E-SERIES - EV4GDS Green Diode-Pumped Solid State Laser Laser

The EV4GDS marker is based on an advanced Q-switched, fiber-coupled, diode end-pumped and frequency doubled (green wavelength) Nd: YVO$_4$ laser. Its laser beam and Q-switched pulse characteristics are optimized for applications that require high beam quality and stability. The 532nm wavelength of the EV4G offers extra power and speed for precision marking, scribing, trimming and other material processing that is not well suited for near IR or CO$_2$ wavelength lasers. The robust mechanical and optical design of the EV4GDS enables operation in industrial environments where shock, vibration and dust are a concern. The EV4GDS is a completely air-cooled, very compact, easily integrated package requiring very little maintenance. With an expected lifetime for the pump diode of over **100,000 hours**, downtime is dramatically reduced. Because of the modular fiber coupled design, diode replacement can be completed quickly with no need to re-align the laser.

Model E10 Series Controller

LASER MARKER SPECIFICATIONS

Compliance...CDRH, CE
Wavelength...…532 nm
Laser Type........................... Fiber-coupled diode end-pumped, Q-switched Nd:YAG Laser
Average Power (at 20KHZ)..4 W
Positioning ....Visible Red Diode Light
Optical Fiber Length ....1.75 meters (5.74 feet) standard
4.75 meters (15.58 feet) optional
Cooling .... Air Cooled, active thermo-electric (no water cooling required)
Maximum Power Consumption.........................Less than 600 W
Mounting Weight.....................................approx. 25 kg (55 lbs.)
Operating Temperature Range ....18° to 30°C (65° to 86°F)
Humidity......................................10% to 85% Non-condensing
Marking Head Dimensions ....
80.6(L) x 24.9(W) x 19.7 cm(H)
(31.7˝ x 9.8˝ x 7.7˝)
Temperature Controller Dimensions ....
21.3(W) x 9.6(H) x 21.2 cm(D)
(8.4˝ x 3.7˝ x 8.3˝)
Controller Dimensions...
43(W) x 14(H) x 50 cm(L)
(16.8˝ x 5.5˝ x 19.2˝)
Input Power .... 115/230 VAC 50/60 Hz

STANDARD LENS CONFIGURATIONS

FOCAL LENGTH	MARKING FIELD
100 mm	55 mm X 55 mm (2.17˝ X 2.17˝)
160 mm	110 mm X 110 mm (4.33˝ X 4.33˝)
250 mm	170 mm X 170 mm (6.69˝ X 6.69˝)

SOFTWARE

Software....................................**MERLIN**® **II LS** (see page 23)
Operating System......................Windows® 2000, Windows XP, Windows Vista™, or Windows® 7 with Desktop PC (Std), Optional Laptop
Communication Interface .... Serial, TCP/IP, I/O

QR Code Web Page Product Link

DATA MATRIX™ 2-D Code Marking Capability
Meets all Department of Defense UID Requirements