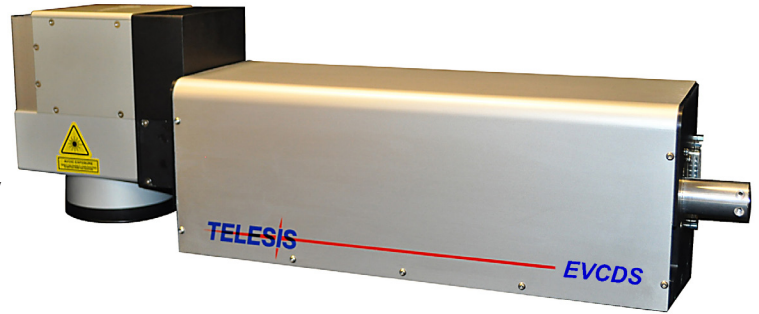# E-Series - EVCDS
Diode-Pumped Solid State Laser

The TELESIS EVCDS marker is an extremely cost effective DPSS laser based on a proven advanced Q-Switched, fiber-coupled diode end-pumped Nd:YVO$_4$ laser platform for applications requiring high beam quality and stability. It features a dual sensor shutter safety system and its exceptional power stability at all power levels makes the EVCDS an ideal choice for engraving, annealed marking, or high speed marking on delicate and heat sensitive electronic components, thin foils and medical instruments. The EVCDS is completely air cooled with a very compact, easily integrated package requiring very little maintenance. With an expected lifetime for the pump diode of over 500,000 hours, down time is dramatically reduced. Because of the modular fiber coupled design, diode replacement can be completed quickly with no need to realign the laser. The compact footprint of the system allows for the easy integration into both manual off-line and automated in-line applications with Marking-On-The-Fly (MOTF) support for high volume applications.*

LASER MARKER SPECIFICATIONS

Compliance..CDRH, CE
Wavelength...…1,064nm
Laser Type........................... Fiber-coupled diode end-pumped, Q-switched Nd:YVO$_4$ laser
Laser Beam Mode .... TEM$_{00}$
Average Power...Up to 9W
Positioning ....Visible Red Diode Light
Optical Fiber Length .... 1.75 meters (5.74 feet) standard
Mounting Weight....................................Approx. 14.5kg (32lbs.)
Marking Head Dimensions ....
15.4(W) x 18.8(H) x 61.1cm(L)
(6.1˝ x 7.4˝ x 24.1˝)
Controller Dimensions...
42.7(W) x 14.0(H) x 48.8cm(L)
(16.8˝ x 5.5˝ x 19.2˝)
Controller Weight.................................15kg (33lbs.)
Input Power...95-250VAC, 6A, 50/60Hz
System Power Consumption...< 400W
Cooling .... Air Cooled, active thermo-electric (no water cooling required)
Operating Temperature Range.................15° to 35°C (65° to 95°F)
Humidity......................................10% to 85% Non-condensing

Model E10 Series Controller

STANDARD LENS CONFIGURATIONS

FOCAL LENGTH	MARKING FIELD
100mm	65mm X 65mm (2.56˝ X 2.56˝)
160mm	110mm X 110mm (4.33˝ X 4.33˝)
254mm	175mm X 175mm (6.89˝ X 6.89˝)

Other lens configurations are available

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

QR Code Web Page Product Link

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

*MOTF Version and embedded PC controller versions available at additional charge