T50i+ 5-50x60i SFP ED

EXTRA-LOW DISPERSION GLASS

FALCON
OPTICAL SYSTEMS

Features

- ED glass supply : HOYA Corporation Japan (FCD1A)
- Zero-stop (unrestricted)
- Large elevation turret with revolution index scale
- Capped windage turret
- Aluminium flip covers (fold flat and magnetic)
- +80.0MOA elevation travel range with 0.125MOA per click and 10.0MOA per turn
- Wide angle optical system with wide and flat field of view, even at low magnification
- Expansive 10x zoom erector configuration with versatile 5-50 magnification range
- Robust 34mm tube design of single piece construction
- Enhanced Competition Dot Reticle (Red Illuminated)
- Glass Etched reticle (fine) with MOA calibraton at 12.5x, 25x and 50x.
- 6 illumination settings with an "off" between each step
- Includes a throw lever for magnification ring and sunshade
- Nitrogen Purged, waterproof, fogproof, shockproof
- Each unit is hand tested in the United Kingdom before sale

Specification

MAGNIFICATION RANGE	5-50x
FIELD OF VIEW @ 100M	7.9m-0.8m
EYE RELIEF	110mm - 92mm
MAX ELEVATION ADJUSTMENT RANGE	80.0+ MOA
MAX WINDAGE ADJUSTMENT RANGE	30.0+ MOA
ADJUSTMENT VALUE PER CLICK	0.125 MOA
ADJUSTMENT PER TURN	10.0 MOA
PARALLAX DISTANCE	From 10M
RETICLE CHOICES	Enhanced Competition Dot (Red Illuminated)
RETICLE INSTALL	Second Focal
TOTAL LENGTH	408mm
WEIGHT	1100g
TUBE DIAMETER	34mm
CONSTRUCTION	1 Piece Tube/Saddle
OBJECTIVE LENS DIAMETER	60.0mm
OUTER OBJECTIVE DIAMETER	68.5mm
OUTER OCULAR DIAMETER	44.5mm
ADDITIONAL SUNSHADES	1 Supplied
EXTRAS	Aluminium flip covers, Zero-stop, Bikini covers
CONFIGURATIONS AND ORDER CODES	T50iB (E-CDi w 1/8MOA Adjustment)

What's Included?

- Turret cap driver tool
- Sunshade
- Lens cleaning cloth
- Throw-Lever for magnification ring
- Bikini lens covers
- Aluminium flip up covers
- Zero-stop ring

Basics

1 - Objective end. Contains the objective lens assembly and objective lens hood.
The sunshade will thread into position here.

2 - Ocular end. This is threaded for adjustment, sometimes referred to diopter correction or 'European style fast focus eyepiece'. See 'Guidance For Use' for instructions on how to adjust this to your eye.

3 - Eyepiece section. Houses the ocular lens assembly

4 - Magnification ring. This rotates to adjust the magnification setting. The throw lever can be installed here.

5 - Illuminated reticle switch. Settings 1- 6 with an off setting between each step. 1= Minimum, 6 = Maximum.

6 - Elevation and Windage turrets. These are used to adjust the position of the reticle and 'zero in'.
Compensate for windage and adjust to engage targets at different ranges.

7 - Side parallax turret (Side Focus). This is used to bring targets in and out of focus.

Guidance For Use

Fast Focus Ocular Lens / Diopter Adjustment

- It's important that the reticle appears sharp and is correctly set to your eye.

- Use the fast focus eyepiece to adjust the sharpness of the reticle to suit your eyesight, by pointing the scope at a featureless bright area such as a wall or open sky. Do not look at the sun!

- Turn the fast focus eyepiece clockwise and anticlockwise until the reticle appears as sharp and defined as possible.

- If the above is not carried out correctly then parallax error may become a problem. Do this first, before the scope is even mounted.

- Once the eyepiece is set then don't adjust it.

Mounting the riflescope

- CAUTION : Make sure the firearm is not loaded when mounting the riflescope.

- T50i+ 5-50x60i is built around a 34mm tube/saddle section of one-piece construction.

- Always use good quality mount rings. Poor quality mount rings may damage your scope and will almost certainly hinder performance.

- Be careful not to crush the scope tube by over tightening the mount rings. Refer to literature supplied with the mount rings to ensure the correct torque settings are used on both the top screws and base screws. Each set of mount rings and supplied screws should be built to a specific tolerance that will determine the correct torque setting. Typically this will be quoted in inch/lbs.

- Equally, under-torqued mount rings can also be an issue, especially in combination with heavy recoil. If the mount ring manufacturer does not identify any torque settings for ring and rail screws then consider a different brand that does.

Windage / Elevation Turret Adjustment

- T50i+ has an adjustment value of 0.125MOA per click. This equates to just over 1/16" @ 50 Yards and 1/8" @ 100 Yards. The total elevation range is +80 MOA.

- The scope features a Zerto-stop ring that can be installed after zeroing the scope. To install then slacken the top mounted holding screw on the elevation turret cap, using the driver tool provided. Remove the turret cap and the internal spline will be visible. Locate the Zero-stop ring over the spline and allow it to drop into position. Rotate the Zero-stop ring in a clockwise motion until it contacts firmly and can rotate no further. To secure the Zero-stop ring then use the supplied hex key to tighten its 3 grub screws. The mechanical Zero-stop will now prevent adjustment below the desired "zero".

- T50i+ will be preset to mechanical centre (midway point of adjustment range) out of the box. Try and keep both the windage and elevation turrets as close to mechanical centre as possible when zeroing. Optical standard and adjustment consistency may suffer at the extremes of any scopes adjustment range. This is why we recommend the use of a tapered base or adjustable mounts/rings to aid zeroing and ensure T50i+ gives the best possible performance. - You will feel a positive resistance 'stop' once the scope reaches the extreme of its elevation or windage adjustment. Don't be tempted to force the turret any further as this will damage the mechanism.

- T50i+ features elevation and windage turret caps that are secured using a single top mounted holding screw The turret caps can be repositioned as required, normally to display '0'. To do this then slacken the holding screw using the driver tool provided in the box. Then disengage the turret cap by easing it off the internal spline. A little upward force may be required to break the O-ring seal. Reposition the turret cap as desired, applying downward force to re-engage the turret with the spline and make the O-ring seal. Finally, retighten the holding screw to secure.

Side Parallax Adjustment

-T50i+ has been designed to enable accurate range finding capability out to 55 yards via the use of the side parallax turret. Careful use of the side parallax turret will appear to bring targets in and out of focus.

- Generally speaking, the higher the magnification setting that is used, then the easier it will be to determine if the target and image is in or out of focus. To enable greater range finding precision then an additional side-wheel can be used with T50i+. For the most accurate results when using an additional side-wheel then its very important that the ranging method remains consistent.

- The start position at the wheel before ranging should always be the same, pick either infinity or minimum parallax distance as the start point and stick to the location of your choosing.

- Adjust the side-wheel in a smooth continuous motion in one direction until the target snaps into sharp focus. If you go too far and the target slips out of focus again, then return to the start point and repeat the process. For the most accurate results then its important to eliminate any back and forth motion at the wheel. To range the next target then return to the start point you have chosen, then repeat the process.

Magnification Adjustment

- T50i+ has a 10x zoom ratio optical system, adjustable from 5-50x power. There are indicator marks on the magnification ring at 12.5, 25 and 50 magnification. These correspond to the MOA accuracy of the reticle at those given magnification settings. For more information see the reticle diagram.

- To adjust the magnification simply rotate the ring by hand to the desired setting. Add the throw lever for extra leverage if you wish. There is an elevated ridge on a the magnification ring, that is threaded to accept the throw lever.

- The zeroed point of impact (POI) should remain unchanged across the entire magnification range, but additional aim points that may be used for holdover/under and windage will change. This is because the reticle is installed in the second focal plane (SFP).

Illuminated Reticle

- T50i+ features an Enhanced Competition Dot Reticle. This illuminates red using dual LED emitters with 1-6 levels of intensity. Its powered by a CR2032 coin battery which is located inside the third turret on the scope saddle. To access the battery compartment then simply rotate the cover that has the coin slot design. If T50i+ has needed to travel to you by Air, then the battery might not be included as standard.

- Unscrew the battery compartment cap counter-clockwise and insert the CR2032 3V battery with the + side facing outwards and the – side facing the scope body. Carefully screw the battery cap back into place, finger tight, taking care not to cross-thread it.

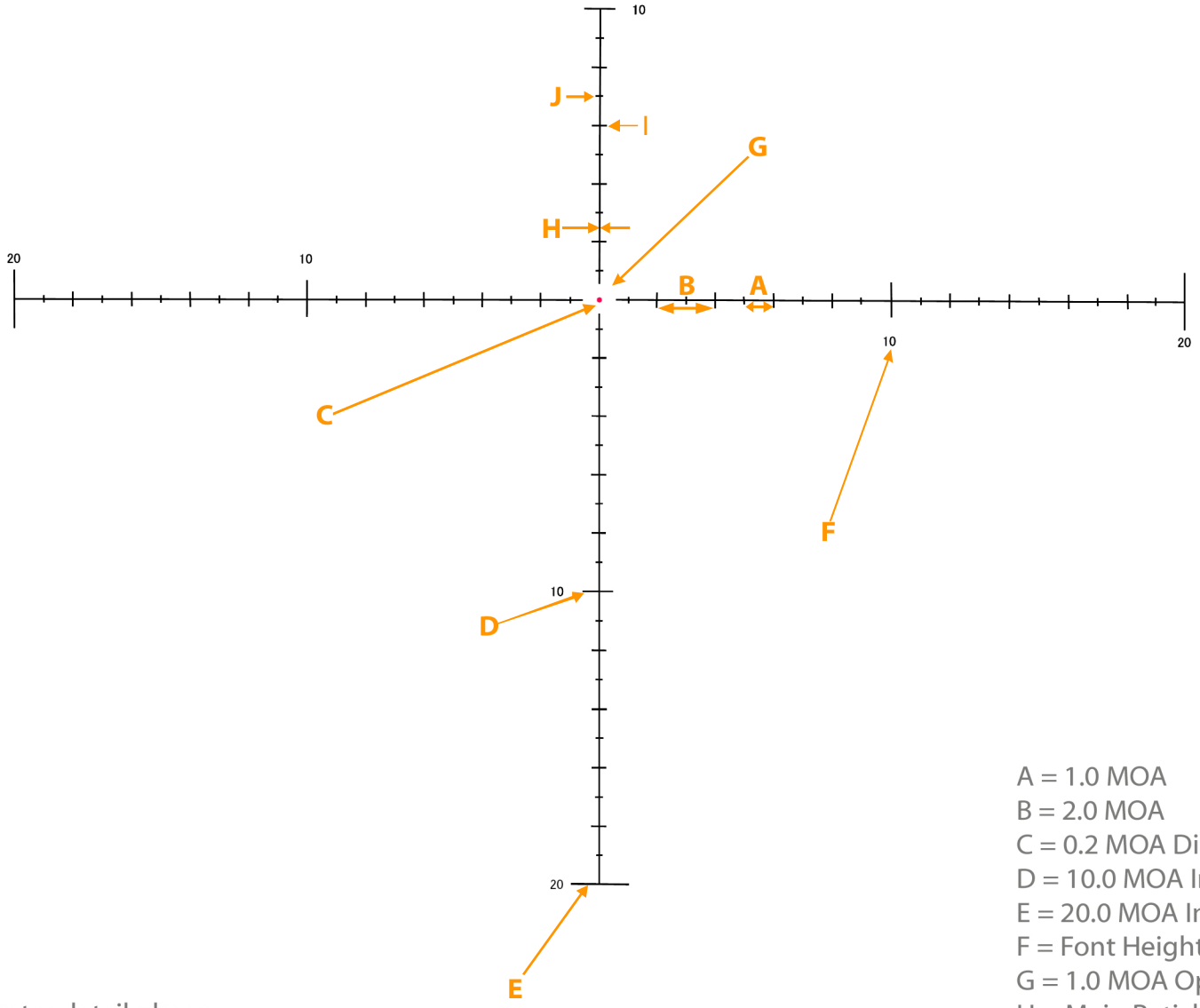
- T50i+ features 6 intensity settings. Simply turn the dial to the desired brightness level. Between each brightness level is an "OFF" setting indicated by a dot in between each number.

- Settings 5>6 are very bright. We don't always recommend these high settings for use during low light, dusk and dawn for example. The reticle could start to loose definition and you may also detect some unwanted stray light from the LED.

Sunshade

- T50i+ is supplied with an additional sunshade. When shooting in low winter sun, or very sunny days then you may find this to be useful. To install then simply thread into the objective end of the scope.

E-CDi Reticle - 25x MOA Accuracy
Enhanced Competition Dot Reticle
MOA Based
Floating Red Dot



A = 1.0 MOA
B = 2.0 MOA
C = 0.2 MOA Diameter Floating Red Dot
D = 10.0 MOA Indicator Line @ 1.0 MOA Width
E = 20.0 MOA Indicator Line @ 2.0 MOA Width
F = Font Height @ 0.35 MOA
G = 1.0 MOA Open Centre
H = Main Reticle Line Width @ 0.08 MOA
I = 2.0 MOA Indicator Line @ 0.5 MOA Width
J = 1.0 MOA Indicator Line @ 0.25 MOA Width

For reticle diagrams in greater detail please visit www.falconoptics.com/resources where higher resolution pdf versions can be downloaded

Care and Maintenance

- With the exception of repositioning the turret caps along with adding/removing throw lever then do not attempt to disassemble the scope.

- Do not tamper with the holding screw on the magnification ring, the coil spring cover underneath the side parallax turret, nor the nitrogen port screw on the base of the saddle.

- Do not attempt to 're-parallax' the scope by adjusting the position of the front lens assembly. In doing so you run the risk nitrogen loss and moisture ingress over time.

- You will feel a positive stop at the end of the travel ranges for the windage and elevation turrets, and focus eyepiece. Don't be tempted to apply more force once you reach the stop.

- When mounting the scope always be sure to check the torque settings for the mounts/rings that you plan to use.

- The external lens surfaces can we wiped clean with the lens cloth provided. Remove any noticeable particles of dirt or sand in advance using a lens blower or a very soft brush. Take care in doing this to ensure the outer lens coatings do not get scratched.

- Store the scope in a moisture free environment. Don't leave the scope in direct sunlight whereby the suns rays can enter either the objective or ocular ends.

- Avoid storing the scope in areas that will reach very high temperatures for long periods of time.

- CAUTION : Never use the scope to look at the sun

Troubleshooting

Can't zero the scope, running out of windage and/or elevation adjustment?

- Rule out common alignment issues such as: barrel alignment and shift, barrel threaded at an angle, rail/receiver install, rail alignment, mount/rings install and alignment

- It might be that a tapered (inclined) rail is necessary in order to gain the desired elevation adjustment.

I'm seeing a dark shadow around the image edges, it seems to disappear at higher magnification but returns at lower magnification

- Windage and/or elevation turrets are dialled to far from mechanical centre. Return them closer to mechanical centre and the shadow will ease.

- If you're having to dial in that much windage/elevation in order to zero then we would recommend the use of a tapered rail.

My group size has opened up after shooting well in the past / Shift in point of impact

- Change to focus eyepiece setting?

- Does the scope appear to be shifting in the mount/rings? Have ring/base screws worked loose?

- Play/movement between the rings/rail/receiver?

- Recent change of ammunition?

- Silencer/moderator alignment?

- Inconsistent head position?

- Windage and/or elevation turrets are dialled to far from mechanical centre? Loss of tension on erector spring. Return closer to mechanical centre.

Optical standard suddenly seems noticeably poorer

- Recent changes to zero and elevation/windage setting? Optical standard may suffer at the extremes of any scopes adjustment range.

- Check for changes to focus eyepiece setting and that parallax is being correctly dialled out.

- Head alignment consistent?

- Shooting in low sun? Use the sunshade.

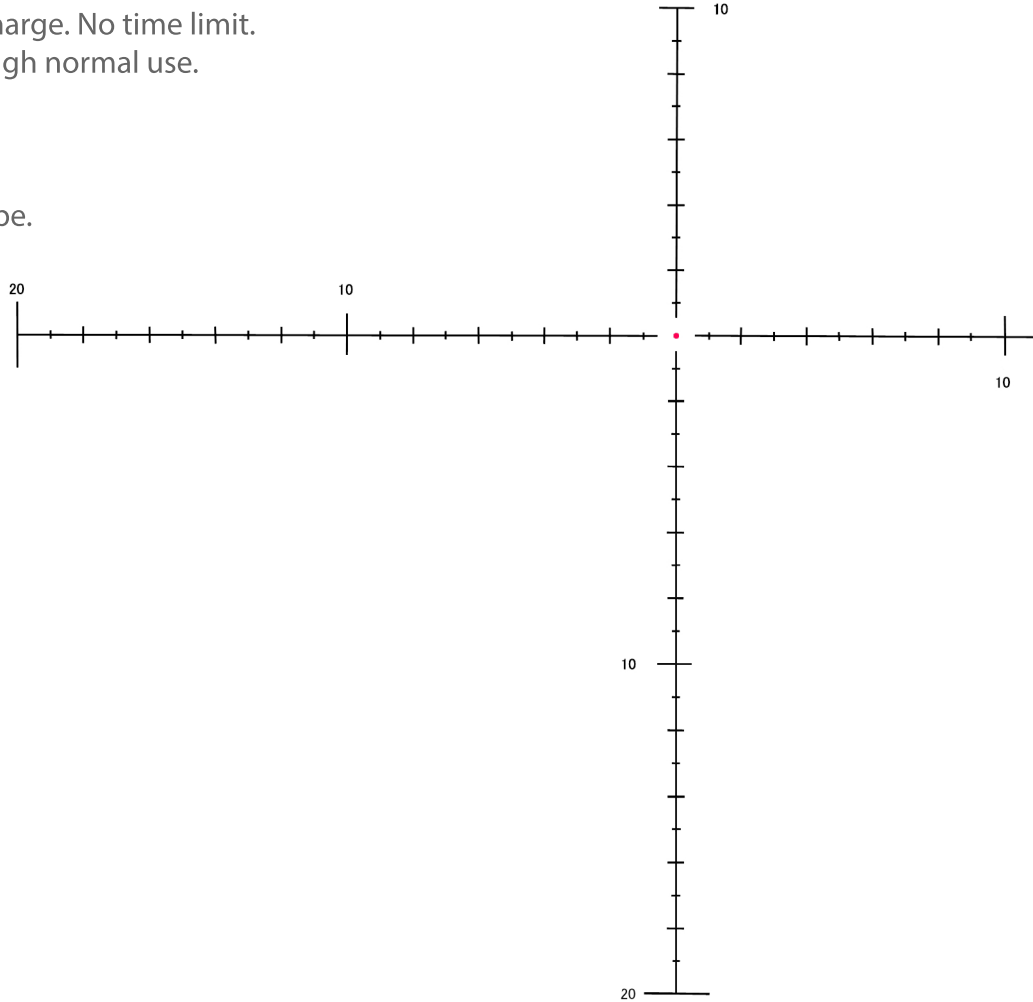
- Check for any obstructions on exterior lens surfaces such as dust, dirt and condensation. See care and maintenance section.

Warranty & Service Commitment

If T50i+ 5-50x60i SFP ED doesn't perform, then we will either repair it, or give you a brand new unit. No charge.

Key Points:

- To request service then contact us directly at service@falconoptics.com
- If the scope performs outside of tolerance then we will repair or replace it. No charge. No time limit.
- Additional service commitment if your T50i+ 5-50x60i SFP ED is damaged through normal use.
- Covers the original owner of the scope. Proof of purchase may be required.
- Additional service commitment for future owners of the scope.
- Excludes loss, theft, deliberate damage, abuse and misuse.
- Also excludes cosmetic damage that doesn't hinder the performance of the scope.
- Excludes supplied accessories.



T50i+

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