# SERIES 3-18x50 FFP IR 5-30x56 FFP



30mm Main Tube 10.0 MRAD Per Turn 0.1 MRAD Adjustment 10m Minimum Parallax FFP Reticle Install Fully Multi Coated Optical System



# SERIES

# What's Included?

Flin up lens covers x 1 set

Lens cleaning cloth x 1

Hex key for windage/elevation turret caps x 1

Threaded sunshade x 1

Objective thread cover (already installed) x 1

### Basics

- 1 **Objective end**. Contains the objective lens assembly and objective lens hood. Both the sunshade and objective cover thread into the objective hood.
- 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 Evepiece section. Houses the ocular lens assembly
- 4 Magnification ring. This rotates to adjust the magnification setting.
- 5 **Side parallax adjustment turret**. Sometimes referred to as 'side focus' or 'SF'. This turret is used to remove parallax. It adjusts back and forth from a minimum parallax distance of around 10m out to infinity.
- 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 with these.
- 7 **Saddle section**. This houses the elevation, windage and side parallax turrets. To the front and rear of the saddle section is the 30mm main tube.
- 8 **Side Parallax Mounted Rheostat**. This houses the battery and control the illuminated reticle on the S18i model. 6 stages of illumination from 1 (low) to 6 (high).





# **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: Ensure the firearm is not loaded when mounting the riflescope.

- All Falcon models are built around a 30mm 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 measured 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

- S Series models have an adjustment value of 0.1MRAD per click
- Its important to remember that the MRAD based adjustment system matches the MRAD nature of the reticle, no inch conversion is required. 1.0MRAD as displayed by the reticle is equal to 10 clicks of adjustment, regardless of target distance.
- S Series models offer 10.0MRAD worth of adjustment per turret revolution. (100 clicks)

### Guidance For Use

- Each scope 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. Sometimes a tapered rail/base or adjustable mounts/rinos may be required.
- 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.
- S Series models feature 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 off the screw using the key provided in the box. Then disengage the turret cap by easing it off the internal shaft. A little force may be required to break the O-ring seal. Reposition the turret cap as desired, and then re-tighten the screw to secure.

### Sunshade

- S Series models are 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 remove the thread cover from the objective lens hood and replace with the sunshade. The thread protector can then added to the end of the sunshade if you wish.

### Side Parallax Adjustment

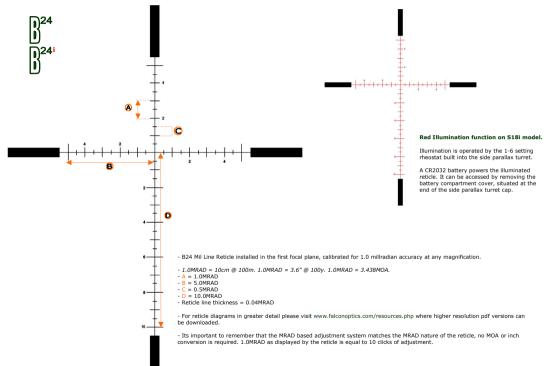
- 'The third turret' will appear to bring targets in and out of focus. It can sometimes be stiff and difficult to rotate straight out of the box, but it will free off with use.
- Use the turret to remove parallax, bringing both the target and the reticle into sharp focus.
- Generally speaking, the higher the magnification setting then the easier it will be to remove parallax.
- The etched distance increments on the side parallax turret cap are not to be relied upon as accurate, they serve as a guide only. The calibration will change with any adjustment to the focus evepiece position. Also, the best way to use a side parallax turret is completely by eye, adjusting and re-adjusting until the target and retide are both in sharp focus. To simply adjust to a pre-etched distance as indicated on the turret is incorrect and could lead to unnecessary error between point of aim and point of impact.

### Magnification Adjustment

- To adjust the magnification simply rotate the ring by hand to the desired setting.
- CAUTION: Do not tamper with the slot head screw on the magnification ring, this does not adjust the ring tension.
- The zeroed point of impact (POI) should remain unchanged across the entire magnification range.

### FFP Reticle Install

- Additional aim points that may be used for holdover/under and windage will also remain unchanged across the entire magnification range. This is because the reticle is installed in the first focal olane (FFP).
- The size of the reticle and size of the target will shrink and grow in unison as you adjust the magnification setting.
- Generally speaking the reticle will appear finer at lower magnification and heavier at higher magnification but in reality the reticle thickness does not alter in relation to the target, it is not dependant on magnification. Reticle thickness in terms of target coverage is exactly the same at 3x as it is a 18x for example.



### Care and Maintenance

- With the exception of repositioning the turret caps along with adding/removing sunshades and the thread protector then do not attempt to disassemble the scope.
- Do not tamper with the slot head screw on the magnification ring, nor the nitrogen port screw on the base of the saddle.
- Do not tamper with the coil spring cover which is situated underneath the side parallax turret on the scope 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, focus eyepiece and side parallax adjustment turret. 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.
- Adjustable mount/rings are also available, often these are windage and elevation adjustable.

### I'm seeing a dark shadow around the image edges, it seems to disappear at higher magnification but return 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 your having to dial in that much windage/elevation in order to zero then we would recommend the use of a tapered rail or adjustable mounts/rings.

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

- Recent change of ammunition?
- Silencer/moderator alignment?
- Inconsistent head position?



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	5-30x56 FFP
MAGNIFICATION RANGE	5-30x
FIELD OF VIEW @ 100M	7.3m - 1.2M
EYE RELIEF @30x	110mm

TOTAL ELEVATION ADJUSTMENT RANGE	>17.0MRAD
ADJUSTMENT VALUE PER CLICK	0.1MRAD
ADJUSTMENT PER TURN	10.0MRAD
MINIMUM PARALLAX DIST. @	
FULL POWER	10M

RETICLE CHOICES	B24 Mil Line Reticle
RETICLE INSTALL	First Focal

TOTAL LENGTH	400mm
WEIGHT	920g
TUBE DIAMETER	30mm
CONSTRUCTION	1 Piece Tube/Saddle/Objective
OBJECTIVE LENS DIAMETER	56mm
OUTER OBJECTIVE DIAMETER	64mm
OUTER OCULAR DIAMETER	44mm

ADDITIONAL SUNSHADES	1 Supplied
FLIP UP LENS COVERS	Yes, Supplied

S3001 - B24 Reticle with 0.1MRAD Adjustment

	3-18x50i FFP
MAGNIFICATION RANGE	3-18x
FIELD OF VIEW @ 100M	13.0-2.2M
EYE RELIEF @30x	110mm

TOTAL ELEVATION ADJUSTMENT	. 27.0 MDAD
RANGE	>27.0 MRAD
ADJUSTMENT VALUE PER CLICK	0.1MRAD
ADJUSTMENT PER TURN	10.0MRAD
MINIMUM PARALLAX DIST. @ FULL POWER	10M

RETICLE CHOICES	B24i Mil Line Reticle Red Illuminated
RETICLE INSTALL	First Focal

TOTAL LENGTH	370mm
WEIGHT	880g
TUBE DIAMETER	30mm
CONSTRUCTION	1 Piece Tube/Saddle/Objective
OBJECTIVE LENS DIAMETER	50mm
OUTER OBJECTIVE DIAMETER	58mm
OUTER OCULAR DIAMETER	44mm

ADDITIONAL SUNSHADES	1 Supplied
FLIP UP LENS COVERS	Yes, Supplied

CONFIGURATIONS AND ORDER CODES S1801 - B24i Reticle with 0.1MRA Adjustment	D
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# Warranty

Your new Rifle Scope has a 10 year warranty that covers defects in materials and or workmanship.

The warranty does not cover instances of abuse, user error, improper use or should the scope be dismantled by anyone other than Falcon Optics or its representatives.

The warranty is limited to the original person that purchased the scope and is non transferable.

The original proof of purchase is required in the event of a warranty claim. No quarantee can be given if a dated proof of purchase can not be provided.

If you are concerned that the Rifle Scope has developed a fault or defect then either contact Falcon Optics directly or contact the Falcon Optics representative from which the scope was nurchased.

In cases where the Rifle Scope does need to be returned then details of where to return to will be given at the time of contact. Do not send the scope without contacting either Falcon Optics or its representative in advance and obtaining return authorisation.

The original proof of purchase must be sent with the scope being returned, along with full name, address and contact details. A letter with as much information on the fault as possible should also be included. The scope should be well packaged, pre-paid and fully insured against damage or loss.

After returning, the unit will be inspected then repaired or replaced at the option of the guarantor.

For more details on the returns procedure please consult the resources section of the Falcon Optics website - www.falconoptics.com or contact Falcon Optics directly. The returns procedure will differ if you are outside of the United Kingdom.

Please do not return any items to us without authorisation - unauthorised returns cannot be accepted.

The terms and conditions above set out the minimum that we will provide and are in addition to your statutory rights.

# **Export Notice**

This Rifle Scope is classified as a Strategic Military Item ML1d. It can't leave the United Kingdom without a valid export license.

Do not attempt to export this scope from the UK without written permission from the Export Control Organisation of BIS (Department for Business, Innovation and Skills).

If you are outside the UK then similar rules may apply, consult with your Export Control equivalent before taking/sending the scope abroad.

Model Code	n
Serial Number	7
Batch Number	<u>SERIES</u>
Tested in the United Kingdom by	FALCON OPTICAL SYSTEMS