

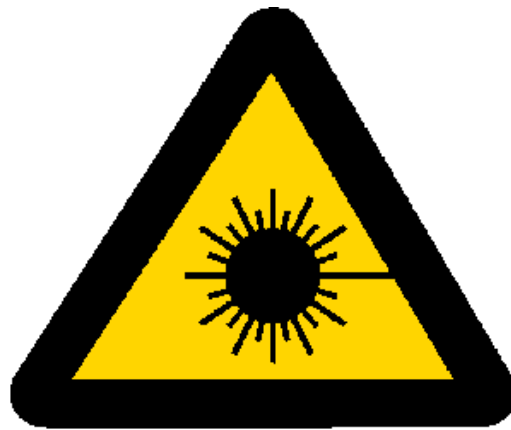


GREEN-50E

USER MANUAL



Please read this manual carefully before you initially start-up!



DANGER LASER RADIATION!

Avoid direct eye exposure!

Laser radiation can cause eye damage and/or skin damage

All protective measures for a safe operation of this laser must be applied.

1. SAFETY INSTRUCTIONS

- If the device has been exposed to drastic temperature fluctuation, do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- The laser must only be used for shows. The operation is only allowed if it is controlled by a skilled and well-trained operator.
- Never leave this device running unattended and keep it away from children and unauthorized persons.
- Keep away from heaters and other heating sources. In order to safeguard sufficient ventilation, leave 50 cm of free space around the device.
- Never direct the laser beam to people or animals.
- CAUTION LASER DIODE: Never unscrew the housing!
There are no serviceable parts inside the device. Maintenance and service operations shall only be carried out by authorized dealers.
- Always disconnect from the mains when the device is not in use or before cleaning it.
- **HEALTH HAZARD! Never look directly into the light source, as sensitive persons may suffer an epileptic shock!**

Green diode pumped solid state lasers:**GREEN-50E**

Low cost solid state 532 green laser - used in collimation, laser medical treatment, scientific experimentation, optics instrument, laser display, and lighting etc.

Technical Specifications:

- low cost laser diode & TTL PSU
- GREEN: ca. 50mW/532nm
- Wavelength (nm): 532
- Output power (mW): 50mW
- Operating mode: CW
- Warm-up time (minutes): <1min
- Power stability: <10%
- Beam divergence, full angle (mrad): <1.5
- Beam diameter at the aperture (mm): 1,5
- Operating temperature: 10-35°C
- Expected lifetime (hours): 5000
- Net weight of laser head (kg): 0.1
- Dimensions of laser head (mm): 30mm * 30mm * 80mm
- Power Supply: 220V 50/60 Hz
- TTL modulation: 5V
- TTL input: DC direct current 0-5V
 - o Switch on voltage: 3,4-3,6 VDC
 - o Switch off voltage: 3,5-3,3 VDC
 - o Colors:
 - Black: minus
 - Red: plus
- Line input: 230 V AC voltage
 - o Black: 0
 - o Red: phase

EU- Declaration of Conformity



We hereby confirm that the following device

Laserworld GREEN-50E

complies with the essential safety requirements, laid down in the regulations of the committee to assimilate the provisions of law of all participating EU states on the electromagnetic compatibility (98/336/EWG).

The device has been classified considering the following EU-norms on electromagnetic compatibility:

DIN EN 55103-1: 1996

DIN EN 55103-2: 1996

DIN EN 61000-3-2:2000 + A2: 2005

DIN EN 61000-3-3:1995 + A1: 2001

Assessment of compliance of the product with the requirements relating to the Low Voltage Directive (LVD) was based on the following standards:

DIN EN 60065 : 2002

This declaration is executed on behalf of the GREEN-50E Importer:

Laserworld (Switzerland) AG

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