Product Manual

01 // Parameters

Processor Architecture:	ARM 32-bit
Firmware:	GRBL 1.1F
Drive Unit:	A4988
Input Voltage:	12-24V DC 5A
Current Specifications:	Standard 1.042A; Maximum: 2.083A
Supported System:	Windows
Firmware Modification:	Not supported
Supported Software:	LaserGRBL/Lightburn/Candle (3-axis)/General Gcode Sender

02 // Precautions

- Please check whether the line sequence matches before connecting the control board, because if it does not match, it cannot be used, and the control board may even be burned.

- This control board is not a development board and the firmware cannot be customized and modified.

- Offline controller and computer data cable cannot be connected simultaneously, as it may lead to a connection conflict that prevents the control board from functioning properly.

03 // FAQ

Q: My GRBL control board cannot connect to the computer, what should I do?

A: Make sure the USB connection or serial port connection is normal, check whether the COM port settings are correct, and use appropriate control software to connect to the control board.

Q: Why does my CNC machine move inaccurately during operation?

A: It may be necessary to recalibrate the control board's stepper motor, limit switch, and acceleration settings. Check the mechanical parts to make sure there are no loose or damaged parts.

Q: What do the red and green LED indicators on the GRBL control board mean?

A: Typically, a red LED indicates power connection and a green LED indicates control board status (such as ready or running).

Q: After my CNC machine is started, the stepper motor makes abnormal noise. What should I do?

A: This may be caused by incorrect current settings. Readjust the current settings on the stepper motor driver to ensure proper motor operation.

Q: The control software I am using cannot connect to the GRBL control board correctly. What should I do?

A: Check whether the COM port settings are correct and ensure that the driver of the control board has been installed correctly. Try using different control software.

04 // Product Service

- ⊡ View the QR code for usage tutorials and after-sales support.
- ✉ Amazon@lunyee.com
- ✉ eBay@lunyee.com
- ✉ AliExpress@lunyee.com

Input Power + 48V -

Spindle + 48V -

775 Motor

X axis

Y1 axis

Y2 axis

Z axis

A axis

Motor Line Sequence
1A 1B 2A 2B

Laser PWM/12V-/12V+

PWM/GND

+12V-

2P+2P Laser

12V Output

External Driver
GND EN DIR- DIR+ PUL- PUL+

Input Power 12-24V

Laser 24V+/24V-/PWM

5V

X Limit

Y Limit

Z Limit

A Limit

Reset

H O L D

R U N

P R B

R S T

Offline

USB Type-C

The offline controller and computer data cable cannot be simultaneously connected and used.