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› Votatu M4L-B Blue Laser Sight and V2 Fiber Optic Iron Sights User Manual

## VOTATU M4L-B

# Votatu M4L-B Blue Laser Sight and V2 Fiber Optic Iron Sights User Manual

Model: M4L-B

Brand: VOTATU

## 1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your Votatu M4L-B Blue Laser Sight and V2 Fiber Optic Iron Sights. Please read this manual thoroughly before using the product to ensure proper function and safety.



Figure 1: Votatu M4L-B Blue Laser Sight and V2 Fiber Optic Iron Sights. This image displays the Votatu M4L-B blue laser sight and the accompanying V2 fiber optic iron sights. The laser sight is designed for M-Lok rails, while the iron sights are compatible with Picatinny rails.

## 2. SAFETY INFORMATION

### **WARNING: Laser Radiation**

- Do not stare directly into the laser beam.
- Avoid direct eye exposure to the laser.

- This product contains a Class IIIA Blue Laser with a power output of  $\leq 5\text{mW}$  and a wavelength of 450nm.
- Always follow local laws and regulations regarding laser devices.
- Keep out of reach of children.

Always handle firearms safely. Ensure the firearm is unloaded and pointed in a safe direction before installing or adjusting any accessories.

### **3. PACKAGE CONTENTS**

Please verify that all items are present in your package:

- Votatu M4L-B Blue Laser Sight (1)
- V2 Fiber Optic Iron Sights (Front and Rear) (1 set)
- Magnetic USB Charging Cable (1)
- Hex Wrench (1)
- User Manual (This document)

### **4. PRODUCT OVERVIEW**

#### **4.1. M4L-B Blue Laser Sight**

# HIGH-STRENGTH ALUMINUM MATERIAL



Figure 2: M4L-B Blue Laser Sight Components. An annotated view of the Votatu M4L-B laser sight, pointing out key components such as the beam emitter, elevation adjustment, magnetic charge port, switch, charging indicator, and locking screws. The device is constructed from high-strength aluminum.

- **Beam Emitter:** Projects the blue laser.
- **Elevation Adjustment:** Adjusts the vertical position of the laser beam.
- **Magnetic Charge Port:** For connecting the USB charging cable.
- **Switch:** Activates and deactivates the laser.
- **Charging Indicator:** Shows charging status.
- **Windage Adjustment:** Adjusts the horizontal position of the laser beam.

- **Locking Screws:** Secure the laser sight to the M-Lok rail.

## 4.2. V2 Fiber Optic Iron Sights

# DUAL REAR SIGHT APERTURES FOR CQB AND PRECISION OPTIONS

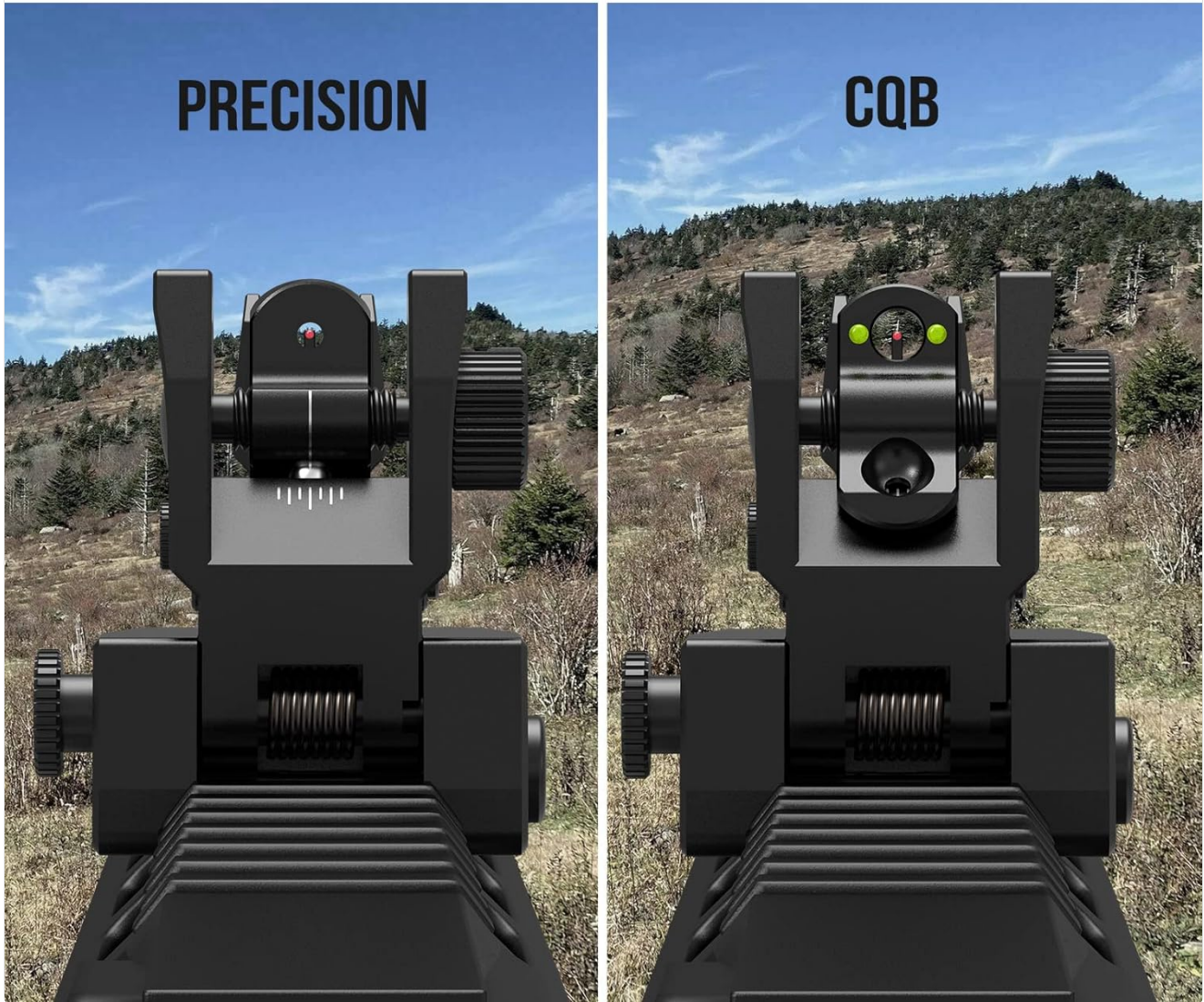


Figure 3: V2 Fiber Optic Iron Sights. Multiple views of the Votatu V2 fiber optic iron sights, emphasizing their solid construction and precision machining designed to prevent wobble and ensure stability.

- **Front Sight:** Equipped with a red fiber optic dot.
- **Rear Sight:** Equipped with green fiber optic dots and dual apertures (precision and CQB).
- **Windage Adjustment Knob (Rear Sight):** For horizontal adjustment.
- **Elevation Adjustment Knob (Front Sight):** For vertical adjustment.

## 5. SETUP AND INSTALLATION

## 5.1. M4L-B Blue Laser Sight Installation

The M4L-B laser sight is designed for M-Lok rail systems.

1. Identify the desired M-Lok slot on your firearm's rail.
2. Align the laser sight's T-nuts with the M-Lok slots.
3. Push the laser sight firmly into the rail until the T-nuts are seated.
4. Using the supplied hex wrench, tighten the locking screws on the laser sight. Ensure it is securely fastened and does not wobble.



Figure 4: Laser Sight Installation. This image illustrates the simple installation process for the Votatu M4L-B laser sight, showing how to install/uninstall, tighten, and lock the T-nut onto the rail.

# ULTRA LOW-PROFILE AND ERGONOMICS DESIGN



Figure 5: Mounted Laser Sight. The Votatu M4L-B blue laser sight is shown mounted on an M-Lok rail, highlighting its ultra low-profile and ergonomic design for seamless integration.

**COMPATIBLE WITH  
ALL SURFACE OF  
M RAIL**

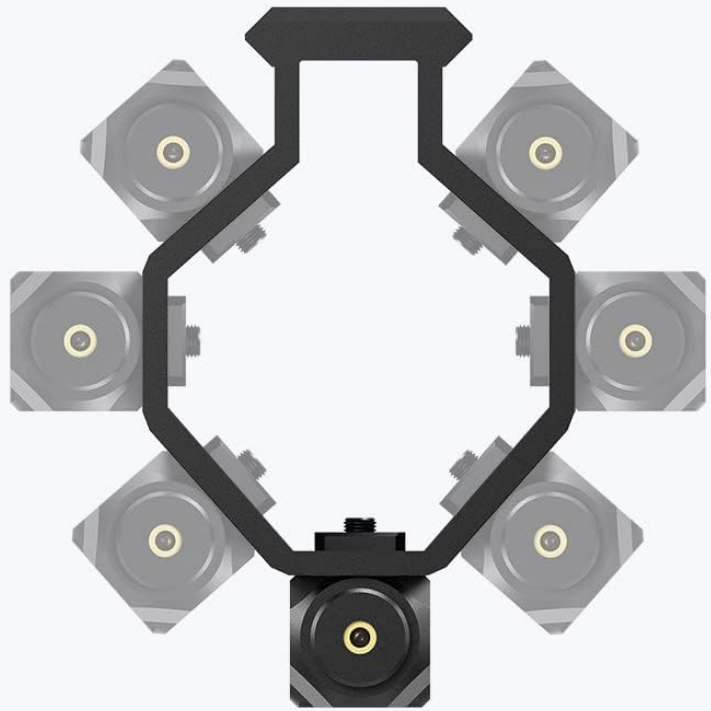


Figure 6: M-Lok Compatibility. This diagram demonstrates the versatile compatibility of the Votatu M4L-B laser sight with various surfaces of an M-Lok rail, allowing flexible mounting options.

## 5.2. V2 Fiber Optic Iron Sights Installation

The V2 iron sights are compatible with Picatinny rail systems.

1. Identify the desired Picatinny rail slots for the front and rear sights.
2. Loosen the mounting screws on the sights.
3. Slide the sights onto the rail.

4. Tighten the mounting screws until the sights are firmly secured. Ensure they do not move under recoil.

## 6. OPERATION

### 6.1. M4L-B Blue Laser Sight Operation

- **Activating the Laser:** Press the switch button located on the side of the laser sight to turn the laser ON or OFF.
- **Adjusting the Laser:**
  - **Windage Adjustment:** Use a small flathead screwdriver or the edge of a coin to turn the windage adjustment screw (located on the side) to move the laser horizontally (left/right).
  - **Elevation Adjustment:** Use a small flathead screwdriver or the edge of a coin to turn the elevation adjustment screw (located on the top) to move the laser vertically (up/down).
- **Zeroing:** It is recommended to zero the laser sight at your preferred distance (e.g., 25 yards or 50 yards) by aligning the laser dot with your point of impact.

### 6.2. V2 Fiber Optic Iron Sights Operation

- **Flipping Up Sights:** The spring-loaded flip-up iron sights can be easily activated by pressing the push button on each sight.
- **Selecting Rear Aperture:** The rear sight features dual apertures. Rotate the aperture disc to select between the larger aperture for close-quarters battle (CQB) or the smaller aperture for precision shooting.
- **Adjusting Sights (Tool-Free):**
  - **Rear Sight Windage:** Turn the windage adjustment knob on the rear sight to move the point of impact horizontally.
  - **Front Sight Elevation:** Turn the elevation adjustment knob on the front sight to move the point of impact vertically.
- **Fiber Optics:** The built-in green and red fiber optic dots enhance visibility and aid in rapid target acquisition, especially in outdoor daylight environments.

## BUILT-IN OPTICAL FIBER DOTS FOR RAPID TARGET FOCUS AT OUTDOOR DAYLIGHT ENVIRONMENT



Figure 7: Iron Sight Adjustments. The image demonstrates the tool-free adjustment capabilities of the Votatu V2 fiber optic iron sights, showing how to adjust both windage and elevation.

# SOLID CONSTRUCTION AND PRECISION MACHINING PREVENTS WOBBLE ISSUES



Figure 8: Dual Rear Apertures. This image highlights the dual rear sight apertures of the Votatu V2 fiber optic iron sights, offering options for both close-quarters battle (CQB) and precision shooting.

# NO TOOL NEEDED TO ADJUST

Rear Sight Windage and Front Sight Elevation are Adjustable **without other tools.**



Figure 9: Fiber Optic Sight Picture. A view through the Votatu V2 fiber optic iron sights, showing the built-in optical fiber dots aligned with a target, designed for rapid target acquisition in outdoor daylight conditions.

## 7. CHARGING THE M4L-B LASER SIGHT

The M4L-B laser sight features a built-in magnetic USB rechargeable battery.

1. Locate the magnetic charge port on the laser sight (refer to Figure 2).
2. Connect the supplied magnetic USB charging cable to the charge port. The cable will snap into place magnetically.
3. Connect the other end of the USB cable to a standard USB power source (e.g., computer USB port, wall adapter).
4. The charging indicator light will illuminate during charging and change color or turn off when fully charged.

*Note: No removal of the laser sight from the rail is required for charging.*

## 8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to wipe down the laser sight and iron sights. For stubborn dirt, a slightly damp cloth can be used, followed by immediate drying. Avoid abrasive cleaners or solvents.
- **Storage:** Store the product in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care (Laser Sight):** For optimal battery life, avoid fully discharging the battery frequently. Recharge as needed.
- **Inspection:** Periodically check all screws and mounting points to ensure they remain tight.

## 9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser does not turn on.	Battery is low or depleted.	Recharge the laser sight using the magnetic USB cable.
Laser beam is dim.	Low battery.	Recharge the laser sight.
Laser or sights wobble after installation.	Mounting screws are loose.	Ensure all locking/mounting screws are tightened securely with the hex wrench.
Cannot zero the laser/sights.	Incorrect adjustment procedure or damaged unit.	Review the adjustment instructions in Section 6. If problem persists, contact customer support.

## 10. SPECIFICATIONS

Feature	Detail
Product Name	Votatu M4L-B Blue Laser Sight & V2 Fiber Optic Iron Sights
Model	M4L-B
Brand	VOTATU
Laser Class	IIIA
Laser Output Power	≤5mW
Laser Wavelength	450nm (Blue)
Laser Visibility (Day)	Up to 100 meters
Laser Visibility (Night)	Up to 1500 meters
Iron Sight Fiber Optics	Green (Rear), Red (Front)
Laser Mounting Type	M-Lok Rail
Iron Sight Mounting Type	Picatinny Mount
Material	High-strength Aluminum
Power Source (Laser)	Built-in Magnetic USB Rechargeable Battery

## 11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact VOTATU customer service directly. Contact details are typically available on the manufacturer's official website or through your point of purchase.

*Note: Specific warranty terms and conditions may vary and are not detailed in this general user manual.*