



OWNER'S MANUAL

HX

SERIES

 **optisan**[®]
PRECISION SHOOTING OPTICS

Congratulations on owning the Optisan HX scope, designed and precision-engineered for enthusiast precision shooters. Chosen and trusted by Champion shooters around the world.

This manual covers guidance for both second focal plane and first focal plane models of HX series. Please review thoroughly and pay attention to the guidance applies to your specific scope.

OVERVIEW

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GETTING TO KNOW YOUR SCOPE

HX 3-9X40
HX 4-12X40



HX 4-12X40AO



DIOPTER ADJUSTMENT / FOCUSING RETICLE

Before mounting the scope, we must make sure your eyes are correctly focused to reticle. Failure to correctly focus could result in parallax error. Normally, this adjustment only needs to be carried out once and is unique to your eye. In the rare case when you haven't been shooting for a while and your eyesight or prescription glasses have changed, always come back and check if reticle is correctly focused before shooting.

To focus the reticle, point the scope at a blank wall or sky (not at the sun!) Rotate the focus ring to get the sharpest possible reticule.

Hint: Do not look through the eyepiece while turning the focus ring for more than a few seconds at a time as your eye will compensate for less than perfect sharpness. Look away and take a quick glance back to the reticle and check if reticle is sharp and black. If it is, you are focused correctly to the reticle.

MOUNTING THE SCOPE

Optisan HX riflescope requires 1 inch rings. The scope must be mounted using 1 inch diameter rings. These rings should not be over-tightened or damage may occur. Ensure rings are high enough to allow the scope objective lens to clear the rifle, but not unnecessarily high as sighting can become difficult and uncomfortable.

Please do not use poor quality mounts as they will cause misalignment and inaccuracy. Ensure the horizontal cross hair is parallel to the action. This is best done by placing a bubble level on the action and sighting the vertical cross hair down a vertical edge / plumb line. Use care when mounting your scope as damage caused by improper mounting would void warranty.

ADJUSTING PARALLAX (for AO models only)

Parallax is the apparent movement of the reticle in relation to your target when your eye moves off centre to the scope (known as parallax error). Adjusting parallax will also focus your target and reticle together for clarity in both optics field.

To check if the parallax is set correctly, move your eye slightly side-to-side and up and down, the parallax free target should not move in relation to the reticle and if your eye piece is focused correctly both your target and reticle will be clear in relation to each other.

Observing the distance marks on parallax ring you may find only one distance shown on parallax ring with reference line next to it. This is the distance parallax is pre-set at the factory to be parallax free. The factory "pre-set parallax-free distance" differ from model to model.

NOTE: Never try to zero without a perfect parallax free image/-setting, aiming errors will occur due to parallax error.

ZEROING YOUR RIFLE

Choose a calm venue to eliminate any elements such as wind or rain as this can affect your point of impact. Place a suitable target at a closer distance than required for your calibre ensuring you have a strong backing behind the target.

Ensure the rifle is held steadily and take 1 shot. Observe the bullet strike. **Use the Elevation Turret to move the point of impact UP (anti-clockwise) or DOWN (clockwise) and the Windage turret to move the point of impact LEFT (clockwise) or RIGHT (anti-clockwise).** When the point of impact is in the center of the target, this can then be repeated at progressively further ranges until the chosen zero range is reached.

When you are happy that your rifle is zeroed correctly, lift up the turret scale and realign zero to vertical reference line.

RETICLE DIMENSION / SPACING

Detailed reticle spacing information is included on a leaflet that comes in the box and corresponds to the scope/reticle delivered.

All HX scopes reticles are all second focal plane, the reticle dimension is only correct at the magnification specified on the reticle leaflet. For your convenience you will also find a reference line underneath the magnification power on the magnification adjustment wheel (power ring), this is where the reticle spacing is correct at.

CARE AND MAINTENANCE

Please DO:

Keep the lens surface free from dirt. In the case where it gets dirt or sand on the lens, remove the large particles with moisture free blower and clean it with a soft lintless cloth.

Please DO NOT:

1) DO NOT LOOK DIRECTLY AT THE SUN THROUGH THE SCOPES OR ANY OPTICAL INSTRUMENT! THIS COULD LEAD TO PERMANENT DAMAGE TO YOUR EYES.

2) DO NOT attempt to disassemble the optical instrument unit or eyepiece. Specialized equipment is required for service. Irreparable damage from untrained or unauthorized service could void the warranty.

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