



MEPROLIGHT®

SK GROUP MEMBER

MEPRO CARBINE OPTIC

MCO PRO

USER MANUAL

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WARNING: Read the entire manual before mounting optic. Make sure the firearm is unloaded.

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INTRODUCTION

Thank you for purchasing your MCO PRO. Before operation, please read the User's Manual carefully.

IMPORTANT INFORMATION

- Register your optic at <https://links.meprolight.com/ProductReg>.
- Ensure the firearm is unloaded and safe by removing your magazine and all ammunition 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 MCO PRO.

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 household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- 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 due to venting, leakage or explosion resulting in chemical burns.

⚠ warning

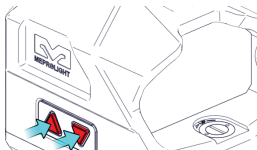
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time accordingly 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.

PACKAGE CONTENTS

Description	Quantity
MCO PRO with 1.5" adapter*	1
CR2032 Battery	1
Flathead/ T8 Torx Screwdriver	1
T20 Torx Wrench	1
Cleaning Cloth	1
User Manual	1

***NOTE:** A 1.93" Riser is available separately.

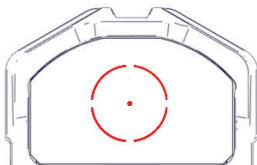
ANATOMY



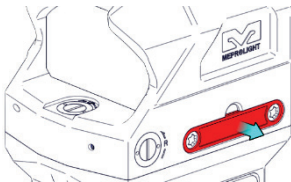
Keypad Mode Buttons.



Large FOV multi-coated glass lens.



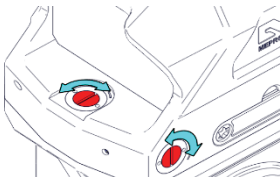
Multi-pattern reticle.



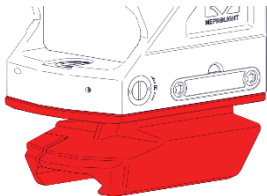
Side Loading CR2032 Battery.
25,000+ Hours of Battery Life.



Light sensor.



Windage and Elevation Screws.
Each Click Equals 0.5 MOA.



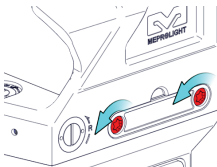
Rail Adapter.

NOTE: A standard (1.53") adapter is shown here. A 1.93" Riser is available separately.

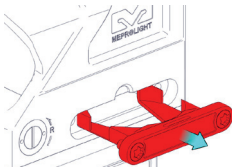
KEY FEATURES

- Precision machined from 7075-T6 Aluminum with anodized matte black finish.
- 3-segmented user selectable reticle.
- Automatic or manual brightness modes.
- Manual brightness settings: 10 daylight/2 NV.
- Side loading battery compartment.
- 25,000 + hours battery life (Setting 5).
- Single CR2032 battery.
- Low-Battery Power Indicator - Reticle blinks every 0.5 seconds when battery is low.
- 0.5 MOA per click adjustment.
- Shake awake.
- IP67 waterproof rating.
- MIL-STD-1913 1.53" mount included.
- MIL-STD-1913 1.93" mount available, sold separately.

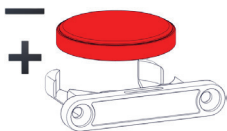
BATTERY INSTALLATION



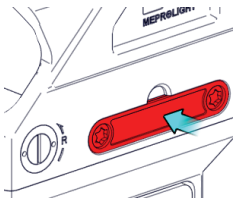
Using a T8 Torx screwdriver, remove the two battery tray screws.



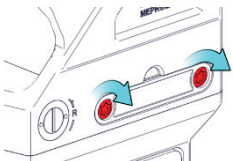
Pull the battery tray (with screws) out from the optic.



Place the CR2032 battery into the tray with the positive (+) side facing down.

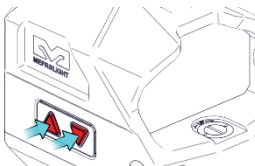


Reinsert the battery tray and battery into the optic.



Using a T8 Torx screwdriver, tighten the two battery tray screws.

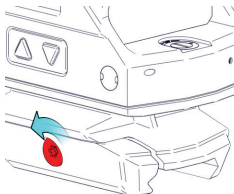
NOTE: Do not overtighten.



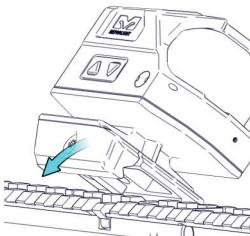
Test for function by applying a single press to the left or right activation button; the optic should turn on.

OPTIC INSTALLATION

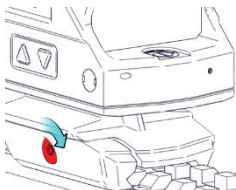
WARNING: Before starting, ensure your firearm is unloaded by removing the magazine and confirming the chamber is empty.



Loosen the T20 Torx screw on the left side locking plate.

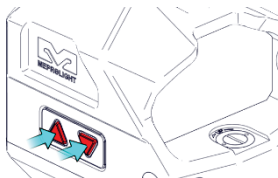


Tilt the MCO PRO to the right as shown, and then mount it on the rail.

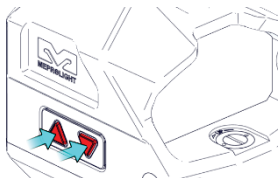


Tighten the screw. Ensure that the MCO PRO is firmly secured on the rail. Torque the T20 Torx Screw to 35 in-lbs.

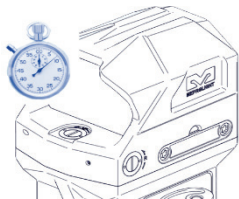
OPERATION



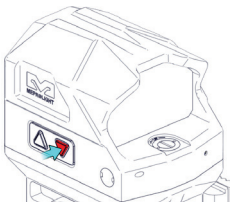
Power On: Apply a single press to either button for 1 second.



Power Off: Press and hold the "UP" and "DOWN" buttons at the same time for 3 seconds.



Power Saving: Your MCO PRO will go into Power Saving ("sleep") mode after 15 minutes 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 5 seconds to change the reticle pattern once. There are three reticle options:



2 MOA Dot.



2 MOA/68 MOA Speed Ring.



2 MOA/68 MOA Speed Ring with 1.5 MOA dots.

RETICLE BRIGHTNESS

Manual Brightness Mode:

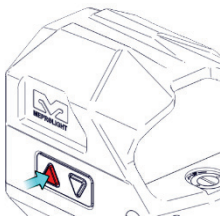


Short press the “UP” or “DOWN” button to increase or decrease brightness.

The reticle will blink twice as an indication of reaching the brightest and lowest settings.

- When you power up the sight after battery installation, Manual Brightness Mode is the default at medium brightness intensity.

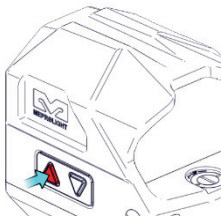
Auto Brightness Mode:



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.

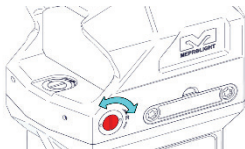


To deactivate Auto Mode: Press and hold the “UP” button for 3 seconds. The reticle brightness intensity will decrease rapidly from high-to-low to indicate that the Auto Reticle Brightness Mode is deactivated.

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

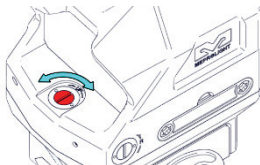
ZEROING

NOTE: Each click of the adjustment screws equals 0.5 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.

Your MCO PRO is zeroed when the point of impact (POI) overlaps the point of aim (POA) at your specific target.

Meprolight® recommends a 50 yard zero for your MCO PRO.

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 optic is powered OFF	Power On
	Reticle illumination level too low	Increase reticle illumination
	The optic went into Power Saving ("sleep") mode after 15 minutes of no-motion	Activate the optic with movement
	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	Ensure that the MCO is firmly secured on the rail.

CARE AND MAINTENANCE

- Maintain the finish of your MCO PRO optic by wiping any dirt or sand with a clean, soft cloth.
- Do not touch the lens with your fingers.
- Avoid contact with acid, alkaline, or corrosive chemicals.
- Ensure that the MCO is powered off before it is stored for an extended period.
- Do not attempt to lubricate any part of the MCO PRO.
- Do not disassemble the MCO PRO. This will void the warranty.

SPECIFICATIONS

Parameter	Spec
Mount	MIL-STD-1913
Mounting Screw Torque	35 in-lbs.
Emitter Type	Closed
Dimensions (LxHxW)	2.06"x 2.28" x 1.59" (52.5mm x 58.0mm x 40.6mm)
Weight (w/battery)	5.33 oz (151 g)
Body Material	7075-T6 Aluminum
Reticle	3-Segment Speed Ring (2 MOA Dot, 2/68 MOA Speed Ring, Speed Ring with 1.5 MOA dots)
Brightness Levels	10 Daylight/2 NV
Illumination Modes	Auto & Manual
W/E Adjustment per click (100 yds)	0.5 MOA
Elevation Travel	±50 MOA
Windage Travel	±50 MOA
Eye Relief	Infinite
Parallax (50 yds)	Free

Parameter	Spec
Battery Type	CR2032
Battery Life* ¹ (Medium Setting)	25,000 + hours (Manual setting 5)
Sleep Mode	15 minutes, shake awake
Auto Shut-off	Constant ON

NOTE*¹: Please be advised that all battery life estimates are based on the use of a high-quality CR2032 battery, with the device set to setting 5 and a dot. The use of speed Ring reticles or manual brightness adjustments may impact overall battery performance. We advise having a battery management plan in place. For professional shooters, we recommend replacing the batteries annually. For recreational use, changing them once a year should suffice. This ensures you're always prepared and never caught off guard by a dead battery.

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

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