



MECANIK MO2 Versatile Reflex Sight User Manual

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MECANIK MO2 Versatile Reflex Sight



PRODUCT INTRODUCTION

The MECANIK MO 2 Reflex Sight is an open reflex optic sight that provides quick target acquisition and allows the shooter to stay focused on the target, increasing hit probability. The sight is used for competitions, home and self-defense purposes. It is reliable, efficient, and rugged, making it the most superior electronic sighting system in the world.

OVERVIEW

The MECANIK MO2 Reflex Sight has a clear aperture of 28x20mm and is made of high-strength aluminum with a matte black finish. It has 10 levels of brightness settings and an anti-reflex optical coating for all surfaces and high transmission. The sight has a 3 MOA aiming dot size and is NVG compatible.

TECHNICAL SPECIFICATION

The MECANIK MO2 Reflex Sight operates on a reflex collimator sight with LED and has a 1x optical magnification. It has a visible dot intensity against a background luminance of 0.1 to 55,000 lx and is powered by a 3V lithium battery, type CR 2032. The battery life is up to 6.5 years (60,000h) at the lowest setting. The site has unlimited eye relief and weighs 31g (1.09oz).

PRODUCT OPERATION

WARNING: Before beginning, remove all live ammunition, loaded magazines, and other firearms from the working area. Ensure the firearm is completely unloaded by following the unloading procedures in the firearm's manual.

BATTERY INSTALLATION

To install the battery, insert it with the negative end toward the sight. For storage, remove the battery.

TURN ON/OFF AND ADJUST INTENSITY

To turn the sight on, press the (+) switch. The site has 10 levels of brightness settings, and pressing the (+) switch will increase the dot intensity.

INSTALL THE MECANIK OPTIC SIGHT

Instructions for installing the MECANIK optic sight are not provided in this user manual.

ZEROING OPTIC

Instructions for zeroing the optic are not provided in this user manual.

PRODUCT MAINTENANCE

CLEANING OF EXTERIOR SURFACES

Clean the exterior surfaces of the sight using a soft, clean cloth. Do not use solvents or abrasive cleaners.

LENS CLEANING

Clean the lens using a soft, clean cloth. If necessary, use a lens cleaning solution specifically designed for coated lenses.

PRODUCT MECANIK OPTIC GLOBAL WARRANTY POLICY (USA & CANADA EXCLUDED)

Instructions for the MECANIK Optic global warranty policy are not provided in this user manual.

PRODUCT MECANIK OPTIC WARRANTY POLICY(USA & CANADA)

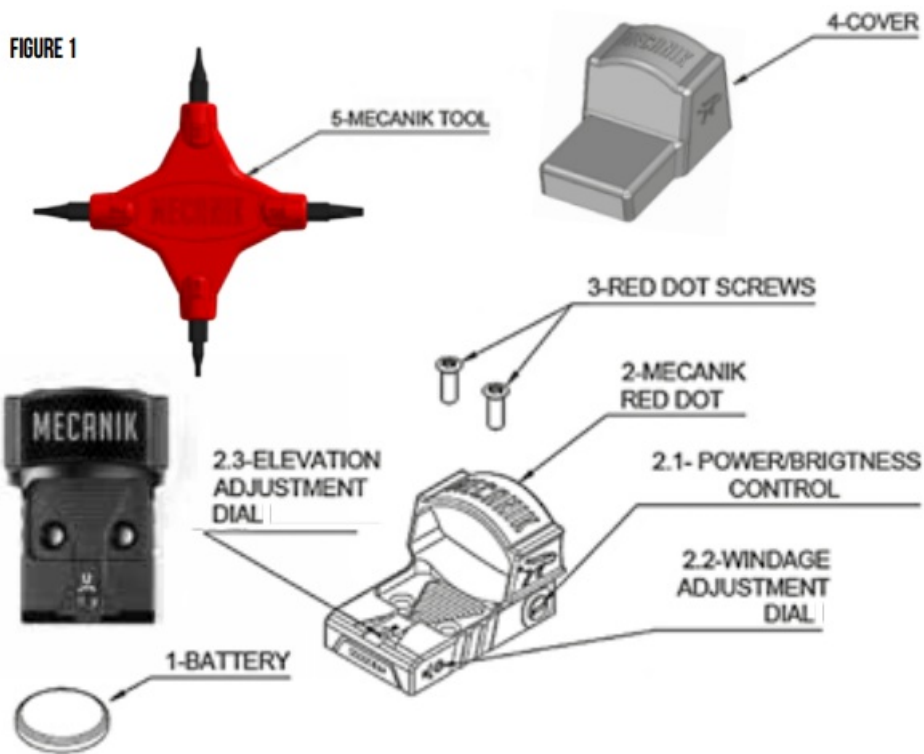
Instructions for the MECANIK Optic warranty policy in the USA and Canada are not provided in this user manual.

INTRODUCTION

Open Reflex Optic Sights have proven to be invaluable in achieving quick target acquisition. They provide the greatest hit probability on targets by allowing shooters to stay focused on the target. Shooting with both eyes open allows the shooter to remain situationally and environmentally aware of what is going on around them at all times. MECANIK red dot sights increase the shooter's confidence by providing an accurate aiming platform. We designed our MO2 sights to meet the demands of firearm using professionals, and competition shooters while also incorporating state-of-the-art technology. The unique design of our red dot optic's outer frame provides ease of racking the pistol with a single hand if needed. This sight is made to endure and work in the most demanding operational and environmental conditions. For these reasons are why our optics are relied upon by users across the globe. MECANIK MO 2 Reflex sights are used not only for competitions but also for home and self defense purposes. We are proud to give you the most efficient, reliable, and rugged electronic sighting system in the world. Welcome to the superior way of doing things with MECANIK.



OVERVIEW



TECHNICAL SPECIFICATION MECANIK MO2 REFLEX SIGHT

OPTICAL SPECIFICATIONS	
Operating principle:	Reflex collimator sight with LED
Optical magnification:	1x
Aiming dot size:	3 MOA
Dot intensity:	Visible against a background luminance of 0.1 to 55 000 lx
Dot color:	RED Wavelength: 655 ± 15 nm
NVD compatible:	Yes
Optical coating:	Anti-reflex, all surfaces and high transmission.
Clear aperture (Window Dimension):	28x20mm (1.1x0.79 in)
POWER SOURCE	
Eye relief:	Unlimited
Battery type:	3V lithium battery, type CR 2032
Battery life – Day time use:	6.5 years (60,000h) at lowest setting
Power intensity:	2 NV+8 Daylight

PHYSICAL SPECIFICATIONS	
Length sight only:	47mm(1.85in)
Width sight only	31.5mm(1.24in)
Height sight only:	27.5mm(1.08in)
Weight sight with battery:	31g(1.09oz)
Housing material:	High strength Aluminum
Housing finish and color:	Matte black
Housing anodized:	Yes
Surface treatment:	Anodized
Adjustment range:	100 MOA Total travel
ENVIRONMENTAL SPECIFICATIONS	
Temperature range operation:	-30°C to +60°C (-22°F to +140°F)

- **MOA:** One dial mark yields one MOA of adjustment. One MOA = 1.05 inches @100 yards. NVD: Night Vision Device.
- **Battery life:** Values valid at room temperature for a quality battery.

EXTREME CONDITIONS

- **Extreme heat (moist or dry):** No special procedures required.
- **Extreme cold:** Extreme cold might shorten battery life.
- **High altitudes:** No special procedure required.

KEY FEATURES

- 3 MOA Red Dot Size
- Vortex® Venom® FOOTPRINT
- Designed for use with handguns, rifles, or shotguns
- Large optic window area 28x20mm
- Automatic shutoff after 4 hours
- 1 MOA adjustable elevation & windage
- Waterproof & shockproof housing
- Manual brightness adjustment
- Parallax Free



CONTENTS

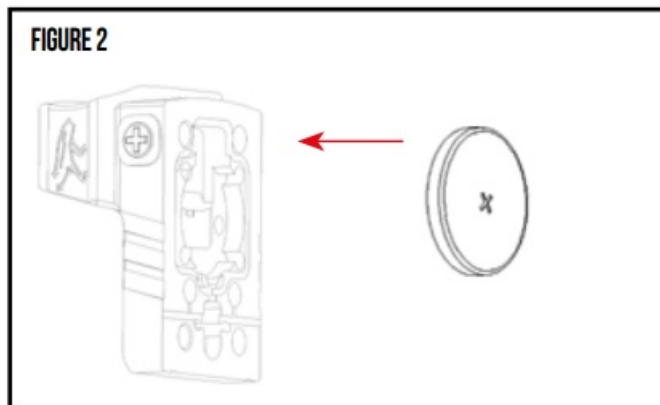
- MECANIK MO2 Reflex sight
- Protective cover
- (2) M3 X 10mm Screws
- CR2032 Battery
- Cleaning cloth
- Owner's Manual
- MECANIK Multi-function Wrench (Mounting/ Windage/Elevation Adjustment)

OPERATION

WARNING: Before beginning remove all live ammunition, loaded magazines and other firearms from the working area. Ensure the firearm is completely unloaded by following the unloading procedures in the firearm's manual.

INSTALL THE BATTERY

Insert battery (FIGURE 2 with the negative end toward the sight as shown in Figure#2).



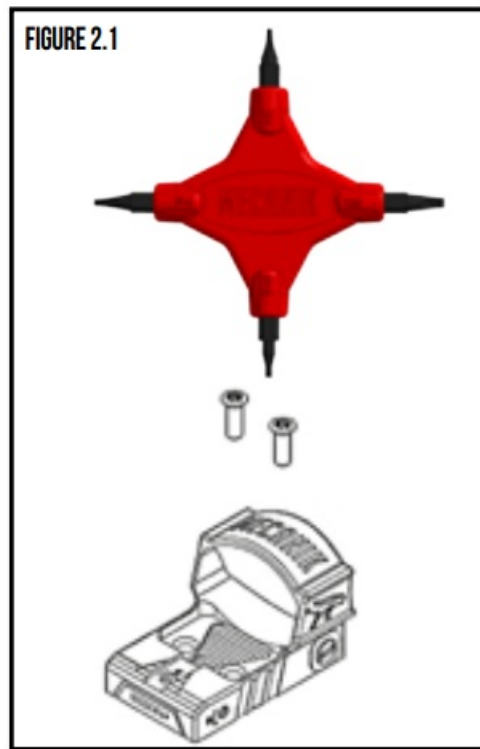
NOTE: For storage of sight, remove the battery.

TURN ON/OFF AND ADJUST THE INTENSITY

Pressing the (+) switch will turn the sight ON. The sight comes with 10 levels of brightness settings. Pressing the (+) switch will increase the dot intensity. Pressing the (-) switch will decrease Figure 2.1 the dot intensity. Pressing the (-) switch more than 3 seconds will turn the unit OFF.

INSTALL THE MECHANIK OPTIC SIGHT

WARNING: Prior to installation, battery change, cleaning or maintenance, ensure that the firearm is unloaded with the safety on and pointed in a safe direction. The MO2 comes with 1 set of screws (M3x10mm). Before installing the MECANIK optic sight, be sure it fits properly into the sockets for your firearm. Use Torx key (T10) to tighten.

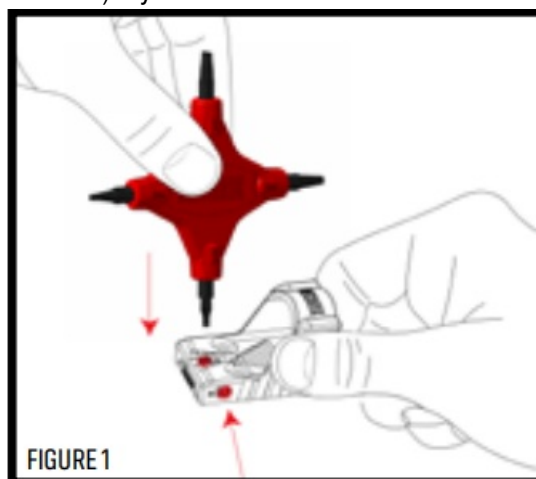


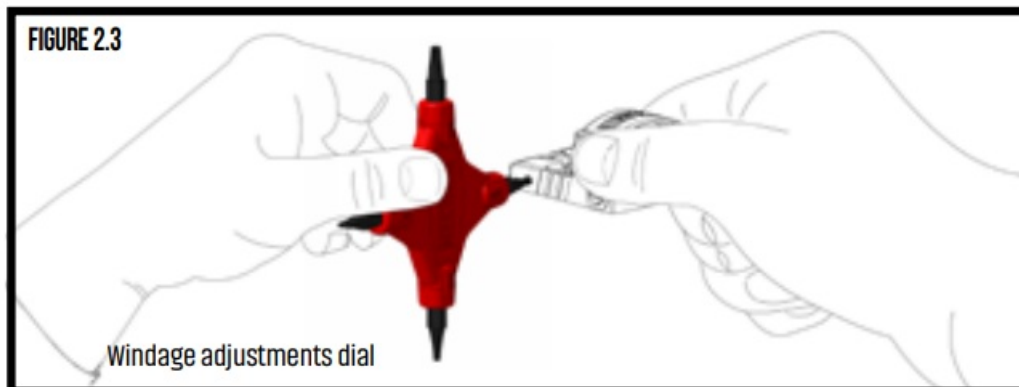
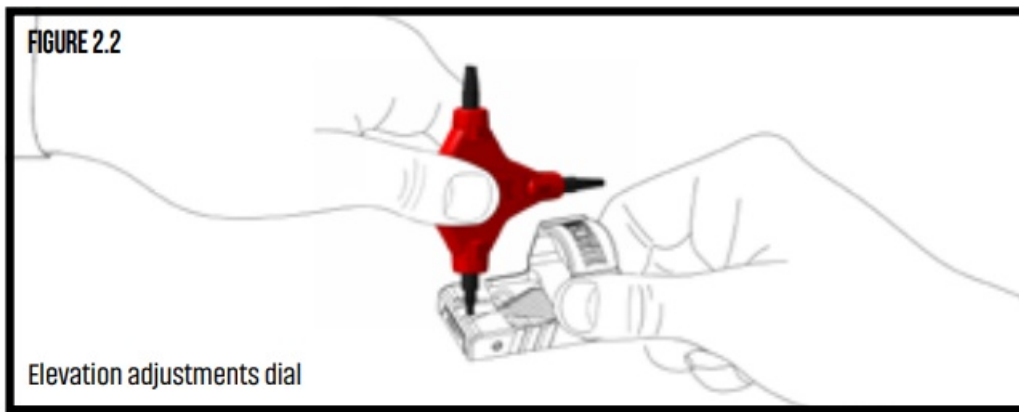
The included screws may or may not be compatible with other platforms, and you should consult the firearms manufacturer for compatibility information.

Note: If your firearm is not already equipped with an optic interface, it may be sold separately.

ZEROING OPTIC

CAUTION: Do not continue to adjust windage and elevation screws. Adjust the intensity to a comfortable setting for the red dot to contrast clearly against the target. Use the MECANIK tool (FIGURE 1) to turn the adjustment screws. Windage adjustments dial (FIGURE 2.3) Turn windage adjustment screw clockwise to move point of impact to the right (R). (Figure 2.2 and 2.3) if you encounter resistance.





Turn windage screw counter-clockwise to move point of impact to the left. Elevation adjustments dial (FIGURE 2.2) Turn elevation adjustment screw (FIGURE 2.2) clockwise to move point of impact up (U). Turn elevation adjustment screw (FIGURE 2.2) counter-clockwise to move point of impact down. 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. Ensure the sight is securely installed on the weapon and retighten the screw if necessary.

MAINTENANCE

- **CAUTION** Water infiltration will destroy the LED
- **CAUTION** If you need to reuse the cleaning cloth you used to clean a Window, make sure the cloth is clean.
- **CAUTION** Clean only with MECANIK Optical Cleaning Liquid. Your optic should be thoroughly cleaned and the battery must be removed before storage. Make sure that the storage area is humidity-free, and both the lens and the LED frame have no dust particles stuck on them before storage. Never clean your optic with any type of gun oil.

Danger – Fire Hazard

Risk of injury due to fire, explosion or leakage. Do not disassemble, charge, crush or expose to fire or high temperatures. Do not mix battery brands or mix chargeable and non-chargeable batteries. Warning – Coin Lithium batteries are not interchangeable. Both the diameter and thickness can vary based on the battery designation. While some device battery compartments may be sized in a way that different battery types can fit in the compartment, the capacities will vary by size. Only use the cell designation specified by the manufacturer of your device or identified in the list provided above.

Danger – Battery Hazards

KEEP OUT OF REACH OF CHILDREN. Swallowing a battery may lead to serious injury or death in as little as 2 hours due to chemical burns and potential perforation of the esophagus. If ingestion is suspected immediately call poison control at (800) 222-1222. Batteries also present a choking hazard for children and pets. Keep in original package until ready to use. Properly dispose of used batteries immediately per state or battery manufacturer guidelines.

CLEANING OF EXTERIOR SURFACES

To clean the outer surfaces of the device, perform the following operations in order;

- Clean the exterior surfaces from dirt and dust.
- Clean the exterior surfaces by moistening a clean lint-free cloth with warm water.

LENS CLEANING

Remove all jewelry from arms and fingers before cleaning. Cleanse your hands of skin oils by washing them carefully. Do not clean if the temperature of the cleaning environment is lower than 10°C. MECANIK optical sights require very little maintenance apart from periodic cleaning of their Lenses. If there are visible particles on the lens, clean it with an optical cleaning brush. Do not touch the lens with your finger. You can then clean the lens with a soft, dry cloth. For a more effective cleaning, you can clean your lens with 2 drops of MECANIK Optical Cleaning liquid dropped on the lens cleaning cloth.

MECHANIK OPTIC GLOBAL WARRANTY POLICY (USA & CANADA EXCLUDED)

MECANIK LIMITED LIFETIME WARRANTY FOR SIGHT HOUSING THREE-YEAR OPTIC AND LED WARRANTY

This warranty is provided by MECANIK for Mecanik Optics and is an agreement by and between MECANIK and purchaser. MECANIK and/or MECANIK Importer / Distributer (MID) is the certified service provider of MECANIK MO2 in your country. Congratulations on purchasing your MECANIK MO2 Reflex sight. Your MECANIK optic is covered by our Limited Lifetime Warranty Policy. MECANIK will repair defects in material or workmanship associated with the optic without charge to the original purchaser for as long as you own the optic. (This agreement is not transferable and only applies to the original retail purchaser upon presentation of proof of purchase.) This Limited Lifetime Warranty only applies to the metal product housing, and does not apply to the optic and/or illumination system(s). The optic glass and illumination system (electronics and LED) are covered by a 3-year limited warranty. In the event that a warranty-covered defect is found, we will repair or replace the product with a MECANIK product of equal or greater value. MECANIK/MID reserves the right to substitute the product for similar items if the model returned is unavailable. **THIS IS A REPAIR OR REPLACE WARRANTY, YOUR SOLE REMEDY FOR A DEFECT IN MATERIALS OR WORKMANSHIP OF A MECANIK OPTIC IS THE REPAIR OF PARTS OR REPLACEMENT OF THE OPTIC** Please visit www.MECANIK.com and complete the Product Registration Form within 30 days of purchase to register your MECANIK optic. Proof of purchase, including a receipt or invoice, must be provided with your registration and with any warranty claim. To make a repair claim, visit www.MECANIK.com and complete the information for instructions on how to return your optic. Do not return your MECANIK Optic for service without prior authorization.

LIMITATIONS OF WARRANTY

This warranty does not cover loss, theft, deliberate damage, accidental damage, corrosion, neglect, abuse or unreasonable use, misuse, defects or damage resulting from alterations or modifications to the optic, disassembly beyond the instructions located in the product's manual (where applicable), normal or ordinary wear and tear, criminal misuse, negligence, use under the influence of drugs or alcohol, or cosmetic damage that does not hinder the performance of the optic. This warranty is void if the product has been misused, modified, neglected, or disassembled prior to its return. The included batteries are not covered under the Limited Lifetime Warranty.

The MECANIK limited lifetime warranty is voided if any of the following occurs:

1. If the product is not properly registered,
2. If the instructions in the manual are not followed,
3. If the product has been altered, misused, abused, modified, neglected, or disassembled prior to its return,
4. If the product is lost or stolen,
5. If a proof of original purchase receipt is not provided,
6. MECANIK MO2 used for range rentals or other similar programs are not eligible,
7. If interfaces other than Official Canik Accessory program are used,

8. If the zeroing and assembly instructions in the manual are not followed,
9. If a tool other than the one provided by MECANIK is used for assembly purposes and damage is caused consequently,
10. If damage occurs in the lens caused by cleaning with something other than the provided cleaning cloth,
11. If improper, recharged or corroded batteries have been used in the optic.

To the full extent permissible by applicable law, any importer, distributor or retailer, and their employees, agents, distributors and partners do not make, and are not entitled or authorized to make, any warranty of any kind, express or implied, with respect to the MECANIK MO2 optic, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The only limited warranty provided is from MECANIK, pursuant to the terms and limitations stated herein. Nothing contained herein shall be interpreted as an implied or express warranty on behalf of MECANIK beyond the terms above.

LIMITATION OF LIABILITY

TO THE FULLEST EXTENT ALLOWABLE BY LAW, MECANIK DISCLAIMS ALL IMPLIED WARRANTIES AND MAKES NO OTHER EXPRESS WARRANTIES. MECANIK SHALL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES THAT RESULT FROM THE PERFORMANCE AND USE OF THE PRODUCTS, EVEN IF MECANIK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Please note: MECANIK reserves the right to make substitutions on warranty coverage for any reason, including but not limited to available items. If MECANIK/MID determines that the optic is not repairable, we will replace the optic with an item of similar features and product class at MECANIK's sole determination and at no replacement cost to you.

WARRANTY SERVICE PROCEDURE

Please visit www.MECANIK.com and complete the Product Registration Form within 30 days of purchase to register your MECANIK optic. Proof of purchase, including a receipt or invoice, must be provided with your registration and with any warranty claim.

To make a repair claim, visit www.MECANIK.com and complete the information for instructions on how to return your optic. Do not return your MECANIK Optic for service without prior authorization. An Authorized Representative can determine if factory service is required and how to proceed.

AUTHORIZED WARRANTY REPAIR FACILITY

If your MECANIK optic must be returned to the authorized warranty repair facility at MECANIK, you will be responsible to pay the freight charges to MECANIK/MID. Before any item is returned to MECANIK/MID, you must get a Return Authorization (RA) number from us. MECANIK optics returned to MECANIK/MID without a Return Authorization Number (RAN) may be denied warranty service.

When the MECANIK optic is received by MECANIK/MID it will be inspected to determine if it is a proper claim for warranty repair. MECANIK/MID will pay the freight charges to return the repaired item to the owner.

MECANIK OPTIK GLOBAL WARRANTY POLICY (USA & CANADA EXCLUDED)

MECANIK LIMITED LIFETIME WARRANTY FOR SIGHT HOUSING THREE-YEAR OPTIC AND LED WARRANTY

This warranty is provided by MECANIK A.S.(MECANIK) for Mecanik Optics and is an agreement by and between MECANIK A.S. and purchaser. CENTURY ARMS is the certified service provider of MECANIK MO2 in the USA. Congratulations on purchasing your MECANIK MO2 Reflex sight. Your MECANIK optic is covered by our Limited Lifetime Warranty Policy. MECANIK will repair defects in material or workmanship associated with the optic without charge to the original purchaser for as long as you own the optic. (This agreement is not transferable and only applies to the original retail purchaser upon presentation of proof of purchase.) This Limited Lifetime Warranty only applies to the metal product housing, and does not apply to the optic and/or illumination system(s). The optic glass and illumination system (electronics and LED) are covered by a 3 year limited warranty. In the event that a warranty-covered defect is found, we will repair or replace the product with a MECANIK product of equal or greater value. MECANIK reserves the right to substitute the product for similar items if the model returned

is unavailable. THIS IS A REPAIR OR REPLACE WARRANTY, YOUR SOLE REMEDY FOR A DEFECT IN MATERIALS OR WORKMANSHIP OF A MECANIK OPTIC IS THE REPAIR OF PARTS OR REPLACEMENT OF THE OPTIC Please visit www.mecanik.com and complete the Product Registration Form within 30 days of purchase to register your MECANIK optic. Proof of purchase, including a receipt or invoice, must be provided with your registration and with any warranty claim. To make a repair claim, visit www.mecanik.com and complete the information for instructions on how to return your optic. Do not return your MECANIK Optic for service without prior authorization.

LIMITATIONS OF WARRANTY

This warranty does not cover loss, theft, deliberate damage, accidental damage, corrosion, neglect, abuse or unreasonable use, misuse, defects or damage resulting from alterations or modifications to the optic, disassembly beyond the instructions located in the product's manual (where applicable), normal or ordinary wear and tear, criminal misuse, negligence, use under the influence of drugs or alcohol, or cosmetic damage that does not hinder the performance of the optic. This warranty is void if the product has been misused, modified, neglected, or disassembled prior to its return. The included batteries are not covered under the Limited Lifetime Warranty.

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4. If the product is lost or stolen,
5. If a proof of original purchase receipt is not provided,
6. MECANIK MO2 used for range rentals or other similar programs are not eligible,
7. If interfaces other than Official Canik Accessory program are used,
8. If the zeroing and assembly instructions in the manual are not followed,
9. If a tool other than the one provided by MECANIK is used for assembly purposes and damage is caused consequently,
10. If damage occurs in the lens caused by cleaning with something other than the provided cleaning cloth,
11. If improper, recharged or corroded batteries have been used in the optic.

To the full extent permissible by applicable law, any importer, distributor or retailer, and their employees, agents, distributors and partners do not make, and are not entitled or authorized to make, any warranty of any kind, express or implied, with respect to the Mecanik MO2 optic, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The only limited warranty provided is from MECANIK, pursuant to the terms and limitations stated herein. Nothing contained herein shall be interpreted as an implied or express warranty on behalf of MECANIK beyond the terms above.

LIMITATION OF LIABILITY

TO THE FULLEST EXTENT ALLOWABLE BY LAW, MECANIK A.S. DISCLAIMS ALL IMPLIED WARRANTIES AND MAKES NO OTHER EXPRESS WARRANTIES. MECANIK SHALL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES THAT RESULT FROM THE PERFORMANCE AND USE OF THE PRODUCTS, EVEN IF MECANIK™ HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Please note: MECANIK reserves the right to make substitutions on warranty coverage for any reason, including but not limited to available items. If Mecanik A.S. determines that the optic is not repairable, we will replace the optic with an item of similar features and product class at MECANIK's sole determination and at no replacement cost to you.

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with any warranty claim. To make a repair claim, visit www.mecanik.com and complete the information for instructions on how to return your optic. Do not return your MECANIK Optic for service without prior authorization. An Authorized Representative can determine if factory service is required and how to proceed.

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If your MECANIK optic must be returned to the authorized warranty repair facility at Century Arms, you will be responsible to pay the freight charges to Century Arms. Before any item is returned to Century Arms, you must get a Return Authorization (RA) number from us. MECANIK optics returned to Century Arms without a Return Authorization Number (RAN) may be denied warranty service. When the MECANIK optic is received by Century Arms it will be inspected to determine if it is a proper claim for warranty repair. MECANIK will pay the freight charges to return the repaired item to the owner.



Documents / Resources

	MECANIK MO2 Versatile Reflex Sight [pdf] User Manual MO2 Versatile Reflex Sight, MO2, Versatile Reflex Sight, Reflex Sight, Sight
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References

-  [MECANIK](#)