

SIGHT MARK[®]

USER MANUAL



Solitude Spotting Scope

SM11030K
SM11031K
SM11032K

ABOUT SIGHTMARK®

Sightmark offers a wide range of products that include red dot scopes, reflex sights, rangefinders, riflescopes, laser sights, night vision, binoculars and award-winning flashlights and boresights. Sightmark products are inspired by military and law enforcement applications. All products are designed to be the most effective weapon accessories possible.

MAKE YOUR MARK



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Solitude SE Spotting Scopes

The Solitude SE Spotting Scope Kit is ideal for a wide range of applications including target shooting, long-distance game tracking, police surveillance, or sniper spotting. Built with quality materials in a variety of models, Sightmark spotting scopes are designed with comfortable eye relief for long periods of use.

All spotting scopes come equipped with a versatile tripod and carry case that keep the optics protected in the field. Designed with a straight eye piece and rotatable mount ring, Sightmark spotting scopes feature an advanced aluminum prism coating for optimal light transmission.

The Solitude spotting scopes are developed with a porro prism optical system to provide the ability to have a wide field of view and better depth of field. The straight eyepiece design allows users to comfortably spot for long periods of time, in many conditions.

Sightmark spotting scopes boast a rugged, lightweight, rubber-armored body that are nitrogen-filled and O-ring sealed, making them waterproof and fogproof. Adjustable eye cups provide a comfortable, custom fit for all users whether they are wearing glasses or not. Featuring a dustproof construction, Sightmark spotting scopes are exceptionally reliable for a lifetime of use.

TECHNICAL SPECIFICATIONS	
Model	Solitude 11-33x50SE Spotting Scope Kit
Magnification (x)	11-33
Objective Lens Diameter (mm)	50
Eye Relief (in/mm)	.59 - .47/ 15 - 13
Exit Pupil Diameter (mm)	4.5 - 1.5
Field of View (Ft/1,000yds)	157.2 - 77.1
Field of View (degrees))	3 - 1.47
Minimum focus distance (ft/m)	7.5 / 2.3
Dimensions, in	11.2 x3.2 x4.7

INCLUDED ACCESSORIES:

- Carry case
- Table top tripod
- Built-in objective lens cap
- Eyepiece cover

INCLUDED ACCESSORIES:

- Fully multi-coated optics
- 100% reflective advanced aluminum prism coatings
- Porro prism optical system
- Straight eyepiece design
- Compact design
- Lightweight
- Twist-up eyecup
- Built-in tripod adapter
- Waterproof and fogproof

DIAGRAM

1. Eyepiece
2. Twist-up eyecup
3. Magnification adjustment
4. Alignment sight
5. Focus dial
6. Objective lens
7. Lens cap
8. Tripod mount



TECHNICAL SPECIFICATIONS		
Model	Solitude 20-60x60SE Spotting Scope Kit	Solitude 20-60x80SE Spotting Scope Kit
Magnification (x)	20-60	20-60
Objective lens diameter (mm)	60	80
Eye relief (in/mm)	.6 - .55 / 15.3 - 14	.63 - .55 / 16 - 14
Exit pupil diameter (mm)	3 - 1	4 - 1.3
Field of view (ft/1,000yds)	107.4 - 52.5	94.3 - 47.1
Field of view (degrees)	2.05 - 1	1.8 - .9
Minimum focus distance (ft/m)	14 / 4.2	20/ 6
Dimensions, in	13.9x3.2x4.7	17.7x4x4.7
Weight (oz)	36.6	50.5

INCLUDED ACCESSORIES:

- Carry case
- Table top tripod*
- Adjustable table top tripod**
- Built-in sunshade
- Built-in objective lens cap
- Eyepiece cover

*SM11031K

**SM11032K

FEATURES:

- Fully multi-coated optics
- 100% reflective advanced aluminum prism coatings
- Porro prism optical system
- Straight eyepiece design
- Twist-up eyecup
- Built-in sunshade
- Rotatable tripod ring
- Waterproof and fogproof



DIAGRAM

1. Eyepiece
2. Twist-up eyecup
3. Magnification adjustment
4. Alignment sight
5. Focus dial
6. Tripod mount collar
7. Built-in sunshade
8. Objective lens
9. Lens cap
10. Tripod mount

VARIABLE POWER ADJUSTMENT

All Solitude Spotting Scopes are equipped with an eyepiece cover. First remove the eyepiece cover before operating the spotting scope. Each spotting scope model is equipped with variable magnification. The low magnification of the Solitude Spotting scopes provides a wide field of view making it easy to spot or track targets. The high magnification makes it possible to observe details on distant targets. To change magnification:

1. Turn the magnification adjustment ring (3) to the desired level of power.
2. To increase magnification, turn the adjustment ring in a clockwise direction.
3. To decrease magnification, turn the adjustment ring in a counter-clockwise direction



FOCUS ADJUSTMENT

The focus dial allows the Solitude Spotting scopes to deliver a clear, sharp image. Anytime magnification is changed, generally the image must be refocused. To focus the image:

1. Turn the focus dial (5) until the image is focused. Make sure the image is always well focused as this will prevent eye fatigue.



ADJUSTING THE EYECUP

Prior to using the Solitude spotting scopes, it is best to adjust the twist up eyecup to your preference. The twist-up eyecups allow you to properly observe the full field of view of the image without any vignette effect or darkened edges. Even if you wear eyeglasses you can use the Solitude spotting scopes effectively. If you wear glasses, keep the eyecup in the down position. Twist the eyecup to the up position if you do not wear glasses. To twist the eye cups:

1. Rotate the eye cup (2) counter-clockwise to raise the eyecup.
2. Rotate the eye cup clockwise to lower the eyecup.



USING THE ALIGNMENT SIGHT

All Solitude spotting scopes are equipped with a built-in alignment sight. The built-in alignment sight allows the spotting scope's field of view to be quickly aligned with the target. This prevents wasting time trying to find your target while looking through the high magnification of the spotting scope. It is similar to using iron sight on a rifle or pistol. To use the alignment sight:

1. First, locate the alignment sight (4) on the top of the unit.
2. Aim the spotting scope at the target intended to be viewed. Align the target between the "V" of the alignment sight.
3. Next, view the target through the spotting scope at the lowest magnification. The target should be within the spotting scope's field of view.
4. Finally, make any necessary focus, magnification or alignment adjustments to the spotting scope in order to better align the target within the field of view.

ADJUSTING THE SUNSHADE

All Solitude spotting scopes are equipped with a built-in sunshade. The built-in sunshade provides several advantages such as prevention of lens glare from direct sunlight and protection of the objective lens from the elements. To use the sunshade:

1. First, open the lens cap (9) on the spotting scope.
2. Pull on the sunshade (7) until it is fully extended.
3. To collapse the sunshade, push on the sunshade to return it to its original position.



ADJUSTING THE VIEWING ANGLE

The Sightmark Solitude 20-60x60SE and 20-60x80SE are equipped with a tripod mount collar (6). This feature allows the spotting scope to be rotated 360° so the eyepiece can be moved to any location such as 90° (left or right) or 180° (bottom). This is helpful when the spotting scope is being used in different scenarios such as on a shooting bench, shooting prone, or using the spotting scope on a window mount. The 360° rotation is designed to provide flexibility and fit your specific need. To adjust the eyepiece's angle:

1. Loosen the thumbscrew located on the side of the tripod mounting collar.
2. Rotate the spotting scope so the eyepiece is located at your preferred angle.
3. Keep the spotting scope in position and tighten the thumbscrew to secure the spotting scope in position.



MOUNTING THE TRIPOD

All Sightmark Solitude Spotting scopes include a tripod that attaches to the built-in tripod mount. The built-in tripod mount also works with most aftermarket tripods and window mounts. The built-in tripod mount can be used with any tripod or window mount that uses a standard 1/4-20 UNC tripod screw. To mount the tripod:

1. Align the tripod's mounting screw with the socket on the bottom of the tripod mount (8).
2. Screw the tripod's mounting screw so that the tripod and the tripod mount are completely connected and firmly secured.



USING THE TRIPOD

The Sightmark Solitude 11-33x50SE includes a table top tripod. This tripod provides a stable platform when used on a table or when lying prone on the ground. The integrated handle allows the spotting scope to easily pan and also secures the current angle of tilt via a clamping mechanism. By rotating the handle clockwise, the handle tightens and increases the resistance of the tilt function. When the handle is completely tightened, the current angle of tilt will be locked in position. To change the spotting scope's angle of tilt, loosen the handle by rotating it counter-clockwise.



USING THE CARRY CASE

All Sightmark Solitude Spotting scopes include a padded protective carrying case. The case is designed so the spotting scope can be used with a tripod while still inside the carrying case. The case includes carry handles and a detachable shoulder strap. Adjustment straps are integrated on the side of the carry case in order to secure the including tripods for easy transport.



To use the spotting scope while in the case, unzip the back and front end of the case. Fold the front ocular cover down and underneath the case. You can secure this front cover by attaching the pieces of Velcro together. Afterwards, remove the objective lens cap. Unzip the back of the case so that the eyepiece and focus dial are easily accessible. Next, fold the left and right side of the case down and secure them in positing by attaching the pieces of Velcro together.



MAINTENANCE

Proper maintenance of the Sightmark Solitude spotting scopes is recommended to ensure longevity. It is recommended that when the spotting scope 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 denature 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. To protect the spotting scope use it at all times in the protective padded case. No further maintenance is required. Do not attempt to disassemble any components of the spotting scope.

STORAGE

Cover with the objective lens and the eyepiece with the included lens covers. For long-term storage, place the spotting scope in a cool, dry and ventilated area.

WARNING

Before handling the Sightmark Solitude spotting scope read and understand the contents of the Sightmark manual.

- Avoid hitting or dropping the unit
- NEVER look directly into the sun or at other bright light sources with the spotting scope as this could damage your eye and cause blindness.

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.

The image is blurry and not in focus:

1. Rotate the focus dial until the image becomes clear and sharp.
2. Remove any dust or oil off the objective lens or eyepiece.

SIGHTMARK LIMITED WARRANTY

Please visit **www.sightmark.com** for warranty details and information.

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