



AIX532-100 DPSS OEM Laser
Operation Manual

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1. Product Disclaimer

All power claims are based on input power. The actual power of this laser device depends on several factors including operating voltage, DC current stability, temperature, humidity, optics and the characteristics of each laser diode chip. The power is guaranteed to be nominally 100mw or over.

You understand that these laser components are dangerous when not properly assembled into a finished product. You will use these components as OEM components and properly incorporate them into a finished product. AixiZ is in no way responsible for any injury to any person resulting from the use of or assembly of these components or their finished products. You certify that you are at least 18 years of age. You will use these laser diodes in a safe and responsible manner and for a legal purpose. You are responsible for any legal requirements in your area for the possession and use of these laser components. You understand that AixiZ is in no way legally responsible for the use of these components or their end products. You accept this item as a COMPONENT for integration in a system of your own design and will hold AixiZ harmless from any and all LIABILITY. Our Laser Diodes and Modules are designed solely as an OEM component for incorporation into the customer's end products. This laser component does not and is not required to comply with FDA 21 CFR, section 1040.10 and 1040.11 for complete laser products.

2. AIX532-100 Introduction

DMG532-100 is a laser diode module that can be easily modified to fit a variety of applications. This compact device is easy to operate, and offers a relatively low cost solution to many applications. Some of these applications include beam collimation, laser medical devices, scientific research, laser alignment instruments, laser light shows, and others. Any personnel exposed to the beam should have laser protective eyewear on at all times. AixiZ recommends eyewear with an Optical Density >6 @ 532nm. This product will generate a very strong radiant light that can damage human skin and eyes, use extreme caution while unit is in operation.



3. System Specifications

Wavelength:	532 nm
Output Power:	100 mW
Operating Voltage:	90-240VAC, 50-60Hz
Operating Temperature:	10-40° C
Power Stability:	<5% (over 2 hours)
Beam Divergence:	<1.5 mrad
Beam Diameter:	<1.8mm
Warm Up Time:	<15 minutes
LD Drive Current:	385mA
LD Dive Current Limit:	500mA
TTL Modulation:	0VDC = Laser Off & 5VDC = Laser On

4. System Operation

4-1. Remove from packaging and verify that all components have been received.

4-2. Handle unit with care and avoid any sudden impacts on housing.

4-3. For best results mount laser head to a ¼ thick sheet of aluminum this will help transfer heat away from the unit allowing it to operate properly.

4-4. All applications for this unit must take place in a clean environment. Inspect the glass lens for any contaminants that may cause poor performance. Clean with methanol alcohol and lens tissue.

4-5. CAUTION: The following steps require laser protective eyewear to be worn to protect personnel from scattered radiation. NEVER point the output of this device at any person for any reason, this is not a toy.

4-6. Connect AC power to the correct wires paying close attention to polarity. Red (+), Black (-), AC power should be connected to the larger diameter wires.

4-7. For pulsed applications this unit is equipped with a TTL modulation circuit. Apply 0-5VDC to the smaller diameter wires observe correct polarity Red (+), Black (-). A frequency less then or equal to 30KHz can be achieved.



5. Warranty

AixiZ warrants laser modules for one year for materials and workmanship in normal operating conditions. Please test unit upon arrival if you have a problem contact your sales account manager to schedule a return. Any tampering with the device will void the limited warranty.