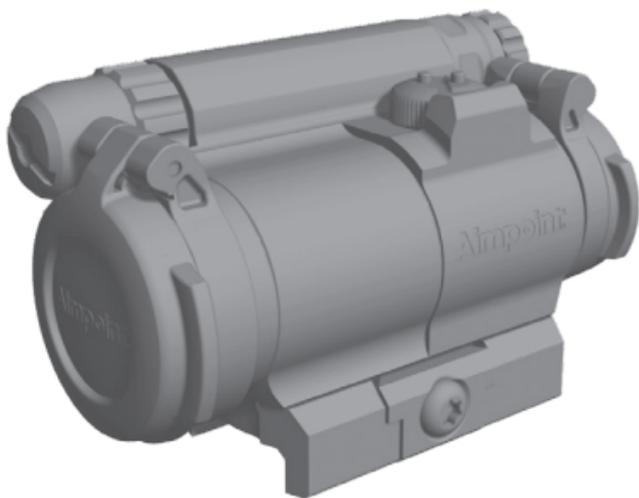


# Aimpoint®

## CompM5™ User manual



**THE FUTURE IN SIGHT.**

# 1 PRESENTATION

Aimpoint® red dot sights are designed for the "two eyes open" method which greatly enhances situational awareness and target acquisition. Thanks to the optical design the red dot follows the movement of the user's eye while remaining fixed on target, eliminating any need for centering. Aimpoint® CompM5 allow for unlimited eye relief and is compatible with Aimpoint® 3XMag-1 and Aimpoint® 6XMag-1 as well as all generations of Night Vision Devices (NVD).

## 1.1 Technical specification

### Optical system

Magnification	1X
Eye relief	Unlimited
Clear aperture	18 mm
NVD <sup>2</sup> compatible	Yes
Optical coating	Anti-reflex (AR) coating
Adjustments	1 click = 10 mm at 100 m = 3/8" at 100 yds
Adjustment range (windage and elevation)	±1 m at 100 m (±1 yds at 100 yds)
Dot size	2 MOA <sup>1</sup> (0.6 mRad)

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Dot intensity settings	10 settings manually adjusted with switch. Setting 1-4 for use with NVD and setting 5-10 for use in daylight.
Dot color	Red (655 nm $\pm$ 10 nm)
Signature	No forward optical signature from the dot beyond 10 meters

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### **Power source**

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Battery type	One AAA size 1.5 V Alkaline LR03 or Lithium FR03
Battery life <sup>3</sup>	More than 5 years of use at pos. 7, more than 1 year at pos. 8 and more than 10 years at NVD-setting (pos. 1-4).

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### **Size (L $\times$ W $\times$ H)**

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Sight	83 mm $\times$ 40 mm $\times$ 41 mm (3.3" $\times$ 1.6" $\times$ 1.6")
Sight with mount and lens covers	85 mm $\times$ 45 mm $\times$ 51 mm (3.4" $\times$ 1.8" $\times$ 2.0")

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### **Weight**

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Sight	148 g (5.2 oz)
Sight with mount and lens covers	189 g (6.6 oz)

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### **Height of optical axis**

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Sight with mount	20 mm (0.8") measured from top surface of picatinny rail
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## Mechanical interface

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Sight with mount	MIL-STD 1913 Rail system/ Picatinny rail
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## Materials

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Sight and mount	High strength aluminum, hard anodized, black to dark gray, non-glare finish
Lens covers	Thermoplastic elastomer, black, non-glare finish

## Environmental specification

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Temperature range (operation)	-45 °C to +71 °C (-49 °F to +160 °F)
Temperature range (storage)	-51 °C to +71 °C (-60 °F to +160 °F)
Water resistance	Operable when submersed to a depth of 45 m (147 ft.)
Chemical resistance	Withstands occasional contamination by weapons cleaners, lubricants, oil or insect repellants

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1 MOA: Minute Of Angle, 1 MOA  $\approx$  30 mm at 100 m or  $\approx$  1" at 100 yds

2 NVD: Night Vision Device

3 Battery life: Values valid at room temperature for a quality battery

## 1.2 Overview

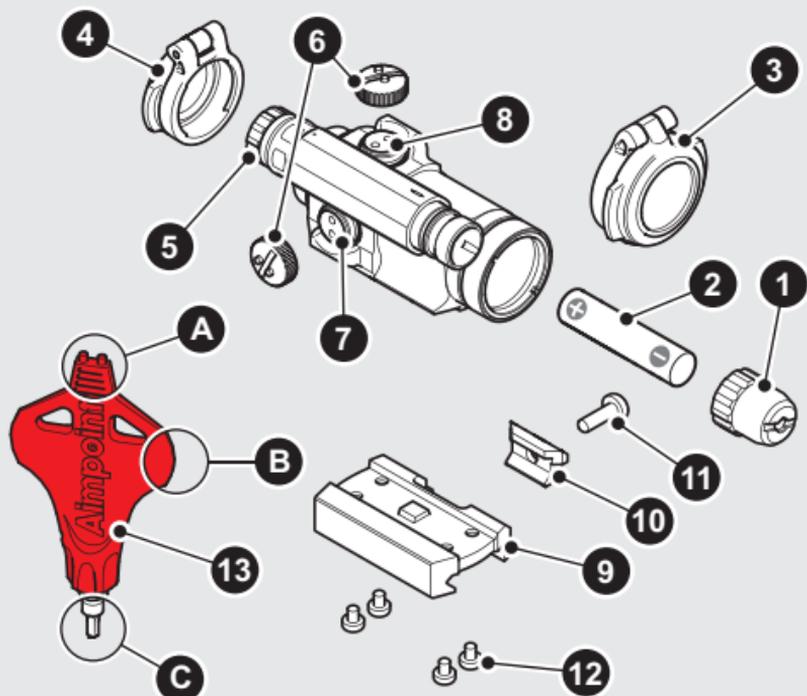


Fig. 1 Overview

- |                            |                              |
|----------------------------|------------------------------|
| 1 Battery cap              | 8 Elevation adjustment screw |
| 2 Battery (AAA)            | 9 Base                       |
| 3 Front lens cover         | 10 Locking bar               |
| 4 Rear lens cover          | 11 Screw for locking bar     |
| 5 Intensity switch         | 12 Screw (M3, 4 pcs)         |
| 6 Adjustment cap (2 pcs)   | 13 Aimpoint tool             |
| 7 Windage adjustment screw | (3 functions – A, B & C)     |

## 2 OPERATION

**WARNING:** Ensure the weapon is not loaded and the safety selector is in the "safe" position before attempting to install, remove or perform maintenance.

### 2.1 Install battery

- a Remove the front lens cover (3) by pushing on the hinge in the direction away from the sight.
- b Untighten and remove the battery cap (1). If necessary, use the tool (13B).
- c Insert battery (2) with the negative end (-) toward the battery cap (1) and the positive end (+) toward the sight as shown in Fig. 1.

**CAUTION:** Check that the o-ring is in good condition and in position to ensure there is no water leakage into the battery compartment.

- d Tighten the battery cap (1) by hand and with the tool (13B). When resistance is encountered, proceed to tighten until the battery cap (1) is fully tightened.
- e Verify that the red dot is visible.

### 2.2 Install Aimpoint® CompM5 on a weapon

If the CompM5 sight is equipped with a mount for installation on a Picatinny rail, follow the described procedure. For installation with other mounting solutions, see accompanying instruction.

- a Loosen the screw (11) using the tool (13C), and clamp the locking bar (10) around the Picatinny rail.
- b With the recoil stop of the base (9) positioned in a groove of the Picatinny rail, push the sight forward (towards muzzle) and tighten the screw (11) using the tool (13C)
- c Tighten the screw (11) until a light resistance is encountered. Proceed with another 1/4 to 1/2 turn until fully tightened.

**CAUTION:** Do not overtighten.

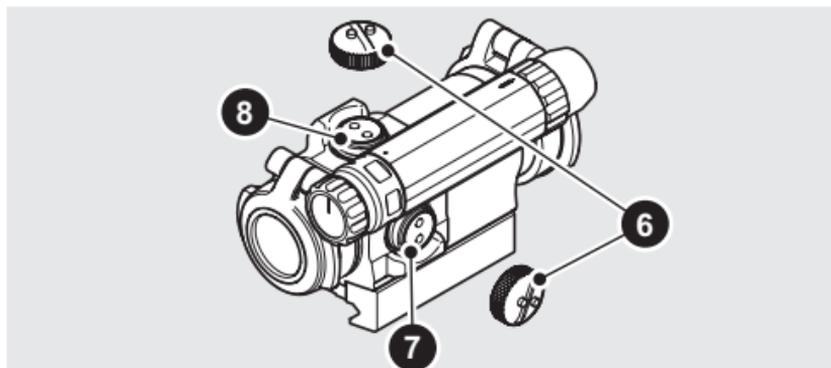
- d Proceed with zeroing (see 2.3)

## 2.3 Zeroing

The sight is delivered with the red dot in a centered position. Normally this means that only small adjustments are necessary, providing that the weapon rail is properly aligned.

**CAUTION:** Do not continue to adjust windage and elevation screws (7) and (8) if you encounter resistance.

- a Open lens covers (3) and (4).
- b Adjust the intensity switch (5) to a comfortable dot intensity setting for the red dot to contrast against the target.
- c Remove the two adjustment caps (6) to access the windage adjustment screw (7) and the elevation adjustment screw (8). See Fig. 2

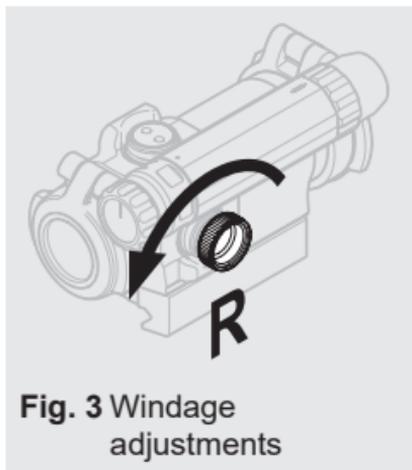


**Fig. 2** Remove adjustment caps (6)

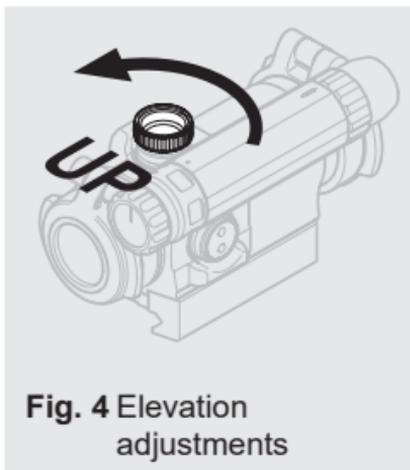
<b>6</b> Adjustment cap (2 pcs)	<b>8</b> Elevation adjustment screw
<b>7</b> Windage adjustment screw	

- d** The adjustment caps (6) or the tool (13A) must be used to turn the adjustment screws (7) and (8). Place the knobs on any of the adjustment caps into the recesses on the adjustment screws (7) and (8).
- e** Windage adjustments (see Fig. 3):
- Turn windage adjustment screw (7) counterclockwise to move point of impact to the right.
  - Turn windage screw (7) clockwise to move point of impact to the left.
- f** Elevation adjustments (see Fig. 4):
- Turn elevation adjustment screw (8) counterclockwise to move point of impact up.
  - Turn elevation adjustment screw (8) clockwise to move point of impact down.

**NOTE:** Each click of the Adjustment screws (7) and (8) corresponds to a 10 mm movement of the point of impact at 100 m or 3/8" at 100 yds.



**Fig. 3** Windage adjustments



**Fig. 4** Elevation adjustments

- g** Confirm zeroing by firing at least three shots at a zeroing target. Check points of impact to confirm accuracy and repeat zeroing procedure if required.
- h** After initial firing, ensure the sight with mount is securely installed on the weapon.

### 3 EXTREME CONDITIONS

- Extreme heat (moist or dry): no special procedures required.
- Extreme cold: extreme cold might shorten battery life. The Intensity switch (5) can be more difficult to operate than at normal temperatures.
- Salt air: no special procedures required.

- Sea spray, water, mud and snow: ensure the battery cap (1) and the adjustment caps (6) are tightened before exposing the sight to sea spray, mud, snow or before submerging the sight in water. Tighten the adjustment caps (6) and the battery cap (5) by hand and by the use of the tool (13B). Keep lens covers (3) and (4) closed when the sight is not being used. Clean lenses with lens paper/cloth and wipe the sight dry as soon as possible after exposure to water, sea spray, mud or snow.
- Dust storms and sand storms: keep lens covers (3) and (4) closed when the sight is not being used.
- High altitudes: no special procedures required.

**CAUTION:** Never clean the lenses with fingers. Use lens paper/cloth. If lens paper/cloth is not available:

- To clear away debris (sand, grass etc.): blow away the dirt or rinse with clear water.
- To clean lenses: fog the lenses or rinse with clear water and clean them with a soft piece of cloth.

## 4 TROUBLESHOOTING

### **The red dot does not appear or has disappeared**

Make sure contact surfaces in the battery compartment are clean and verify that a working battery (2) is installed correctly (see 2.1). Tighten the battery cap (1) by hand and by the use of the tool (13B) and verify there is no gap.

If the Intensity switch (5) is defective, notify local dealer/armourer.

## **The sight is impossible to zero**

If an adjustment screw (7) or (8) is at its limit, check the alignment of mount and barrel. If point of impact is moving, check the stability of mount and weapon rail (or carry handle)

## **5 INSTALLATION INSTRUCTIONS**

To avoid damage to the sight and for the proper assembly of the base (9) onto the sight, the original screws (12) (M3, 4 pcs) must be tightened by hand and with the tool (13C).

- a** Place the sight upside down in your hand.
- b** Press the base (9) against the sight and verify there is no gap.
- c** Apply locking compound to the threads and install the screws in the mount
- d** Install the screws (12) in a crosswise pattern. Tighten each screw until resistance is encountered. Proceed with another 1/4 turn until fully tightened. This is equivalent to 1.35 Nm (1.0 ft·lb) of torque.

**CAUTION:** Do not overtighten.

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