

BEITESI 50mw-line-1pack

BEITESI Red Line Laser Module (50mw-line-1pack) Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your BEITESI Red Line Laser Module, model 50mw-line-1pack. Please read these instructions carefully before installation and operation. This compact laser module is designed for various applications requiring a precise red line projection, such as targeting, alignment, and signal equipment. It features a red light source, Class II output power (<1mW), operates on 3V-5V DC, and has an adjustable focal length.

2. SAFETY INFORMATION

WARNING: Laser Radiation. Avoid direct eye exposure.

- This product emits Class II laser radiation. Do not stare directly into the laser beam.
- Do not point the laser at people, animals, or reflective surfaces.
- Keep the laser module out of reach of children.
- Use only with the specified voltage range of 3V-5V DC. Using incorrect voltage may damage the device and pose a safety risk.
- Do not attempt to disassemble, modify, or repair the laser module. This can lead to hazardous radiation exposure and will void the warranty.
- Ensure proper ventilation if operating for extended periods in an enclosed space.

3. SETUP

3.1 Power Connection

Connect the red wire to the positive (+) terminal and the black wire to the negative (-) terminal of a stable 3V-5V DC power source. Ensure correct polarity to prevent damage to the module.



Image: The BEITESI Red Line Laser Module showing its compact design and power connection wires (red for positive, black for negative).

3.2 Mounting

Secure the laser module in your desired application using appropriate mounting hardware (not included). Ensure the module is firmly fixed to prevent movement during operation.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Once correctly connected to a 3V-5V DC power source, the laser module will automatically emit a red line. To turn off the laser, disconnect the power supply.

4.2 Adjusting Focal Length

The laser module features an adjustable focal length to achieve the desired line sharpness and focus at various working

distances. To adjust, gently rotate the front lens assembly of the module clockwise or counter-clockwise until the laser line appears clear and focused on your target surface.



Image: An exploded view illustrating the internal components of the laser module, highlighting the adjustable lens mechanism for focal length control.

4.3 Application Examples

The red line laser module can be integrated into various systems for precise alignment and targeting. Below are examples of its application:

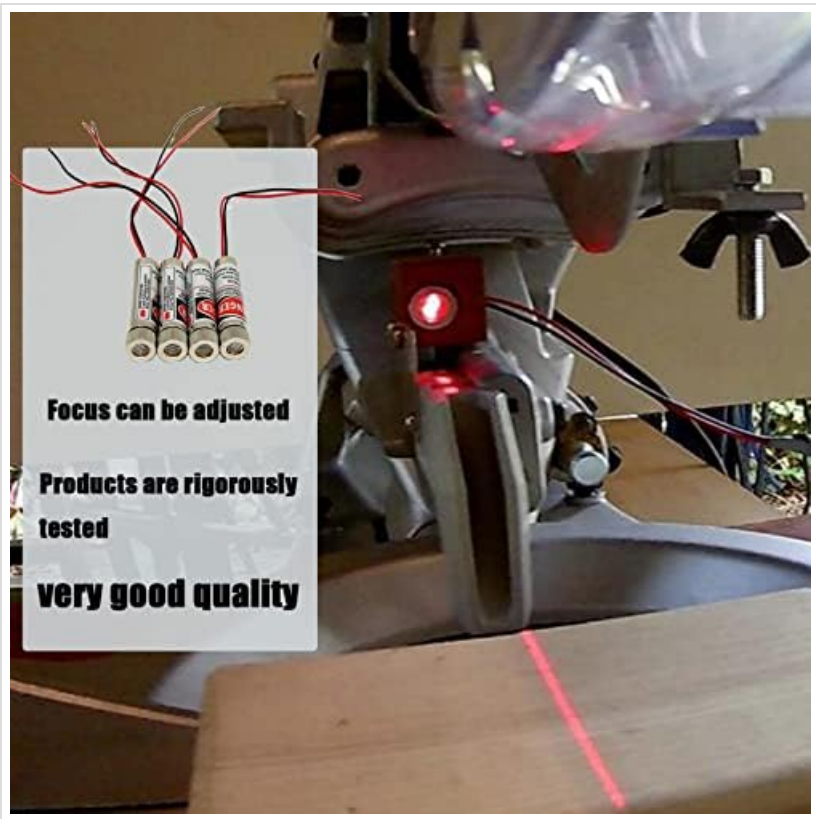


Image: The laser module used in a workshop setting, projecting a red line onto a piece of wood for accurate cutting alignment with a saw.

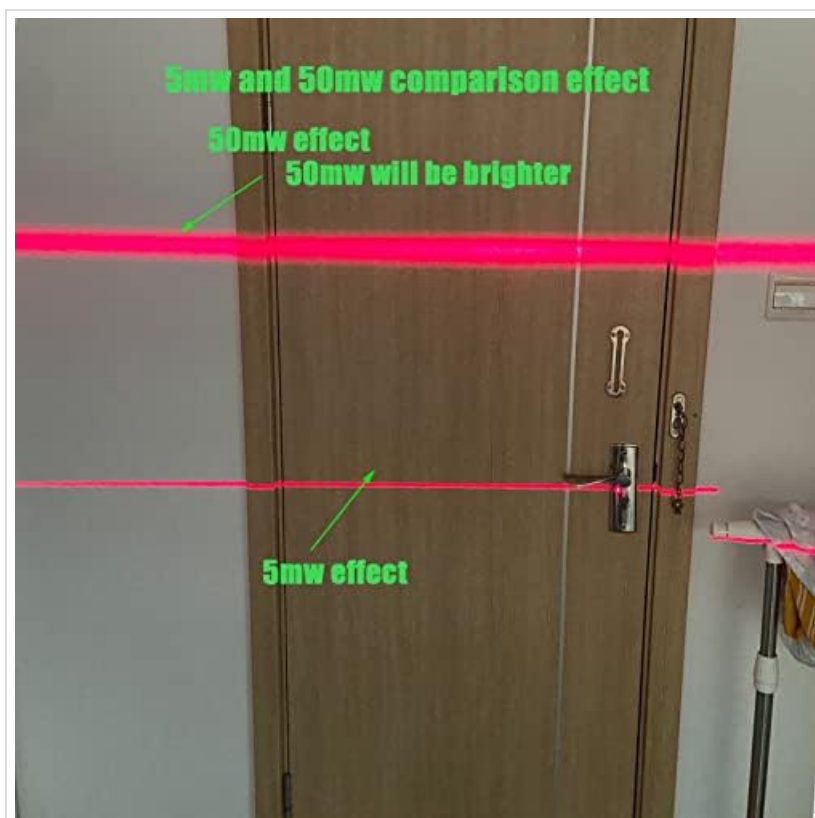


Image: The laser module projecting a distinct red line across a door and wall, showcasing its ability to create a visible reference line for various tasks.

5. MAINTENANCE

- **Cleaning:** Keep the laser lens clean. Use a soft, lint-free cloth to gently wipe the lens if dust or debris accumulates. Do not use abrasive cleaners, solvents, or excessive force, as this may scratch the lens.
- **Storage:** Store the module in a dry, cool environment away from direct sunlight, high humidity, and extreme temperatures.
- **Inspection:** Periodically inspect the power wires for any signs of damage, fraying, or loose connections. Address any issues promptly to ensure safe operation.

6. TROUBLESHOOTING

- **No Laser Output:**
 - Check power connections. Ensure the red wire is connected to positive (+) and the black wire to negative (-).
 - Verify that the power source is supplying voltage within the 3V-5V DC range.
 - Inspect the power wires for any breaks or loose connections.
- **Dim or Unfocused Line:**
 - Adjust the focal length by gently rotating the front lens assembly until the line is sharp.
 - Clean the laser lens if it appears dirty or smudged.
 - Ensure the power supply is providing adequate and stable voltage.

7. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	BEITESI
Model	50mw-line-1pack
Light Source	Red Laser
Output Power	Class II, <1mW
Voltage	3V-5V DC
Size	12mm (diameter) x 35mm (length)
Colour	Red
Style	Adjustable, Laser
Operation Mode	Automatic
UPC	793466864452
Unit Count	1 Set
Manufacturer	BEITESI



Image: A detailed diagram illustrating the physical dimensions of the BEITESI Red Line Laser Module, measuring 12mm in diameter and 35mm in length.

8. WARRANTY AND SUPPORT

8.1 Warranty

This BEITESI product comes with a **1-year manufacturer's warranty** from the date of purchase, covering defects in

materials and workmanship under normal use. The warranty does not cover damage caused by misuse, unauthorized modification, accident, or improper installation.

8.2 Support

For technical assistance, troubleshooting, or warranty claims, please contact BEITESI customer support. Please have your product model (50mw-line-1pack) and purchase information ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question