



NVRS Titanium 2.5x50 Night Vision Riflescope

USER MANUAL

FF26013WL



Engineered for high intensity, fast-paced situations, from paintball games to tactical training simulations to home defense, Firefield products are designed for the next generation shooter and serious gun enthusiast. Our goal is to provide optimal solutions for demanding tactical, hunting and competitive training situations.

Firefield products are tested for durability in extreme terrain and extreme climates. Consisting of shooting accessories compatible with extreme shooting guns, AR-15s, tactical carbines, air guns, shotguns and pistols, the Firefield product line includes: riflescopes, red dot sights, reflex sights, laser sights, magnifiers, bore sights, night vision, digital night vision, flashlights, spotting scopes, rails and mounts.

Delivering high quality and exceptional durability to every intense moment, Firefield is the key to victory. Transform fear to power, panic to excitement and chaos to glory with Firefield units—Victory Justifies Everything®

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NVRS Titanium 2.5x50 Night Vision Riflescope

Designed for nighttime hunting and observation, the Firefield® NVRS Titanium 2.5x50 Night Vision Riflescope offers shooters a rock-solid optic capable of high quality imaging and brightness in the thick of night. Equipped with a built-in IR illuminator and a powerful 50mm lens, the device provides higher resolution and light gathering capabilities in complete darkness. It incorporates a long mount into its ergonomic design for comfortable shooting on the widest range of rifles, including bolt action styles. The precision windage and elevation adjustment and remote are additional features.

FEATURES:

- Extended weaver mount - designed for bolt action rifles
- High quality gen I image and resolution
- Durable titanium alloy housing
- 2.5x magnification
- Built-in, high power IR illuminator
- Variable reticle brightness adjustment
- Compact and lightweight
- Protective flip-up objective lens cover
- Remote control attachment

INCLUDED:

- Carrying case
- On/off remote
- User manual
- Cleaning cloth

DIAGRAM

- 1) Battery cover
- 2) Lens cap
- 3) On/off switch
- 4) Reticle brightness
- 5) Eyepiece ring
- 6) Weaver mount
- 7) Reticle adjustment knobs
- 8) Remote jack
- 9) Mounting screw



TECHNICAL SPECIFICATIONS

Generation	1
Resolution, lp/mm, not less than / typical value	36
Maginification	2.5x
Lens diameter, mm	50
Field of view, °	15
Field of view, m@100m	26.3
Min. focusing distance, m	7
Eye relief, mm	45
Diopter adjustment, dptr.	±4
Reticle type	Red duplex reticle
Windage & Elevation, 1 click,	20 mm/100m
Maximum recoil (G's)	800
Mounting bracket on weapon	Weaver/Picatinny
IR wavelength, nm	805
Equivalent IR power, mW	75
Range of detection, m/yd (object 1.7m high, illumination level 0.05 lux "1/4 moon")	150 / 165
Battery type	2x AA
Battery life (with IR), hour	20

Battery life (w/o IR), hour	50
Operating temp, °F	-22 to 104
Level of protection (acc. to IEC 60529)	IPX3
Dimensions, mm	255 x 80 x 85
Weight (w/o batteries), oz	31

WARNINGS AND PRECAUTIONS

Your NVRS night vision scope was designed to provide many years of reliable service. To ensure that you get the most enjoyment out of your NVRS, always obey the following Warnings and Precautions: Do not point the NVRS towards any light source greater than 1 lux (such as car headlights) if the unit has been activated or if the eyepiece shows a green glow. Turn the unit off and wait until the green glow dissipates before removing the lens cap.

Do not open the case of the NVRS or otherwise attempt to service this device.

Clean optical parts (lenses) with professional lens-cleaning supplies designed for use with multicoated optics.

BATTERY INSTALLATION

To install the two AA batteries, unscrew the battery compartment cover. Slide in the batteries according to +/- polarity indicated on the cover. Tighten the battery compartment cover (1).

OPERATION

Your NVRS scope operates using two AA batteries.

Make sure they have been installed according to instructions listed in the Battery Installation section.

- Move into a dark area before powering on the device. You can also try your scope in daylight with the lens cover on.
- Remove the lens cap (2) only when the scope is in the dark.
- Activate the device by turning the power switch (3) down to the first click (ON position).

- When additional illumination is needed, activate the IR illuminator by turning the powerswitch (3) until second click (IR position).
- To illuminate the reticle, turn the switch (4) clockwise and adjust the reticle brightness by rotating the switch clockwise or counterclockwise.
- To focus the scope, select an object approximately 100 yds. away and rotate the eyepiece lens (5) until the image is clear.
- The green LED indicates that the scope is on. The “ON” LED turns red when the battery starts discharging.
- The night vision riflescope NVRS can be attached on any rifle equipped with a bar for side or top mounting by use of a Weaver mount (6). The scope is produced with different mount modifications.
- The unauthorized replacement or assembly of the mounts is not allowed.
- After mounting the riflescope, it will be necessary to zero the scope by firing at a target and making the necessary adjustments using the reticle-adjusting knobs (7).
- You may power up the scope and the IR illuminator via the remote control accessory by inserting the connector of the remote into the jack (8).

ATTENTION

Your NVRS can be used in extremely cold temperatures. However, when the unit is brought back into a warm environment, you must wait approximately 5 HOURS before using the unit. This is due to condensation that may accumulate on the electronic circuitry.

ZEROING OF THE RIFLESCOPE

It is recommended to zero your riflescope at operating temperature according to the following sequence:

- Place your rifle with a riflescope on a support;
- Make sure there are no bright light sources in your scope's field of view;
- Put the target at a zeroing distance, for instance 50m. The illumination of the target area should not be greater than 1 lux;
- Remove flip-up cap from the objective lens;
- Activate the device by turning the power switch (3) to the "ON" position;
- Aim the foresight of the rifle to a center of the target;
- Rotate the eyepiece ring (5) until the target image is clear;
- Adjust the reticle brightness by rotating the switch (4);
- If the centre of the target does not coincide with the aiming dot (the centre of the red reticle), remove the caps from reticle-adjusting knobs (7) and rotate the knobs R and UP until the centre of the target and the centre of the reticle coincide;
- Aim at the aiming dot and fire 3-4 control shots;
- Determine the close grouping of shots and the position of the middle hit point;
- If the deviation of the middle hit point is more than the allowable value, rotate the reticle-adjusting knobs (UP - vertical adjustment, R - horizontal adjustment) until the middle hit point coincides with the aiming dot. One click of the adjusting knob will cause a 20mm shift at a

distance of 100m;

- Check the accuracy of adjustment by shooting.
- Your riflescope is zeroed at a chosen distance.

ATTENTION

The recommended energy for Generation I Riflescopes NVRS should not exceed 3700 Joules. The Generation I riflescopes tolerate the overload shock corresponding to the caliber of no more than 7.62/.308. The guarantee is null and void if cartridges with calibers of more than 7.62/.308 or self-made cartridges have been used.

MAINTENANCE

To avoid failures during operation of your riflescope and to provide the detection and elimination of reasons causing the premature deterioration of assemblies and parts in time, it is necessary to carry out technical inspection and technical maintenance of the riflescope.

A) TECHNICAL INSPECTION

It is necessary to take the following steps during technical inspection:

- Carry out the external examination of the riflescope (external surfaces should not have splits, dents and signs of corrosion);
- Check if the riflescope properly and securely mounted on the rifle (clearance is inadmissible);
- Check the condition of optical surfaces: objective and eyepiece lenses should not have splits, fat stains, dirt, and various coatings on them;

- Check the condition of power supply elements and contacts (contacts should not be oxidized or have salt coatings on);
- Check the work of operation switches and of a reticle brightness switch;

Having detected some malfunction while using the riflescope, it is necessary to check the following:

- Riflescope's mounting on a rifle;
- The absence of dust, dirt, hoar-frost, water, etc on the objective lens;
- If the batteries are discharged;
- If the riflescope is on.

Pay particular attention to ensure that batteries have been installed.

B) CURRENT MAINTENANCE

Carry out the current maintenance of the riflescope at least once in a half of a year. Current maintenance requires the following steps to be taken:

- Remove dust, dirt and moisture from the riflescope;
- Clean the external surfaces of metal parts;
- Clean the optics of the scope using a light coating of lens cleaning solution on a soft cotton cloth.

ATTENTION: DISMANTLEMENT OF THE RIFLESCOPE IS PROHIBITED!

USING THE PHOTO ADAPTER

You can take night pictures with the help of the riflescope using digital cameras. For these purposes you require a night vision photo adapter for digital cameras. Install the reducer into a riflescope's mount. Setup the digital camera is done according to the photo adapter operating manual.

STORAGE

Always store the NVRS in its case in a dry, well-ventilated area away from heating/air conditioning vents, or heating devices. Temperature should not go below +50F. Humidity should not exceed 70%. Remove the batteries if the device is to be stored for longer than 2 months.

TROUBLESHOOTING

The riflescope will not turn on...

Check that the battery is installed properly. Install the battery according to the (+) and (-) polarity, ensuring that the markings on the battery and battery compartment correspond with one another. Check the battery contact to ensure it is clean and free of corrosion; if necessary, clean the contact. Make sure that the external contact lug is not broken.

If necessary, replace the battery as it may be depleted. Also, be sure that the power is in the "ON" position when trying to turn on the scope.

Distinct black dots appear on the screen...

The dots are minor cosmetic blemishes resulting from tube production processes and do not interfere with the reliability or performance of the riflescope.

The image flickers, flashes or “snows”...

The scope may flicker or flash when used in a bright environment; to correct this, place the cap over the objective lens and enter a dark environment. The scope will restore itself to a natural functioning state in several minutes or hours, depending on how long the scope had been exposed to the light. The scope may flicker for the first several seconds of use, even when in a dark environment, before the scope corrects itself and functions properly.

The scope may “snow” for several minutes after being exposed to a bright light source (daylight, a car’s headlights, fire, etc.) even if being operated in complete darkness.

The red reticle is blurred and can not be focused with the eyepiece...

The diopter adjustment range of the eyepiece is not powerful enough for your eye; if you use glasses stronger than +/- 5 diopters, use your glasses while looking through the eyepiece.

The image will not focus but the red reticle is clearly seen...

Make sure the lenses are not foggy or dusty; if so, carefully clean the external surfaces of lenses with a soft cotton fabric. Replace the battery if the total battery charge is less than 2.2V.

When the unit is brought into a warm environment from a cold one, condensation may appear on

the internal lenses; you must wait two hours before using the unit.

If this does not correct the problem, then most likely the object you are viewing is too close. The objective of your riflescope does not have distance focusing, but it can be adjusted so that the objects situated closer than 30 meters can be seen clearly.

The scope or the IR does not turn off via the “ON/OFF” switch...

If the scope was activated by remote control, then turn the scope and IR off by again using the remote control.

The reticle is being displaced while shooting...

Make sure that the scope is firmly attached to the mount and be sure that the same caliber and type of bullets are being used as when the scope was initially sighted in. If the scope was sighted in during the summer, and is now being used in the winter, or vice versa, a small displacement of the aiming point is possible.

Visibility decreases or disappears...

Bright light sources, such as headlights, may cause visibility to decrease or disappear and the image to flicker. Turn the power off and turn the riflescope away from the light source; visibility will restore itself in several minutes.

FIREFIELD WARRANTY

Please visit www.fire-field.com for warranty details and information.

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