TELESIS
MARK OF CONFIDENCE

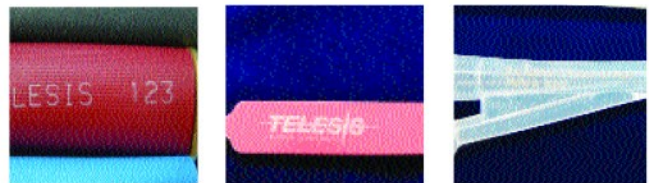# E-Series - EV4GDS Green Diode-Pumped Solid State Laser

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 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.

EV4GDS

Model E10 Series Controller

LASER MARKER SPECIFICATIONS

Compliance...CDRH, CE
Wavelength..532nm
Laser Type........................... Fiber-coupled diode end-pumped, Q-switched Nd:YAG Laser
Laser Beam Mode...TEM_{00}
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	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
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