

Ask us a question...

[Sightmark](#) > [Product & Technical Support](#) > [Sightmark Online Manuals](#)

Menu



Articles in this section



Wolverine FSR/CSR Red Dot (SM26020/SM26021)

Follow



Table of Contents

- [Description](#)
- [Features and Accessories](#)
- [Technical Specifications](#)
- [Unit Diagram](#)
- [Battery Install](#)
- [On/Off Activation and Brightness Controls](#)
- [Mount Heights and Mounting](#)
- [Windage/Elevation Adjustments](#)
- [Sight-In](#)
- [Maintenance, Storage and Warnings](#)
- [Troubleshooting Tips](#)



Hi. Need any help?

Description

WOLVERINE

FSR Wolverine

Designed for quick-target acquisition in short-range engagements, the Wolverine FSR red dot sight delivers unlimited eye relief on an AR platform. Compact and light, yet exceptionally durable with a battery life far more advanced than comparable models, this red dot sight is built for a lifetime of use.

CSR Wolverine

Designed for quick-target acquisition on shotguns and short-barreled rifles, the Wolverine CSR red dot sight delivers unlimited eye relief and first-class battery life using a single AA battery. Its variable brightness and night vision modes enable the ability to co-witness with a night vision sight.

Features and Accessories

FEATURES
Powered by a single AA battery
Very low power consumption
Digital switch brightness controls
Scratch resistant, anti-reflective lens coating
28mm objective lens for quicker acquisition*
Compact and lightweight design**
Protected adjustment caps
Rubber armored, single piece 6061-T6 aluminum housing
Adjustable mount height
IP67 waterproof rating - submergible to 1m/3ft

*FSR (SM26020)

** CSR (SM26021)

INCLUDED:

- Rubber lens cover
- Picatinny mount
- Riser for absolute co-witness

Technical Specifications

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	FSR (SM26020)	CSR (SM26021)
Reticle type	2 MOA	4 MOA
Reticle color	Red	Red
Reticle brightness settings	Off, NV1, NV2, 3-10	Off, NV1, NV2, 3-10
Magnification (x)	1	1
Objective lens diameter (mm)	28	23
Eye relief (mm)	Unlimited	Unlimited
Windage maximum adjustment range (MOA)	120	120
Elevation maximum adjustment range (MOA)	120	120
MOA adjustment (one click)	1/2	1
Battery type	1x AA	1x AA
Battery life (hours)	900-1,000,000	900 - 1,000,000
IP Standard (water rating)	IP67 - Submersible to 1m	IP67 - Submersible to 1m
Body material	Aluminum - 6061 / rubber	Aluminum - 6061 / rubber
Lens coatings	Fully Multicoated AR red	Fully Multicoated AR red
Mount type	Picatinny	Picatinny
Operating temperature (°F)	-22 to 122	-22 to 122
Length (in/mm)	4.4 / 113.5	3.4 / 87.5
Width (in/mm)	2.9 / 75.1	2.8 / 71.6
Height (in/mm)	2.6 / 65.3	2.4 / 61.1
Weight (oz)	12.3	10.3

Unit Diagram

DIAGRAM

1. Objective lens
2. Elevation adjustment
3. Windage adjustment

4. Eyepiece
5. Battery compartment
6. Battery cap

7. Brightness controls
8. Mounting hex nut
9. Co-witness riser



Battery Install

INSTALLING THE BATTERY

The Sightmark Wolverine FSR and CSR are powered by a single AA 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 with a coin or flathead screwdriver.
2. Insert the new battery into the battery compartment (5) with the positive (+) side inserted first.
3. Screw the battery cap on clockwise until firmly secure. Do not over tighten.



On/Off Activation and Brightness Controls

ON/OFF ACTIVATION

To turn the unit on:

1. Press and release the up arrow on the brightness controls.

To turn the unit off:

1. Press and hold the up arrow for five seconds.
Note: The unit will automatically shut off after 12 hours to save battery life.

BRIGHTNESS CONTROLS

The Wolverine FSR and CSR offer 10 brightness settings, 8 daytime and 2 night vision modes. Settings 1 and 2 can be used with generation 1, 2, and 3 night vision devices. Settings 3 and 4 are best for low light, indoor environments while 5 - 10 are best for outdoor environments.

To adjust the brightness:

1. Press the appropriate up or down arrow to adjust the brightness of the dot.
2. To increase brightness press the up arrow.
3. To decrease brightness press the down arrow.
Note: The last brightness setting used prior to deactivation will be the same setting next time the unit is activated.

Mount Heights and Mounting

MOUNT HEIGHTS

The Sightmark Wolverine FSR and CSR include a picatinny mount and riser (9) for absolute co-witness. If mounting on a bolt action hunting rifle or shotgun, a low profile mount height is desired and it is recommended the co-witness riser not be used. If mounting on flat top AR-15 rifles, it is recommended the riser be installed for an absolute co-witness with iron sights.

To remove the base:

1. Use the included hex key to loosen and unscrew the four screws attaching the mount to the Wolverine.
2. Select the desired mounting setup. If the low profile mount height is desired, the four smaller screws must be used to attach the base to the Wolverine. If the co-witness mount height is desired, the riser spacer is installed between the mount and the body of the Wolverine. Also, the four longer screws must be used to attach the base and riser to the Wolverine.
3. For a semi-permanent fixture, a small amount of blue Loctite® may be applied to the threading of the four screws. Tighten and secure the four screws by applying 20 inch pounds of torque. Do not overtighten.



MOUNTING

The Wolverine FSR and CSR are 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 (8) on the mount. Attach the Wolverine 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 included hex wrench. Do not overtighten.

Windage/Elevation Adjustments

OPERATING THE WINDAGE AND ELEVATION ADJUSTMENTS

The Sightmark Wolverine FSR and CRS have built-in windage and elevation adjustments (2, 3) with audible clicks. The Wolverine FSR has ½ MOA clicks meaning each click moves the point of impact ½" at 100 yards. The Wolverine CSR has MOA clicks so each click moves the point of impact 1" at 100 yards, ½" at 50 yards, and ¼" 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.

Sight-In

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 until the reticle is centered on the bull's-eye.

To verify the red dot 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 to confirm the adjustments. Use the center of the new group to determine final adjustments.

Maintenance, Storage and Warnings

MAINTENANCE

Proper maintenance of the Sightmark Wolverine 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 sight.

STORAGE

Make sure that your Sightmark Wolverine 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 Sightmark Wolverine red dot sight read and understand the contents of your firearm's manual, and the Sightmark manual. Follow all standard safety precautions and procedures during firearm operation, even when the red dot 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 reflex 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.

Troubleshooting Tips

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

If the Wolverine 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.
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.

If you have any additional questions or concerns about this topic or any others about Sightmark products, please feel free to [Contact us](#).



Was this article helpful? Was this article helpful?

Yes

No

[Return to top](#) ^

Recently viewed articles

[What is Sightmark's Warranty & Returns Policy?](#)

Related articles

[Sightmark Core Shot A-Spec FMS Reflex Sight/ Core Shot A-Spec LQD Reflex Sight Manual \(SM26017 & SM26018\)](#)

[Laser Boresight Battery Type - Quick Reference Guide](#)

[Ultra Shot R-Spec Dual Shot Reflex Sight Manual \(SM26033R\)](#)

[Sightmark MTS Element 1x30 Red Dot Sight \(SM26040\)](#)

[Sightmark Mini Shot Red Dot Footprints - What pattern will fit my firearm?](#)

Copyright © 2025. Sightmark. All Rights Reserved.

