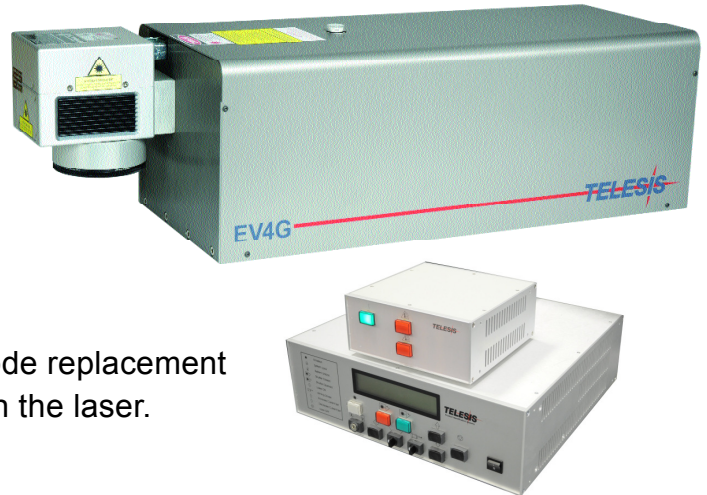




E-SERIES EV4G Green Laser

The EV4G 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 EV4G enables operation in industrial environments where shock, vibration and dust are a concern. The EV4G is a completely air-cooled, very compact, easily integrated package requiring very little maintenance. With an expected life-time for the pump diode of over 20,000 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.



XP1 Laser Controller with temperature Controller

LASER MARKER SPECIFICATIONS

Compliance.....	CDRH, CE
Wavelength.....	532 nanometers (nm)
Laser Type.....	Fiber-coupled diode end-pumped, Q-switched Nd:YVO ₄ laser
Average Power (at 20KHZ).....	4W
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
Maximum Power Consumption.....	Less than 600 watts
Mounting Weight.....	approx. 25Kg (55 lbs.)
Operating Temperature Range.....	18° to 30°C (65° to 86° F)
Humidity.....	10% to 85% Non-condensing
Marking Head Dimensions	68.6 (L) x 24.5 (W) x 19.1cm (H) (26.99" x 9.658" x 7.524")
Temperature Controller Dimensions	21.3 (W) x 9.6 (H) x 21.2cm (D) (8.4" x 3.7" x 8.3")
XP1 Controller Dimensions	43 (W) x 14 (H) x 51cm (L) (17" x 5.5" x 20")
Input Power (selectable).....	115/230 VAC 50/60 Hz



LENS CONFIGURATIONS AVAILABLE

FOCAL LENGTH	MARKING FIELD
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 (see page 15)
Operating System	Windows® 2000, Windows XP, or Windows Vista™
Desktop PC (Std), Optional Laptop	
Communication Interface	Serial, TCP/IP, I/O



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