

# SIGHT MARK<sup>®</sup>

## USER MANUAL



**WRAITH**  
4-32x50 DIGITAL RIFLESCOPE  
(SM18011)

# 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.



## WRAITH SERIES

Sightmark introduces its new revolutionary and versatile Wraith digital riflescope, the perfect scope for day and nighttime use. The high-resolution Wraith is designed for all hunting applications including hog, predator and even deer. Added features include a color mode for daytime shooting, black and white or classic green for nighttime use and comes complete with a removable 850nm IR Illuminator while having an outstanding detection range of 300 yards. The Wraith also boasts 10 different reticles along with 9 different colors to choose from and features a 4x optical magnification with 8x digital zoom. This digital riflescope features a 1080p HD sensor for high-resolution imaging, 1080p HD photo/video recording and is equipped with a micro SD memory card slot while holding up to five hours of internal memory. Powered by 4 AA batteries for up to 4.5 hours of battery life, the Wraith includes a micro USB power input for external power.

### FEATURES:

- 1080P HD digital imaging
- Daytime color mode
- Night vision mode
- HD photo or video recording (memory card not included)
- 8x digital zoom
- 10 reticle options with 9 colors
- Power input
- Additional weaver rail for accessories
- 5 weapon profile saves

### INCLUDED:

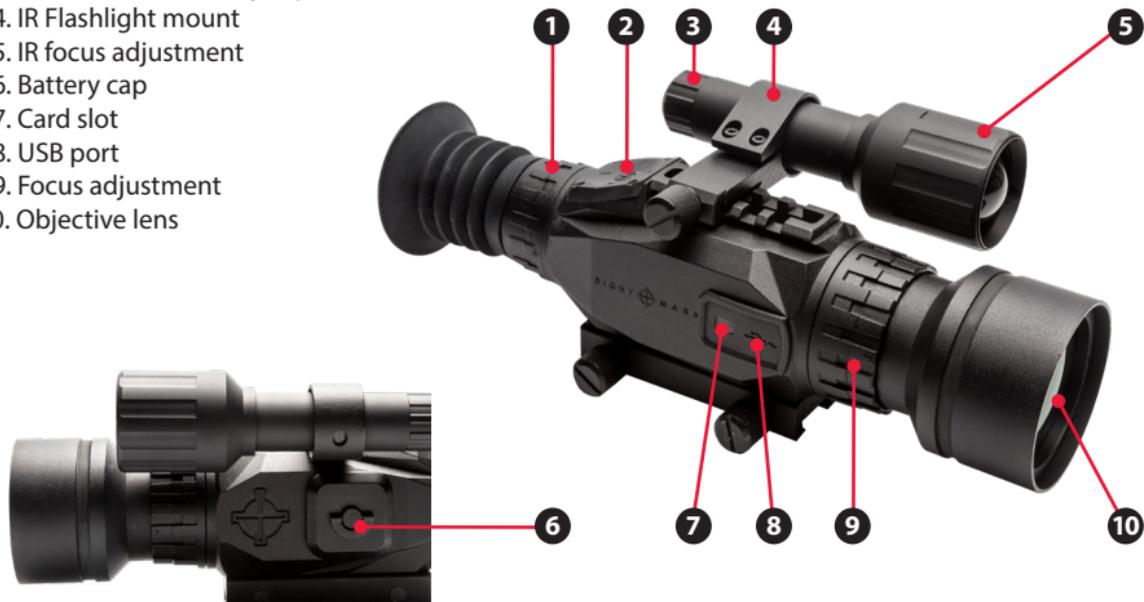
- IR flashlight
- Objective lens cover
- Fixed picatinny mount
- User manual

## TECHNICAL SPECIFICATIONS

	<b>SM18011</b>
Sensor Resolution, pixels	1920x1080
Display Type	FLCOS
Display Resolution, pixels	1280x720
Magnification	4x
Lens Diameter, mm	50
Digital Zoom	1-8x
Field of View, ft@100yd	18
Eye Relief, in/mm	2.4 / 60
IR Emitter	LED
IR Wavelength, nm	850
NV Detection Range, yd/m	200yd / 183m
Battery Type	4xAA
Battery Life, hour	4.5
Dimensions, in/mm	10.5x1.875x3 / 266x63x75
Weight (with batteries), oz	36.3

## DIAGRAM

1. Eyepiece (diopter adjustment)
2. Controls
3. IR button and battery cap
4. IR Flashlight mount
5. IR focus adjustment
6. Battery cap
7. Card slot
8. USB port
9. Focus adjustment
10. Objective lens



## INSTALLING THE BATTERY

The Sightmark Wraith uses four AA batteries. It is recommended to use batteries of the same type and same charge for best performance.

### **To install a new battery:**

1. Pull out battery access handle.
2. Turn handle counter clock-wise until the battery cap can be pulled off completely.
3. Insert batteries in to slots in orientation indicated.
4. Put battery cap back on and turn handle clock-wise until fully tightened.

## EXTERNAL POWER SUPPLY

This unit is equipped with a micro usb port for external power. The micro usb port is located under the rubber cover on the side of the unit.

## MEMORY CARD

This unit is equipped with a memory card slot used for recording. The card slot is located under the rubber cover on the side of the unit.

## MOUNTING

The unit is fitted with a picatinny mount.

### **To attach:**

1. Loosen both mount thumbscrews.
2. Place mount on to picatinny rail aligning the bolts with the picatinny rail slots. Check eye relief and adjust to the proper position.
3. Tighten thumbscrews.

## DIOPTER ADJUSTMENT

The Sightmark Wraith's eyepiece (1) is designed to rotate to adjust for diopter. The diopter is the measurement of the eye's curvature. People's eyes are all curved differently. If the display does not appear clear, crisp, nor sharp, rotate the eyepiece until the reticle becomes clear and sharp. This adjustment should stay the same unless the unit's operator changes.

### **To adjust diopter:**

1. Locate the diopter adjustment (1)
2. Turn the adjustment left or right until the display becomes focused (use icons or numbers on the display to check screen focus as the actual image through the viewfinder may need to be focused as well.)

## FOCUS ADJUSTMENT

### **To adjust focus:**

1. Locate the focus adjustment (9)
2. Turn the adjustment left or right until the image becomes focused

# VIEWFINDER

1. Profile



2. Magnification

1X 2X 3X 4X 5X 6X 7X 8X

3. Date

4. Time

5. Memory card status



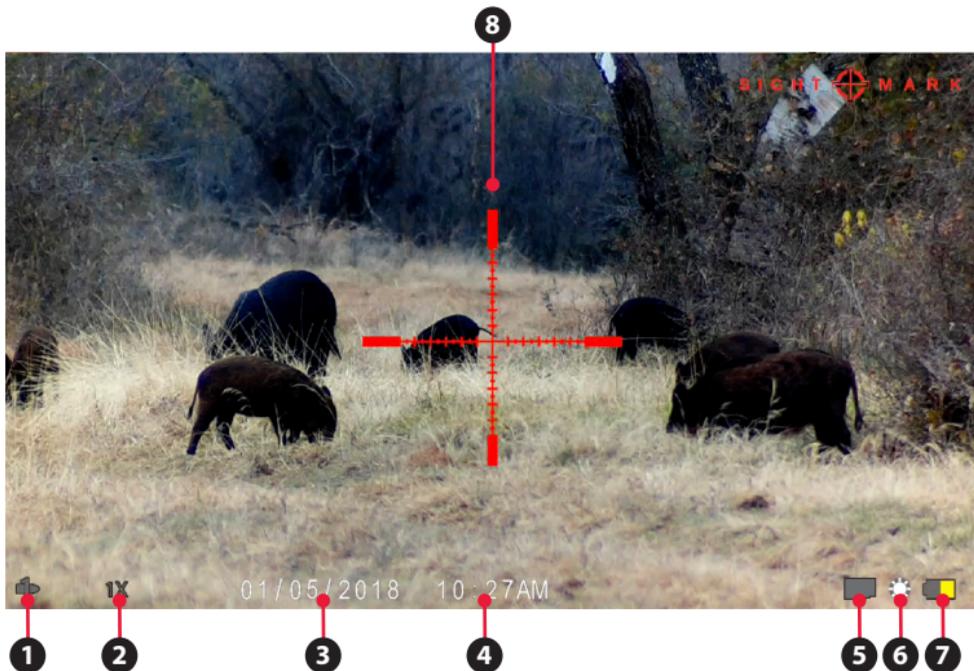
6. Day/night mode



7. Battery status



8. Reticle



## CONTROLS

**Digital Zoom** - Use the up and down arrows to adjust the magnification. This unit has a digital magnification range up to 8x

**Day/Night/Green Mode** - Use the left button to toggle between day, Night B/W, Night Green

**Menu/ Power** - To power on the unit hold the power button until the unit turns on. To turn it off hold until the display shuts off. To access the menu, click the button and the menu will open.

## IR ILLUMINATOR

**To adjust the angle of the IR illuminator:**

1. Loosen the two bolts holding the IR illuminator.
2. Adjust the angle of the illuminator in place by apply pressure to the front or rear of the illuminator.
3. Tighten the 2 bolts that were loosened.

*Twist the focus adjustment to adjust the beam width*

**To operate the IR Illuminator:**

1. Press the button on the rear of the illuminator.
2. The illuminator has 3 brightness levels (low, medium, high) and they can be cycled by clicking the button.

# MENUS

Use the up and down buttons to scroll through and the OK button to select. The left button can be used to exit menus.

1. Brightness 

2. Reticle Settings 

- a. Reticle Color
- b. Reticle Style
- c. Reticle Zero

3. Playback 

Use the up and down button to scroll through pictures and video, click ok to play back video files. Use the left button to exit playback.

4. Settings 

a. Resolution 

- i. 1080
- ii. 720

b. Record Mode 

- i. Video
- ii. Photo

c. Format Card 

- i. Are you sure? (Format Card)
- ii. Cancel

## MENUS (CONTINUED)

### 4. Settings



#### d. Firmware



i. Firmware Version

ii. Firmware Update

#### e. Time and Date



i. Time Format

1. 12 Hour

2. 24 Hour

ii. Time Set

iii. Date



### 5. Weapon Select

a. Profile 1

b. Profile 2

c. Profile 3

d. Profile 4

e. Profile 5

## MAINTENANCE

Proper maintenance of the Sightmark Wraith is recommended to ensure longevity. **Attempts to disassemble or repair the unit will void the warranty.** It is recommended that when the unit 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.

## STORAGE

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.

## TROUBLESHOOTING

Never ship back a product without getting proper authorization beforehand. Doing so could result in losing the product due to a multitude of reasons, i.e. sending it to the wrong address and other problems associated with unexpected packages.

### **The unit will not turn on:**

1. Check the polarity of the batteries. Reinstall the batteries if necessary.
2. Clean the battery compartment contacts with denatured alcohol and a cotton swab.
3. Install fresh batteries.

### **The IR illuminator will not turn on:**

1. Adjust the brightness of the IR. Adjust the display brightness. If no IR light is being detected the unit may need to be returned for service.

## TROUBLESHOOTING (CONTINUED)

### **The image is dark:**

1. Make sure the lens caps on the objective lens is opened and the IR illuminator is on. Adjust the display brightness and the IR illuminator brightness accordingly to obtain a bright, clear image.

### **There are light or black dots on the display:**

1. The presence of dots on the display is caused by sensor production technology and is not a defect. No action is required.

### **The image is not in focus:**

1. Make sure there is no dust or condensation covering the objective lens or eyepiece.
2. Adjust the focus ring near the objective lens to adjust focus for different viewing distances.
3. Make sure to adjust the diopter setting on the eyepiece for your specific vision.

### **The image is flickering:**

1. This is common if the unit is viewing or pointing in the direction of a bright light source. Cease viewing the bright light source immediately. If flickering in normal dark conditions the unit may need to be returned for service.

## FIRMWARE UPDATING

Visit [www.sightmark.com/firmware](http://www.sightmark.com/firmware) for updates and instructions.

## SIGHTMARK WARRANTY

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



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two criteria: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Changes of modifications to this unit is not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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