

LASER TREE LT-40W-F23 TTL Laser Head Blue Light Module **User Manual**

Home » LASER TREE » LASER TREE LT-40W-F23 TTL Laser Head Blue Light Module User Manual



Contents

- 1 LASER TREE LT-40W-F23 TTL Laser Head Blue Light Module User
- **2 LASER MODULE INTRODUCTION**
- **3 LASER MODULE CONNECTION DESCRIPTION**
- **4 LASER MODULE REFERENCE SETTINGS**
- **5 PRECAUTIONS AND MAINTENANCE**
 - 5.1 Maintenance
- 6 Documents / Resources
 - **6.1 References**



LASER TREE LT-40W-F23 TTL Laser Head Blue Light Module User Manual

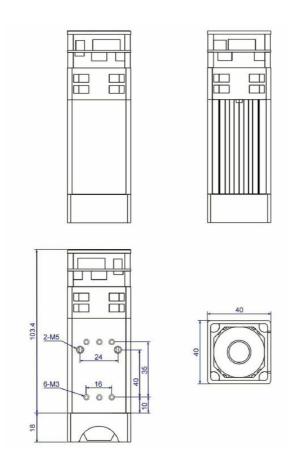


LASER MODULE INTRODUCTION

Parameters

Optical power:	5W (±1W)
Input:	12V 1.5-2A
Wavelength:	450nm (±10nm)
Focus length:	23mm
PWM modulation:	0/3-12V, 0-5kHz
Fan speed:	10000rpm
Operating temperature:	0-60°C
Interface:	XH2.54-3P Socket
Cable:	3PIN, 80cm
Material:	Aluminum alloy
Module weight:	230g
Function:	Engraving or Cutting

Outline dimension (Unit: mm)



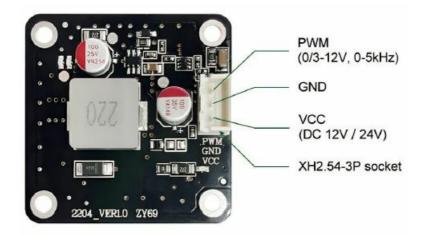
Standard configuration



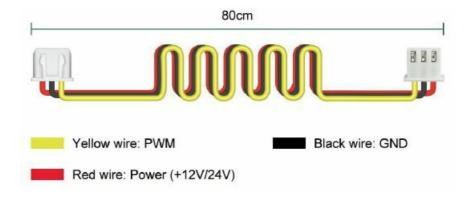
LASER MODULE CONNECTION DESCRIPTION

PIN Definition

· Laser module driver board



Cable



Driver adapter

- 1. CD Output A: 3PIN connector
- 2. Output B: 3PIN connector
- 3. Input A: 4PIN connector
- 4. Input B: 4PIN connector
- 5. Input C: 3PIN connector
- 6. Input D: 2PIN connector
- 7. DC Input: 12V or 24V power adapter
- 8. Power Switch:
 - EXT->External power supply
 - INT->Internal power supply
- 9. Power indicator: It is red when the power cable is connected correctly.
- 10. TTL/PWM indicator: It is green when the TTL/PWM cable is connected correctly.



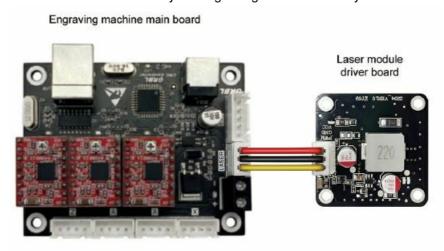
Connection

Please check whether the laser module is compatible with your engraving machine before connection.

- Check the voltage parameter of your engraving machine. Please ensure that your engraving machine voltage and laser module are matched.
- Check the port of the main control board on your engraving machine. Please find the PWM port, GND port and VCC port on the main board of your engraving machine. Then connect this laser module to the main board accordingly.

"A"&"B"are both compatible.

Connect the laser module to the main board of your engraving machine directly.



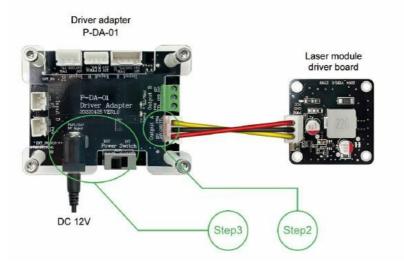
Only voltage is not matched.

The voltage parameter of your machine are not matched to the module.

Laser Module	Machine	Solutions
12V -	12V	Plug and Play
	24V	Driver Adapter + 12V Power Supply

- 1. Connect the cable of your engraving machine to the corresponding input connector on P-DA-01.
- 2. Connect the cable of the laser module to the Output A connector on P-DA-01.

3. Connect the 12V power adapter to the DC Input connector on P-DA-01. Push the switch to EXT position and the power is provided by external power adapter.



Only control board pin definition is not matched.

Situation 1: The definition of connector on the engraving machine main board is not pin-to-pin.

Please rearrange the wire sequence of the cable to make each wire is well matched with the pin definition on the main board.



- Red wire and yellow wire connection error
- · Red wire and yellow wire connection correctly

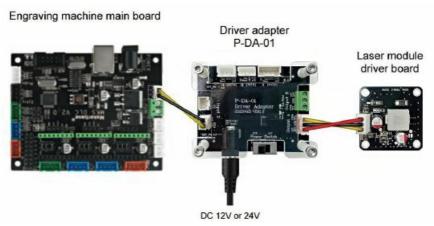
Situation 2: Please use P-DA-01 if the main board of your engraving machine is not 3pin, such as 2pin.

Laser Module	Machine	Solutions
3PIN -	2PIN	Driver Adapter
	Other pins	Driver Adapter

• Connect the cable of the your engraving machine to the corresponding input connector on P-DA-01.

• Connect the cable of the laser module to the Output A connector on P-DA-01.

Engraving machine main board

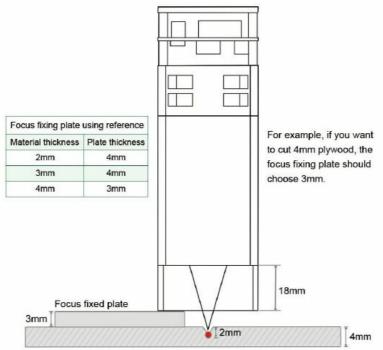


LASER MODULE REFERENCE SETTINGS

For cutting

The focal length of the L T-40W-F23 laser module is 23mm. When cutting, you only need to make the focus located a bit lower than the surface of materials.

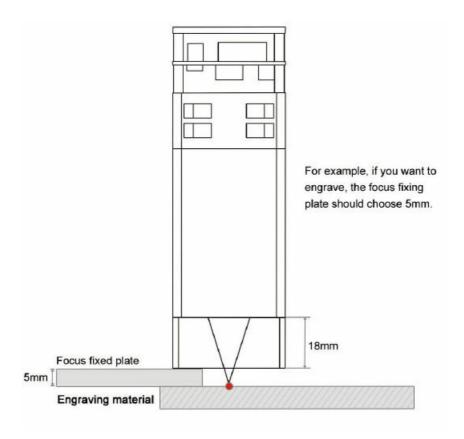
Reference settings for cutting



For engraving

When engraving, please ensure that the focus is located on the engraving material surface.

Reference settings for engraving



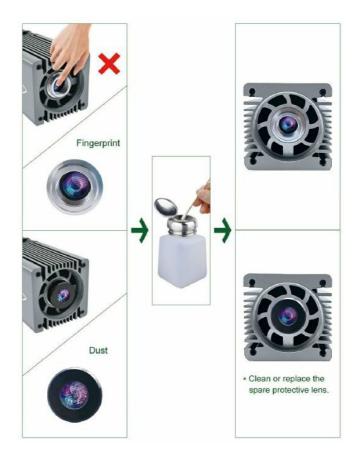
PRECAUTIONS AND MAINTENANCE

Precautions

- Laser can damage a person's skin. Please do not expose your skin directly to the laser.
- Please wear laser goggles to protect your eyes when you use this laser module.
- This laser module doesn't support hot plug, hot plug may cause damage to the laser module.

Maintenance

- When the laser module is not used for a long time, please ensure that the lens is not polluted by dust.
- When you replace the protective lens, please ensure that your operation will not pollut the lens. Finger prints or dust on the lens will weaken the output power of the laser module, or even damage the lens.
- When you find the cutting ability decreases, the lens might be not clean. Please use a clean alcohol swab to clean it according to the following figure.
- * For more information about maintenance, please contact us at lasertree@micost-optotech.com.



Enjoy pleasure of DIV

Wavelength: 450±10nm Focus Type: Fixed-focus

Laser Power: 5W

Complies with IEC 60825-1: 2014

MADE IN CHINA





LASER TREE LT-40W-F23 TTL Laser Head Blue Light Module [pdf] User Manual LT-40W-F23 TTL Laser Head Blue Light Module, LT-40W-F23, TTL Laser Head Blue Light Module, Laser Head Blue Light Module, Blue Light Module, Light Module, Module

References

• User Manual

Manuals+, Privacy Policy