

[Manuals.plus](#) /

› [YILUBAO](#) /

› User Manual: YILUBAO 532nm-100 Green Laser Diode Module Dot Lights w/ 12V Adapter 33x55mm

YILUBAO 532nm

User Manual: YILUBAO 532nm-100 Green Laser Diode Module

Model: 532nm

1. PRODUCT OVERVIEW

The YILUBAO 532nm-100 Green Laser Diode Module is a compact and powerful laser light source designed for various industrial, laboratory, and DIY applications. It emits a visible green laser dot at a wavelength of 532nm and comes with a 12V DC power adapter for convenient operation. The module features an aerospace aluminum housing, K9 glass lenses, and an integrated constant current driver board, ensuring stable performance and durability. A built-in heat sink fan allows for extended working hours.



Image 1.1: The 532nm-100 Green Laser Diode Module, its 12V power adapter, and an illustration of its green laser output.

2. SAFETY INFORMATION

WARNING: LASER RADIATION. AVOID DIRECT EYE EXPOSURE.

This product emits laser radiation. Improper use or direct exposure to the laser beam can cause severe eye injury or blindness. Always adhere to the following safety precautions:

- Never look directly into the laser aperture or at the reflected beam.
- Use appropriate laser safety goggles when operating the module.
- Ensure the laser is pointed away from people, animals, and reflective surfaces.
- Keep out of reach of children.
- Do not disassemble or modify the laser module. Unauthorized modifications can lead to hazardous radiation exposure.
- Operate in a controlled environment where accidental exposure is minimized.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x 532nm Green Laser Diode Module

- 1 x 12V DC Power Adapter (US-plug, EU-plug, or UK-plug, shipped randomly)



Image 3.1: The laser module and its accompanying 12V power adapter.

4. SETUP

Follow these steps to set up your laser module:

1. **Positioning:** Place the laser module on a stable, flat surface in your desired operating location. Ensure the area is clear of obstructions and reflective materials.
2. **Power Connection:** Connect the DC plug from the 12V power adapter to the power input jack on the laser module's cable. The DC cable length is approximately 1.2 meters.



Image 4.1: Detail of the DC power input jack (5.5*2.1mm) on the laser module's cable.

3. **Power Supply:** Plug the 12V power adapter into a suitable wall outlet.
4. **Mounting (Optional):** If permanent installation is required, the module can be mounted using the screw holes on its base. Refer to the "Specifications" section for mounting dimensions.

5. OPERATING INSTRUCTIONS

Once the module is set up, operation is straightforward:

1. **Power On:** After connecting the power adapter to the module and plugging it into the wall outlet, the laser module will automatically power on and emit a green laser dot.
2. **Usage:** Direct the laser dot to your desired target. Ensure no direct eye exposure occurs.
3. **Power Off:** To turn off the laser, simply unplug the 12V power adapter from the wall outlet or disconnect the DC plug from the module.

Note on Continuous Operation: The module is equipped with a powerful heat sink fan for extended operation. However, to ensure optimal lifespan (rated at 8000 hours), it is recommended to rest the module for 1 minute after every 1 hour of continuous use.

6. MAINTENANCE

Proper maintenance will help prolong the life and performance of your laser module:

- **Cleaning:** Keep the laser aperture and lens clean. Use a soft, lint-free cloth and, if necessary, a small

amount of lens cleaning solution. Avoid abrasive materials that could scratch the lens.

- **Heat Management:** Ensure the heat sink fins and fan are free from dust and debris to allow for proper airflow and cooling. Periodically clean the fan blades gently with compressed air.
- **Storage:** When not in use, store the laser module in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your laser module, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Laser does not turn on.	• Power adapter not connected properly. • Wall outlet has no power. • Faulty power adapter or module.	• Ensure all connections are secure. • Test the wall outlet with another device. • Contact customer support if connections are secure and power is available.
Laser beam is dim or flickering.	• Dirty lens. • Module overheating. • Unstable power supply.	• Clean the laser lens. • Ensure proper ventilation and clean the fan/heat sink. Allow module to cool down. • Verify power supply is stable 12V DC.
Module feels excessively hot.	• Blocked heat sink or fan. • Prolonged continuous operation.	• Clean the heat sink and fan. • Adhere to the recommended 1-minute rest after 1 hour of operation.

If the problem persists after trying these solutions, please contact YILUBAO customer support.

8. SPECIFICATIONS

Detailed technical specifications for the 532nm Green Laser Diode Module:

Parameter	Value
Brand	YILUBAO (MTO-Laser)
Model	532nm-100
Wavelength	532nm (Green)
Output Power	100mW
Power Supply	DC 12V
Working Current	260mA
Spot Shape	Dot
Focusable	No (Non-adjustable focus)

Parameter	Value
Output Wave Band	Visible Light
Module Material	Aerospace Aluminum
Lens Material	K9 Glass, PVC Focus Lens
Operating Temperature	-40°C to 75°C (-40°F to 167°F)
Working Medium	Semiconductor
Working Life	8000 hours (with recommended rest periods)
Dimensions (Module)	33mm x 55mm
DC Cable Length	1.2 meters
Structural Features	Aluminum shell + laser diode + K9 glass lenses + Constant current driver board
Bulb Features	Constant current driver board, Heat management with fan
Mounting Type	Surface Mount, Pole Mount



Image 8.1: Dimensional drawing of the laser module, indicating mounting hole positions and sizes (e.g., M6, 2.5cm).

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the seller or the official YILUBAO website. Specific warranty terms and conditions may vary depending on your region and point of purchase. For technical assistance or troubleshooting beyond this manual, please contact the seller directly or visit the YILUBAO store on Amazon: [YILUBAO Store](#)

