





**IMPULSE**  
1x30 Red Dot Sight  
**USER MANUAL**



[www.fire-field.com](http://www.fire-field.com)

FF26020



## About Firefield

Here at Firefield®, we promote VICTORY in everything we do through courage, self-sacrifice and moral excellence. Built for high-intensity, fast-paced situations from tactical training simulations and competitive shooting to home defense and modern hunting, Firefield® products are designed for the next-generation shooter and serious gun enthusiast. We strive to provide real people with the tools they need to overcome the difficult challenges of tactical, hunting and training situations.

Our products are tested for durability in extreme terrain and climate conditions. Whether you need accessories for combat simulations, modern rifles, shotguns or pistols, Firefield® products are reliable and innovatively designed to meet your demanding needs.

***Firefield-Victory Justifies Everything!***



## Firefield Impluse 1x30 Red Dot Sight

The Firefield® Impluse 1x30 Red Dot Sight is a versatile weapon sight, designed for accurate short-range shooting. Featuring an illuminated 3MOA red dot reticle, the Impluse 1x30 has up to five brightness settings. The variable brightness settings allow for optimal shooting in low and bright light scenarios without the inherent problems of fiber optics or auto-adjusting systems. This sight has an integrated red laser sight for quick target acquisition, making aiming easier and faster.

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## TECHNICAL SPECIFICATIONS

Reticle type	3 moa dot
Reticle color	red
Magnification (x)	1
Reticle brightness settings	Off, 1-6
Objective lens diameter (mm)	30
MOA adjustment (one click)	1
Windage maximum adjustment range (MOA)	160
Elevation maximum adjustment range (MOA)	160
Battery type	1x CR123A
Battery life (hours)	700 – 4,300
IP Standard (water rating)	IP55 – water resistant
Body material	Aluminum - 6061
Lens coatings	AR red

Laser Adjustment value (one click =)	Continuous
Mount type	Picatinny
Laser wavelength (nm)	632-650
Laser type	Red, Class IIIA
Mount type	weaver / picatinny
Operating temperature (°F)	32 to 122
Dimensions (in)	3.7 x 2.4 x 3.1

### Features:

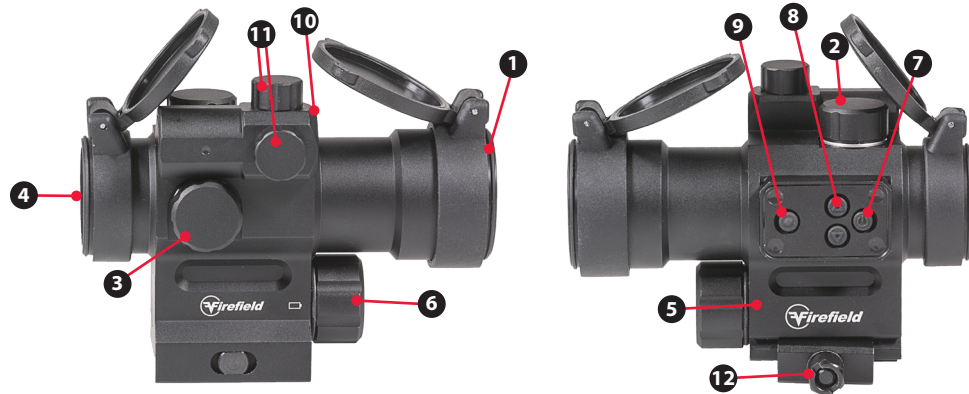
- 3 MOA red dot
- Digital switch controls
- One CR123A battery
- Integrated red laser sight
- Shockproof
- Parallax corrected

### Accessories:

- Flip up lens caps
- CR123A Battery

## DIAGRAM

1. Objective lens
2. Elevation adjustment
3. Windage adjustment
4. Eyepiece
5. Battery compartment
6. Battery cap
7. On/off Button
8. Brightness controls
9. Laser on/off Button
10. Laser Aperture
11. Laser Elevation/Windage adjustments
12. Mounting nut





## INSTALLING THE BATTERY

The Firefield Impulse 1x30 Red Dot Sight is powered by a single CR123A battery. Should the reticle illumination grow dim or fail to illuminate, the battery needs to be replaced.

To install a new battery:

1. Unscrew the battery cap (6) counterclockwise.
2. Insert the new battery into the battery compartment (5) with the negative (-) side inserted first.
3. Screw the battery cap on clockwise until firmly secure. Do not over tighten.



## ON/OFF ACTIVATION

**To turn the unit on:**

1. Press and release the on/off control (7).

**To turn the unit off:**

1. Press and hold the on/off control for 3 seconds.

## BRIGHTNESS CONTROLS

The Firefield Impulse 1x30 Red Dot Sight offers 6 brightness settings. Settings 1 and 2 are best for low light, indoor environments while 3-6 are best for outdoor environments.

To adjust the brightness:

1. Press the appropriate up or down arrow (8) to adjust the brightness of the dot.
2. To increase brightness press the up arrow.
3. To decrease brightness press the down arrow

## MOUNTING

The Firefield Impulse 1x30 Red Dot Sight is designed to mount to picatinny rails. For safety it is best to have at least three to four inches of eye relief.

**To mount:**

1. Loosen the mounting hex nut (12) on the mount. Attach the sight to the firearm's rail with the objective lens facing toward the muzzle and the eyepiece toward the user.
2. Make sure the recoil bolt is positioned in the groove of the rail and the unit is fully seated on the rail.
3. Tighten the hex nut to 35 to 45 in/lbs of torque using the hex wrench. Do not overtighten.

## OPERATING WINDAGE AND ELEVATION ADJUSTMENTS

The Firefield Impulse 1x30 Red Dot Sight has built-in windage and elevation adjustments (2, 3) with audible clicks. The click value is 1 MOA, so each click moves the point of impact 1" at 100 yards, 1/2" at 50 yards, and 1/4" at 25 yards. In order to make windage and elevation adjustments:

1. Unscrew the dial covers.
2. Use a coin or flathead screwdriver to make adjustments or "clicks"
3. Turn the adjustments in the appropriate direction needed to change the point-of-impact as indicated by the "UP" and "R" (left) arrows marked on the adjustments.
4. For elevation adjustment, turn the adjustment counter-clockwise to adjust the bullet's point of impact up. Turn the adjustment clockwise to adjust the bullet's point of impact down. For windage adjustments, turn the adjustment counter-clockwise to adjust the bullet's point of impact right. Turn the adjustment clockwise to adjust the bullet's point of impact left.

## BORESIGHTING AND SIGHTING IN

Boresighting and test firing should be performed safely on a firing range. Laser boresights are a quick and accurate method for sighting in. Below is listed the traditional method of boresighting and works best when the unit is mounted on a rest

1. When mounting the sight on a bolt action rifle, remove the bolt; or when mounting to a semi-automatic rifle, disassemble the rifle until there is a straight line of sight through the bore.
2. Use a target at least twenty yards to fifty yards away when sighting in the sight. Look through the bore of the weapon and locate the bull's-eye of the target.
3. Sight in the target through the bore and then make windage and elevation adjustments (see "Operating Windage and Elevation Adjustments" for instructions) to the red dot sight until the reticle is centered on the bullseye.

To verify the sight is accurately sighted in, always fire a three-shot test group at 50 or 100 yards preferably using the same ammo manufacturer, grain, and lot number.

4. After firing a group use the center of this grouping and make the necessary amount of adjustments to the elevation and windage adjustments to move your firearm's grouping to the center of the target.
5. Again fire a three-shot test group, and use the center of the group to determine final adjustments.

## OPERATING THE INTEGRATED LASER

The built-in 5mW red laser is used for target acquisition in close range, rapid changing environments. The laser has built-in windage and elevation adjustments (I I) that allow the laser to be accurately sighted in with your rifle. To operate the laser:

1. Locate the red laser on/off switch (9).
2. Push the button to turn the laser on.
3. Push the button again to turn the laser off.

### To zero the laser:

1. Unscrew the dial covers.
2. Use a coin or flathead screwdriver to make adjustments.

Note that the adjustments do not have clicks, but are a continuous adjustment system. Zero the laser to your reticle at the same zero distance, or zero the laser at a secondary zero distance.

**Warning:** NEVER point the laser designator directly at, or into, someone's eye. This may cause damage to the eye, or blindness. Avoid looking directly into the laser. Avoid shining the laser into mirrors or other reflective surfaces.

Note: due to visual restrictions of 5mW red lasers at greater distances in daylight, the most effective application is for close range/ CQB scenarios. Shooters should evaluate the range targets are acquired most frequently and sight the laser to their firearm's point of impact at that range.

## MAINTENANCE

Proper maintenance of the Firefield Impulse 1x30 Red Dot Sight is recommended to ensure longevity. It is recommended that when the sight becomes dirty that it is wiped down with a dry or slightly damp cloth. Blow dirt and debris off all optics and then clean lenses with a lens cleaning cloth. To remove oils or dried water spots, apply a small amount of denatured alcohol to a lens cloth or cotton swab. Clean the surface of the lens and let dry. Finally use your breath to clean the lens once more. No further maintenance is required. Do not attempt to disassemble any components of the scope.

## STORAGE

Make sure that your Firefield Impulse 1x30 Red Dot Sight is securely attached to your rifle before storing, and be sure that the reticle illumination is turned off. Cover with the included lens covers. Remove the batteries if the unit will be stored for an extended period of time.

## WARNING

Before handling the Firefield Impulse 1x30 Red Dot Sight read and understand the contents of your firearm's manual, and the Firefield manual. Follow all standard safety precautions and procedures during firearm operation, even when the reflex sight is not in use.

- Avoid hitting or dropping the unit
- ALWAYS check that the chamber of your weapon is clear before mounting or dismounting the red dot sight.
- The reticle illumination should be tested during periods of non-use to make sure it is still operating properly. Failure to follow standard firearm safety precautions and procedures, as well as the above warnings, is dangerous and may result in serious injury, damage to property, or death.

### WARNING

Do NOT disassemble the red dot sight for any reason, as this will void the warranty and could be hazardous. Any internal work should be handled by the manufacturer. CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure



## TROUBLESHOOTING

Proper authorization is required before shipping any product back to Firefield. Failure to obtain authorization could result in your product being returned to the wrong address, lost, or damaged. Firefield is not liable for products returned without authorization.

### If the sight does not hold zero:

1. Verify the sight is mounted securely to the rifle. If the sight can be shifted in any direction, re-tighten the mounting hex nut according to the mounting instructions but do not over tighten. The sight will need to be re-zeroed afterwards.
2. Be sure to use factory-loaded ammunition of the same bullet type, weight, and, preferably lot number when sighting in.

### The reticle does not illuminate:

1. Check that the battery is in working order and that the polarity of the battery is correct.
2. Check that there is no residue, film, or corrosion on the battery contacts that may be preventing the reticle from illuminating.
3. Make sure the unit is not set on a night vision mode.

### The reticle is blurry and not in focus:

1. Decrease the brightness level of the reticle. The halo or fuzzy appearance is caused by excess illumination than is required for the current environment the sight is being used in.



## TROUBLESHOOTING

2. Make sure the eyepiece lens is clean and does not have any film, fingerprints, or debris covering the surface. Blow off any debris or dirt covering the lens. Use a lens cloth or q-tip dipped in alcohol to remove any film or fingerprints.

3. If you are testing the product at a close range, 5 yards or less, to verify its on/off operation the eye will accommodate and focus either on the sight's reticle or the target you are observing not both. Test the product beyond 5 yards and focus your eye on the target, then the reticle and target should be in focus.

### **The reticle illumination turns off while firing:**

1. Tighten the battery cap with a coin or flathead screw driver so the cap is fully seated.

## FIREFIELD WARRANTY

Please visit [www.fire-field.com](http://www.fire-field.com) for warranty details and information.

## NOTES

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