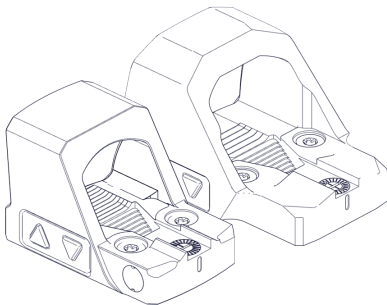




# MPO-S/F

## Mepro Pistol Optic



# USER MANUAL



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## Important Information

Ensure the firearm is unloaded and safe by removing all ammunition and the magazine from the firearm. Verify the chamber is empty before installation and battery replacement.

Read and follow the instructions in this manual carefully. Improper use or maintenance may permanently damage the product and void the warranty.

This manual provides description, operating, maintenance instructions, and technical specifications for the MPO-S and MPO-F models of the Mepro Pistol Optic (hereinafter referred to as "MPO").

**NOTE: The illustrations in this manual are of the MPO-S.**

# Button Cell and Coin Battery safety:

## ⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**.
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



## ⚠ WARNING

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. **DO NOT** dispose of batteries in fire.
- Even used batteries may cause severe injury or death.
- Seek medical attention immediately if ingested or inserted.
- Battery type: CR2032
- Battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury/burns, explosion, or fire.

## ⚠ BATTERY WARNING

- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries and keep them away from children.



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# 1. INTRODUCTION

## Main Features

- Precision Machined from aircraft-grade 7075-T6 Aluminum with Anodized Matte Black Finish.
- Illuminated multi-pattern reticle.
- Manual or automatic dot brightness intensity adjustment with light Sensor.
- Manual brightness settings: 10 daylight/2 NV.
- Over 30,000 hours of battery life at the medium brightness setting.
- Power Saving mode: Reticle turns off when inactive for 1 hour.

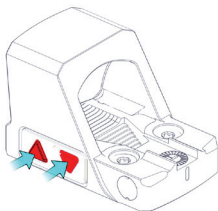
- Low Battery Indicator - Reticle blinks every 0.5 seconds when battery is low.
- Side Loading Battery Compartment.
- 1 MOA per click windage and elevation adjustment.
- IPX7 Waterproof Ratings (Open/Closed).
- MPO-S Footprint: RMSc/JPoint®.  
MPO-F Footprint: RMR®.
- Phosphorescent tertiary aiming reference marks.

## Package Contents

| Description         |                | Qty |
|---------------------|----------------|-----|
| MPO-S/MPO-F         |                | 1   |
| CR1632 Battery      |                | 1   |
| Slotted Screwdriver |                | 1   |
| MPO-S               | Screw #6-32x9  | 2   |
|                     | Screw M4x10    | 2   |
| MPO-F               | Screw #6-32x10 | 2   |
|                     | Screw #6-40x10 | 2   |
|                     | Screw #6-32x9  | 2   |
| T10 Torx Wrench     |                | 1   |
| Cleaning Cloth      |                | 1   |
| User Manual         |                | 1   |

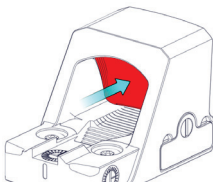


## 2. KEY FEATURES



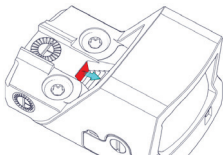
### **Keypad Mode Buttons**

"UP" ▲ and  
"DOWN" ▼ buttons.



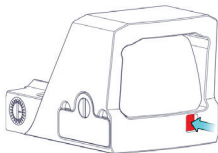
### **Lens**

Large FOV multi-  
coated glass lens.



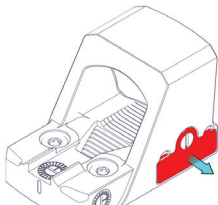
### **Reticle Projection Window**

Projecting the reticle through the illumination window onto the lens.



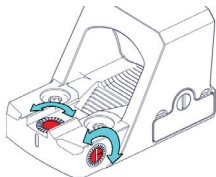
### **Light Sensor**

For automatic reticle brightness adjustment.



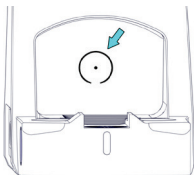
### **Battery Compartment**

Side loading.  
Accepts a single CR1632 battery.



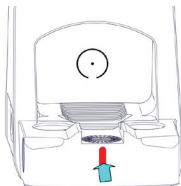
## **Windage and Elevation**

Adjustment screws.  
Each click equals  
1 MOA.



## **Low Battery Indication**

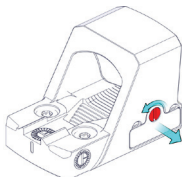
The reticle blinks  
every 0.5 seconds  
when the battery is  
low.



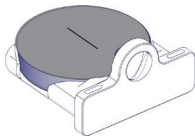
Aiming reference  
mark



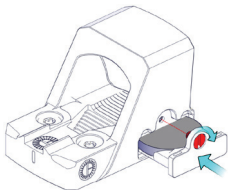
## 3. BATTERY INSTALLATION



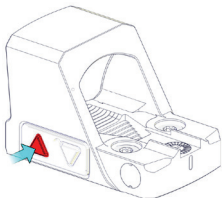
Loosen the battery tray screw and remove the battery tray.



Place the CR1632 battery into the tray with the positive (+) side facing down.



Reinsert the battery tray and battery into the optic and tighten the screw until snug. Do not over-tighten.



Check functionality:  
Short press the "UP" ▲ button for 1 second to Power-On. Ensure the reticle is visible.

## 4. OPTIC INSTALLATION

- Your MPO optic includes mounting screws as specified in the table below.
- All the supplied screws include a pre-applied locking compound to hold screws securely in place.
- **When using other screws without pre-applied locking compound, apply LOCTITE® 243 threadlocker. Allow a minimum of 3 hours for curing.**
- The recommended torque value is 12 in-lbs.

## Model-Specific Footprint & Screws

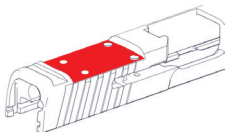
| MODEL | MOUNTING FOOTPRINT | MOUNTING SCREWS (2 each)       |
|-------|--------------------|--------------------------------|
| MPO-S | RMSc/JPoint®       | #6-32x9; M4x10                 |
| MPO-F | RMR®               | #6-32x10;<br>#6-40x10; #6-32x9 |

- The MPO-S/F are designed to directly mount to most pistols with RMSc/RMR® optic cut or adaptor plate, available from your pistol manufacturer.

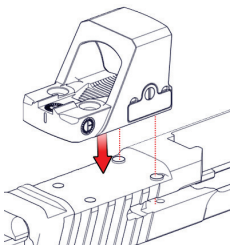
## Installation

**WARNING:** Before starting, ensure the pistol is unloaded by removing the magazine and confirming the chamber is empty.

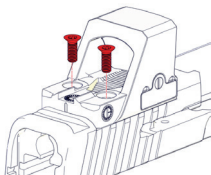
- Remove the slide assembly from the pistol. Follow the manufacturer's instructions for removal.



If applicable, remove the slide's cover plate to access the mount base.



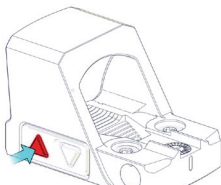
Place the optic onto the slide, ensuring the holes on the bottom align with the short posts on the mount base.



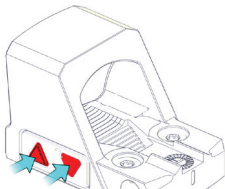
Install the two mounting screws. Tighten to 12 in-lbs.

**NOTE:** Some optics-ready pistol platforms include specific screws and/or adaptor plates that may be required to mount optics on your pistol. These screws may be better suited for installing your MPO optic. It is important to read the manufacturer's procedures in addition to ours.

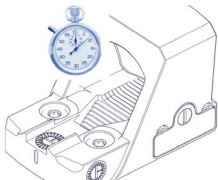
## 5. OPERATION



**Power On:** Apply a single press to the "UP" ▲ button for 1 second.

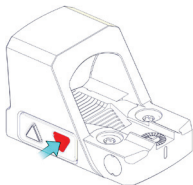


**Power Off:** Press and hold the "UP" ▲ and "Down" ▼ buttons for approximately 3 seconds.



## Power Saving

Your pistol sight will go into Power Saving ("sleep") mode after 1 hour of no motion. The sight will wake up in the last setting when it is shaken or moved.



## Reticle Selection:

Press and hold the "Down" ▼ button for 3 seconds to change the reticle pattern once. There are three reticle options:

.

3 MOA Dot.



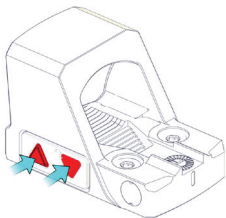
3 MOA Dot & 33 MOA Ring.



33 MOA Ring.

## Reticle Brightness

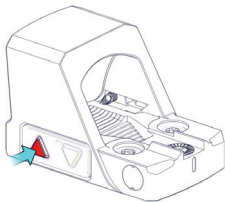
### Manual Brightness Mode:



Short press the "UP" ▲ or "DOWN" ▼ button to increase or decrease reticle brightness intensity. See the following paragraph for more details.

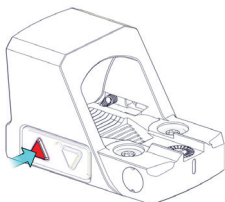
- When you power up the sight after battery installation, Manual Brightness Mode is the default, at medium brightness intensity.
- The reticle will blink twice on the brightest and lowest settings.

## Auto Brightness Mode:



To activate Auto Mode: Press and hold the "UP" ▲ button for 3 seconds.

- The reticle brightness intensity will increase rapidly from low to high to indicate that the Auto Reticle Brightness Mode is active.
- In this mode, the reticle brightness intensity will change based on the amount of surrounding light in the immediate environment."



To deactivate Auto Mode: Press and hold the "UP" ▲ button for 3 seconds.

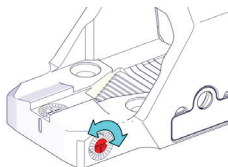
- The reticle brightness intensity will decrease rapidly from high to low to indicate that the Auto Reticle Brightness Mode is deactivated.



## 6. ZEROING

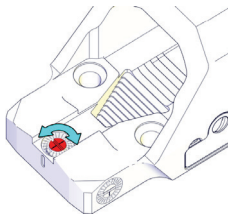
**NOTE:** Each click of the adjustment screws equals 1 MOA.

### Windage Adjustment



To move the Point of Impact (POI) to the right, turn the windage adjustment screw counterclockwise.

To move the POI to the left, turn the windage adjustment screw clockwise.



## **Elevation Adjustment**

To move the POI up, turn the elevation adjustment screw counterclockwise.

To move the POI down, turn the elevation adjustment screw clockwise.

- The MPO is zeroed when the point of impact (POI) overlaps the point of aim (POA) at your specified target. Shoot to confirm.

## 7. TROUBLESHOOTING

| Problem             | Cause                                                                  | Solution                                                  |
|---------------------|------------------------------------------------------------------------|-----------------------------------------------------------|
| Reticle not Visible | Dust or debris blocking the Illumination Window or the Light Sensor    | Clean as required. Refer to Care and Maintenance section. |
|                     | The MPO is powered OFF                                                 | Power On                                                  |
|                     | Reticle illumination level too low                                     | Increase reticle illumination                             |
|                     | The MPO went into Power Saving ("sleep") mode after 1hour of no-motion | Activate the MPO with movement                            |

| Problem                                              | Cause                         | Solution                                             |
|------------------------------------------------------|-------------------------------|------------------------------------------------------|
| Reticle not Visible                                  | Depleted battery              | Replace battery                                      |
| When trying to Power-On, the reticle flashes rapidly | Depleted battery              | Replace battery                                      |
| Not holding zero                                     | Optic is not properly mounted | Check proper installation & mounting screw tightness |

## 8. CARE AND MAINTENANCE

- Maintain the finish of your MPO optic by wiping any dirt or sand with a clean, soft cloth or Q-tip.
- Do not touch the lens with your fingers or fingernails.
- Avoid contact with acid, alkaline, or corrosive chemicals.
- Remove the battery if being stored for an extended period.
- Do not attempt to lubricate any part of the MPO optic.
- Do not disassemble the MPO optic. Any such action will void the warranty.

**Warning:** Viewing the sun can cause serious eye injury.



## 9. TECHNICAL SPECIFICATIONS

|                          | MPO-S                    | MPO-F               |
|--------------------------|--------------------------|---------------------|
| Mount Footprint          | RMSc/<br>JPoint®         | RMR®                |
| Mounting Screw<br>Torque | 12 in-lbs.<br>(1.35 N-m) |                     |
| Emitter Type             | Open                     |                     |
| Dimensions               |                          |                     |
| L                        | 1.62"<br>(41.3 mm)       | 1.82"<br>(46.35 mm) |
| H                        | 1.01"<br>(25.8 mm)       | 1.11"<br>(28.2 mm)  |
| W                        | 1.02"<br>(26.1 mm)       | 1.25"<br>(31.9 mm)  |

|                                     | MPO-S                 | MPO-F                |
|-------------------------------------|-----------------------|----------------------|
| Lens Dimensions                     |                       |                      |
| H                                   | 0.60"<br>(15.3 mm)    | 0.70"<br>(17.9 mm)   |
| W                                   | 0.80"<br>(20.2 mm)    | 0.94"<br>(24.0 mm)   |
| Weight<br>(w/Battery)               | 1.11 oz<br>(31.4 gr.) | 1.4 oz<br>(39.8 gr.) |
| Body Material                       | 7075 T6 Aluminum      |                      |
| Battery Type                        | CR1632 3V             |                      |
| Battery Life (in<br>medium setting) | Over 20,000 Hours     |                      |
| Power Saving<br>Mode                | 1 Hour                |                      |
| Auto Shut-off                       | Constant ON           |                      |

|                                    | <b>MPO-S</b>                  | <b>MPO-F</b> |
|------------------------------------|-------------------------------|--------------|
| Illuminated Multi-pattern reticle  | 3 MOA Dot.                    |              |
|                                    | 3 MOA Dot & 33 MOA Ring.      |              |
|                                    | 33 MOA Ring.                  |              |
| Brightness Levels                  | 10 Daylight/2 NV              |              |
| Illumination Mode                  | Auto & Manual                 |              |
| W/E Adjustment per click (100 yds) | 1 MOA                         |              |
| Elevation Travel                   | 60 MOA                        |              |
| Windage Travel                     | 60 MOA                        |              |
| Operation Temperature              | -22°F-+140°F<br>(-30°C-+60°C) |              |
| Storage Temperature                | -40°F-+158°F<br>(-40°C-+70°C) |              |

|                   | <b>MPO-S</b> | <b>MPO-F</b> |
|-------------------|--------------|--------------|
| Eye Relief        | Infinite     |              |
| Parallax (50 yds) | Free         |              |
| Waterproof Rating | IPX7         |              |

**NOTE:** Actual values (unless otherwise mentioned) may vary by  $\pm 5\%$ , according to specific configuration.





## **USA**

e-mail: [sales@meprolight.us](mailto:sales@meprolight.us)

e-mail: [support@meprolight.us](mailto:support@meprolight.us)

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

## **International (Except The USA)**

e-mail: [sales@meprolight.com](mailto:sales@meprolight.com)

e-mail: [support@meprolight.com](mailto:support@meprolight.com)

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