deliberate damage and cosmetic damage that does not hinder the operation of the riflescope is not covered. If your product can not be repaired and a replacement model is no longer in production, a model of equal value will be substituted. For more details, visit www.element-optics.com/warranty

SPEC SHEET

MAGNIFICATION RANGE	1-8x
TUBE DIAMETER	30mm
OBJECTIVE LENS DIAMETER	24mm
EXIT PUPIL	8.5-3mm
EYE RELIEF	95mm
FIELD OF VIEW	41-5.13 m @100m
CLICK VALUE	0.1 MRAD
ELEVATION ADJUSTMENT RANGE	40 MRAD
WINDAGE ADJUSTMENT RANGE	40 MRAD
PARALLAX	Fixed 100m
LENGTH	284mm (11.18")
WEIGHT	519g (18.3oz)



www.element-optics.com