The EV4GDS marker is based on an advanced Q-switched, fiber-coupled, diode end-pumped and frequency doubled (green wavelength) Nd: YVO₄ 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 CO₂ 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 250,000 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.

**LASER MARKER SPECIFICATIONS**

- **Compliance**: CDRH, CE
- **Wavelength**: 532nm
- **Laser Type**: Fiber-coupled diode end-pumped, Q-switched Nd:YAG Laser
- **Laser Beam Mode**: TEM₀₀
- **Average Power**: Up to 4W
- **Positioning**: Visible Red Diode Light
- **Optical Fiber Length**: 1.75 meters (5.74 feet) standard, 4.75 meters (15.58 feet) optional
- **Mounting Weight**: approx. 25kg (55lbs.)
- **Marking Head Dimensions**: 80.6(L) x 24.9(W) x 19.7cm(H) (31.7” x 9.8” x 7.7”)
- **Temperature Controller Dimensions**: 21.3(W) x 9.6(H) x 21.2cm(D) (8.4” x 3.7” x 8.3”)
- **Controller Dimensions**: 42.7(W) x 14.0(H) x 48.8cm(L) (16.8” x 5.5” x 19.2”)
- **Input Power**: 115/230VAC 50/60Hz
- **Maximum Power Consumption**: Less than 600W
- **Cooling**: Air Cooled, active thermo-electric (no water cooling required)
- **Operating Temperature Range**: 18° to 35°C (65° to 96°F)
- **Humidity**: 10% to 85% Non-condensing

**STANDARD LENS CONFIGURATIONS**

- **FOCAL LENGTH**
  - 100mm: 55mm X 55mm (2.17” X 2.17”)
  - 160mm: 110mm X 110mm (4.33” X 4.33”)
  - 250mm: 170mm X 170mm (6.69” X 6.69”)

**SOFTWARE**

- **Software**: MERLIN® II LS
- **Operating System**: Windows® 2000, Windows XP, Windows Vista™, Windows® 7, or Windows® 8 with Optional Embedded, Desktop or Rackmount PC
- **Communication Interface**: Serial, TCP/IP, I/O

**DATA MATRIX™ 2-D Code Marking Capability**

Meets all Department of Defense UID Requirements