

Operating Instructions for PSU-III-OEM Power Supply

Note: Only operate the laser after it reaches room temperature, to avoid damage from large temperature fluctuations.

1. Product features

- 1.1. Place the laser and power supply on a heat-conducting surface, such as a metal plate.
- 1.2. Make sure your local voltage is in the range shown on the panel.
- 1.3. TTL or Analogue external control signal interface.
- 1.4. Earphone Jack.

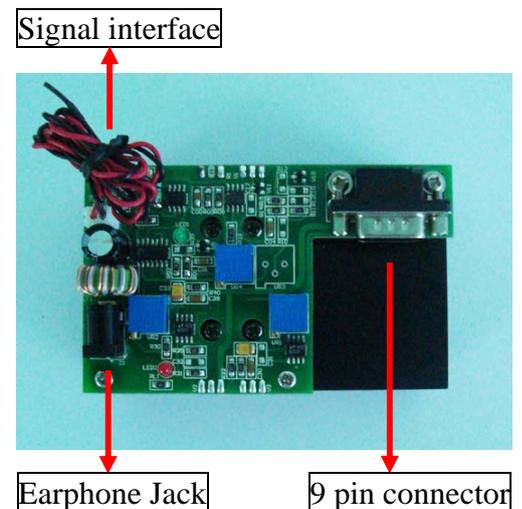
2. Operation

- 2.1. Attach the cord from the laser body firmly to the 9 pin connector, and fasten the screws of the connector.
- 2.2. Connect the plug of the black power supply (be sure it's the correct input voltage) to the "earphone jack" on the OEM circuit board.
- 2.3. Uncover the aperture.
- 2.4. Connect the earphone plug of the power supply to the earphone Jack of the PC board. The red LED turns on, then green LED turns on after five seconds, and the laser starts to work.
- 2.5. TTL and analog modulation are optional. As to the TTL or analog instructions, please refer to the "Notes for TTL Modulation" or "Notes for Analog Modulation".
- 2.6. To turn off the laser system: unplug the cord from the earphone jack.
- 2.7. Cover the aperture to keep dust from the optic path.

3. Warranty

- 3.1. The warranty is one year from the shipping date.
- 3.2. This warranty will not apply to those products which have been:
 - 3.2.1. Repaired or altered other than in accordance with the terms of this Agreement.
 - 3.2.2. Abused, misused, improperly handled in use or storage, or used in an unauthorized or improper manner or without following written procedures supplied by manufacturer.
 - 3.2.3. Original identification markings or labels have been removed, defaced or altered.
 - 3.2.4. Any other claims not arising directly from material defects in material or workmanship.

Avoid touching elements of PC board with your hands or other electric objects, otherwise PC board and laser may be damaged.



4. Laser safety

- 4.1. All lasers and laser light show systems have intrinsic dangers - even laser pointers! Observation of basic laser safety rules and the specific safety regulations of the jurisdiction in which you operate are essential.
- 4.2. Safety with high powered lasers is a critical issue that cannot be overlooked. Despite their brilliant beams and ability to burn, high power laser pointers and portable lasers are only a danger to your eyes. But the danger that lasers represent to your eyes is very serious. If the visual receptors in your eyes are damaged by a burning laser (or by longer exposures from non-burning lasers), they do not heal or recover.
- 4.3. As far as power output, laser pointers and portable lasers do not release that much power. Especially not when compared to a normal 75W or 100W light globe. What makes the light from lasers so dangerous is that it has two unique properties.
 - 4.3.1. Coherent and focused. The energy is focused on a very small area similar to the way a magnifying glass focuses sunlight.
 - 4.3.2. Collimated. The light does not spread out from a laser; it stays in a focused narrow beam that makes lasers almost as dangerous at a distance as close up.

This not to say you should be afraid of lasers or avoid using them. What you should do, however, is to treat lasers with respect, be aware of their dangers and follow some basic guidelines to ensure your safety.