

# SIGHT MARK<sup>®</sup>

## USER MANUAL



**VOLTA SOLAR  
REFLEX SIGHT**

**SM26030**

# ABOUT SIGHTMARK®

While Sightmark's MAKE YOUR MARK tagline perfectly illustrates our mission to provide uncompromising accuracy in virtually any environment, to us, those three words mean quite a bit more.

MAKE YOUR MARK represents our commitment; first, to those who serve; second, to our Constitutional right to bear arms, the right ensuring all others remain intact; and finally, every single professional and recreational shooting enthusiast embracing and sharing our Pro-2nd Amendment lifestyle.

MAKE YOUR MARK also symbolizes our desire to build more than a brand people know they can trust. It represents our higher calling to build an honorable, unapologetic legacy, truly appreciative of the fabric of a free society to pass on to future generations. Only accomplishing the latter truly embodies the gravity of what MAKE YOUR MARK means to us.

In the spirit of gratitude for those who preserve freedom as we know it to be, MAKE YOUR MARK is a call to action. One we take seriously when it comes to developing products worthy of our brand... and our lifetime warranty. The same brand countless professionals rely upon for performance in the best... and most assuredly, worst of times.



## VOLTA SOLAR REFLEX SIGHT

The Volta solar red dot is truly the best of both worlds, combining solar and battery power to provide uninterrupted operation. The Volta is powered by 2x AAA batteries and features solar cells directly on top of the optic, giving users the option to choose what works best for their situation. Volta red dots boast the Eclipse Light Management System, a revolutionary technology for red dots which automatically adjusts the red dot reticle's brightness based on the shooter's environment. The heavy-duty Volta's covered design is tougher than open-style red dots and a scratch-resistant, anti-reflective lens coating adds even more durability. Other popular features include an adjustable-height mount, digital switch brightness controls, single side access to both windage and elevation adjustments, unlimited eye relief and shockproof design. All Volta red dots come standard with a protective rubber cover, low picatinny mount, absolute cowitness mount and Sightmark's Lifetime Warranty.

### **FEATURES:**

- Solar cells allow for use with no batteries
- 2x AAA battery backup
- Eclipse Light Management System
- Adjustable mount height
- Unlimited eye relief
- Digital switch brightness controls
- Covered reflex design
- Wide range operating temperature, -22 to 122 °F

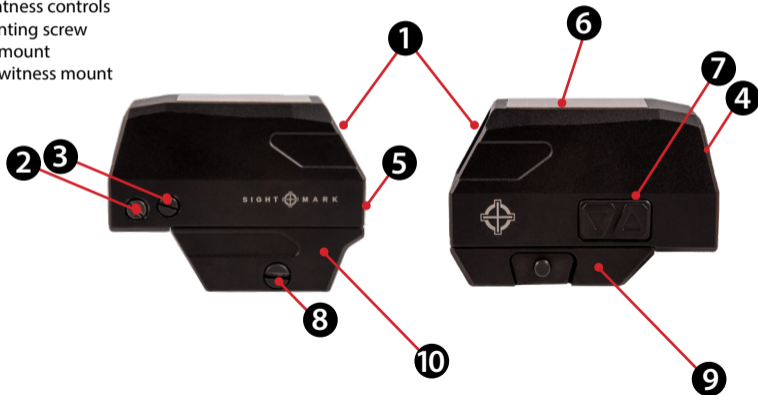
### **INCLUDED:**

- Rubber cover
- Low Picatinny mount
- Absolute co-witness Mount

Technical Specifications:		SM26030	
Reticle type	2 MOA Dot	Fog proof (yes/no)	yes
Reticle color	Red	Lens coatings	AR red
Illuminated reticle (yes/no)	yes	Mount type	picatinny
Brightness settings	1-10	Battery type	2x AAA
Magnification (x)	1	Battery life (hours)	800 - 400,000
Objective aperture (mm)	28	Battery voltage (V)	1.5
Window material	glass	Operating temperature (oF)	-22 to 122
Eye relief (mm)	unlimited	Length (in/mm)	3.23/82
Elevation adjustment (MOA)	120	Width (in/mm)	1.37/35
Windage adjustment (MOA)	160	Height (in/mm)	1.98/50
MOA adjustment (one click)	1	Weight (oz)	7.3
Finish/color	Matte black		
Body material	Aluminum 6061-T6 / plastic/ rubber		
Maximum recoil (G's)	800		
IP rating (waterproof)	IP67		
Shockproof (yes/no)	Test		

# DIAGRAM

1. Objective lens
2. Elevation adjustment
3. Windage adjustment
4. Eyepiece
5. Battery Door
6. Solar panel
7. Brightness controls
8. Mounting screw
9. Low mount
10. Co-witness mount



## INSTALLING THE BATTERY

The Sightmark Volta Solar Reflex Sight Sight is powered by two AAA batteries. 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 screw (6) counterclockwise.
2. Insert the new batteries into the battery compartment (5) according to the polarity indications.
3. Screw the battery screw on clockwise until firmly secure. Do not over tighten.

## ON/OFF ACTIVATION

### **To turn the unit on:**

1. Press and release the up arrow on the brightness controls (7).

### **To switch to solar mode:**

1. Press and hold the up arrow for five seconds.
2. Press and hold the up arrow for five seconds to switch back to battery mode

## BRIGHTNESS CONTROLS

The Volta Solar Reflex Sight offers 11 brightness settings. In solar mode Each Brightness setting will auto adjust depending on the brightness of the environment.

(Auto-brightness does not work in battery mode)

### To adjust the brightness in battery mode:

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.

## MOUNT HEIGHTS

The Sightmark Volta Solar Reflex Sight includes a Low-Profile Mount (9) and a cowitness mount (10) for absolute co-witness. If mounting on a bolt action hunting rifle or shotgun, the low-profile mount would be preferable. If mounting on flat top AR-15 rifles, it is recommended the co-witness mount 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 Volta Solar Reflex Sight.
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 Volta Solar Reflex Sight. If the co-witness mount height is desired, the co-witness mount should be installed.
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.



AR Riser/Cowitness  
Mount

Low Profile  
Mount

## MOUNTING

Volta Solar Reflex 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 screw (8) on the mount. Attach the Volta Solar Reflex 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 screw to 35 to 45 in/lbs of torque. Do not overtighten.

## OPERATING THE WINDAGE AND ELEVATION ADJUSTMENTS

The Sightmark Volta Solar Reflex Sight has built- in windage and elevation adjustments (2, 3) with audible clicks. The Volta Solar Reflex Sight has 1 MOA clicks meaning each click moves the point of impact 1" at 100 yards. In order to make windage and elevation adjustments:

1. Unscrew the dial covers.
2. Use the reverse side of the cap as a hand adjustment tool 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" marked on the adjustments.
4. For elevation adjustment, turn the adjustment clockwise to adjust the bullet's point of impact up. Turn the adjustment counter-clockwise to adjust the bullet's point of impact down. For windage adjustments, turn the adjustment clockwise to adjust the bullet's point of impact right. Turn the adjustment counter-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 until the reticle is centered on the bull's-eye.

To verify the riflescope 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

Proper maintenance of the Sightmark Volta Solar Reflex 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 Sightmark Volta Solar Reflex Sight 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 Volta Solar Reflex Sight 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 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 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

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 Volta Solar Reflex 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.

### **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

## TROUBLESHOOTING (CONTINUED)

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.

## SIGHTMARK WARRANTY

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

## ADDITIONAL LANGUAGES

Please visit [www.sightmark.com](http://www.sightmark.com) for additional languages of this manual.

## NOTES

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[www.sightmark.com](http://www.sightmark.com)