

**USER'S MANUAL  
FOR  
MPS II  
HIGH PERFORMANCE MULTIPURPOSE REFLEX SIGHT**

**CHAPTER I**

**1.1. Presentation**

Aimpoint's Reflex Sights are rugged precision electronic optical red dot sights developed for military and law enforcement applications.

Aimpoint sights are designed for the "two eyes open" method of aiming, which greatly enhances situational awareness and target acquisition speed. Thanks to the parallax-free design, the dot follows the movement of the user's eye while remaining fixed on the target, eliminating any need for centering. Further, the sight allows for unlimited eye-relief.

**1.2 Specification**

**DESCRIPTION**

Rugged Red Dot Sight for Large  
Caliber Machine Guns

Article no.	10905
NSN	1240-98205-7123

**OPTICAL SYSTEM**

Operating Principle	Passive Red Dot Collimator Reflex Sight
Optical Magnification	1 x, unlimited eye relief
Clear Aperture	44 mm
Aiming Dot Size	4 MOA, (1,2 mRad) nominal
Dot Brightness	10 positions: 4 NVD, 6 daylight of which 1 extra bright
Dot Color	Red (650 nm wavelength)
Optical Coating	Anti reflex, all optical surfaces Band Pass Coating for NVD compability

**POWER SOURCE**

Battery Type	One 3 Volt Lithium battery type DL123A
External Power Source	10-28 VDC
Battery Life, typical	1000-10.000 hours typical. Storage 10 years.

**PHYSICAL SPECIFICATIONS**

Dimensions	L x W x H: 198 mm x 78 mm x 75 mm (7.80" x 3.07" x 2.95")
Mass	630 grams (22 oz)
Material - Housing	High strength aluminum, anodized black, non-glare, finish
Radioactive Materials	None (Tritium 0%, Thorium 0%, Thorium Fluoride 0%)

**ENVIRONMENTAL SPECIFICATIONS**

Temperature Range, Operating	-45 °C to +71 °C (-50 °F to +160 °F)
Thermal Shock	> 7.7 °C/s (-45 °C to +71 °C in 15 seconds)
Humidity	0-95% condensing or non-condensing
Immersion	Waterproof
Shock	3 x 400 G 0.7-11 ms
Vibration	XYZ: 10-30 Hz: 3 mm, 30-150 Hz: 5.75 G for 30 minutes
Chemical Resistance	Not affected by weapons cleaners, lubricants, oil or insect repellants

**MECHANICAL INTERFACE**

Screws	¼”-28 screws (4pcs)
Rail Mount	Optional mount for MIL-STD 1913 Rail System “Picatinny Rail”

**MAINTAINABILITY**

Mean Time To Repair (MTTR)	Less than 0.5 hours at field level
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(MOA: Minute Of Angle (NVD: Night Vision Device)	1MOA = 30 mm at 100 meters = 1” at 100 yards)
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## **CHAPTER II**

### **OPERATION UNDER NORMAL CONDITIONS**

#### **2.1. ASSEMBLY AND PREPARATION FOR USE**

**WARNING:** Insure the weapon is unloaded and the safety selector is in the "safe" position before attempting to install, remove or perform maintenance on the sight.

##### **2.1.1. Installing Battery**

- a) Remove battery cap by turning it counterclockwise.
- b) Insert battery with positive (+) end toward cap.

**Caution while replacing battery** (not necessary when the sight is unused)

Before installing battery cap, inspect that the O-ring is present and not damaged. Failure to do so could result in water leakage into the battery compartment.

- c) Install battery cap by turning clockwise until snug. Hand tighten only. Using tools could damage equipment.
- d) Verify that red dot is present by turning the rotary switch clockwise.

##### **2.1.2. Installing Sight on the weapon**

If your weapon does not have or support an appropriate base(s), please consult your armorer or other qualified source.

See specific mounting instructions

#### **2.2. OPERATING PROCEDURES**

##### **2.2.1. Zeroing**

Aimpoint's sights are delivered in a centered position. All adjustments are made on the mount. See separate mounting instructions.

## CHAPTER III

### OPERATION UNDER EXTREME CONDITIONS

- a) **Extreme heat** (moist or dry). No special procedures required.
- b) **Extreme cold**. Extreme cold might shorten battery life. Keep spare batteries in your inner pockets to keep them warm.
- c) **Salt air**. No special procedures required.
- d) **Sea spray, water, mud and snow**. Ensure that battery cap is tight before exposing the sight to sea spray, mud, snow or before immersing the sight in water. Hand tighten only.  
Clean lenses with lens paper/cloth or lens pen and wipe the sight dry as soon as possible after exposure to water, sea spray, mud or snow.
- e) **Dust storms and sand storms**. No special procedures required.
- f) **High altitudes**. No special procedures required.

**CAUTION:** The lenses shall never be cleaned with fingers but with lens pen, paper/cloth.

If no lens paper/cloth available :

- To clear away debris (sand, grass etc): blow away the dirt.
- To clean lenses: mist up the lenses and dry them with a clean and soft piece of cloth or lens pen.

## CHAPTER IV

### TROUBLE SHOOTING PROCEDURES

#### 4.1 RED DOT DOES NOT APPEAR

Discharged battery	Replace battery
Battery installed incorrectly	Remove and reinstall battery with (+) toward cap
Battery is not making good contact	Clean contact surfaces and reinstall battery.
Defective rotary switch	Notify dealer/armourer

#### 4.2 IMPOSSIBLE TO ZERO

Adjustment screw is at its limit	Check alignment of mount to barrel
Impact point is moving	Check mount stability

## **CHAPTER V**

### **MAINTENANCE**

- a) This reflex sight does not require any particular maintenance while used under normal conditions.
- b) Under severe weather conditions please refer to chapter III.
- c) Warehouse storage: Remove battery
- d) To clean lenses refer to NOTE in chapter III.

## **CHAPTER VI**

### **SPARE PARTS**

Battery lid complete  
Wire for battery lid incl. screw  
Lens cover front  
Lens cover rear  
Switch knob incl. two screws

**Aimpoint AB**

**Aimpoint Inc.**

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