E-SERIES
EV25DS Diode-Pumped Solid State Laser

The EV25DS is the latest advancement in the Telesis E-series family of laser marking systems, offering 25W of power in a high quality laser beam. It is the solution to the most demanding marking application in automotive, medical, aerospace, and other commercial and industrial markets. The enhanced performance of the EV25DS provides a solution for marking applications that require special characteristics such as deep marking, fast cycle times and high resolution marks.

Along with the standard PC-based version, an optional embedded controller version requiring no separate PC is available for all three models.

Engraved approximately 4mm deep in aluminum

Engraved approximately 2mm deep in aluminum

LASER MARKER SPECIFICATIONS

Compliance..CDRH, CE

Wavelength...1064 nm

Laser Type.........................Fiber-coupled diode end-pumped, Q-switched Nd:YVO4 laser

Laser beam mode...TEM_{oo}

CW Power..25 Watts

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

Maxium Power Consumption...................Less than 800 Watts

Operating Temperature Range.......18° to 30° C (65° to 86° F)

Humidity...................................10% to 85% Non-condensing

Mounting Weight.................................Approx. 24 kg (53 lbs.)

Marketing Head Dimensions...
70.6 (L) x 23.6 (W) x 22.5cm (H) (26.1˝   x 9.4˝   x 8.4˝)

E1025 Controller Dimensions....43 (W) x 14 (H) x 49cm (L) (16.7˝   x 5.5˝   x 19.2˝)

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

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At the heart of the EV25DS marking system is our air cooled, high power, industrial grade 25W, diode-pumped, solid-state vanadate laser. It is designed to operate in the harshest of environments while maintaining peak performance for many thousands of hours of maintenance-free operation. When the time comes for maintenance and component replacement, most can be done onsite thanks to its modular design, eliminating the need to return the laser to the factory, resulting in lost revenue due to non-productive downtime.
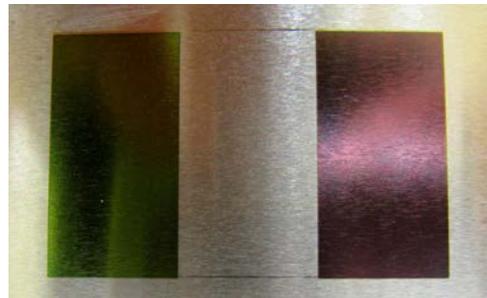
The EV25DS offers a broad range of laser performance that allows the user to tailor its operation for maximum results in the final mark. The EV25DS offers distinct advantages over fiber lasers and other solid state lasers due to its superior beam quality, resulting in smaller focused spot sizes and a longer working depth of field than other lasers can offer. The key features of the EV25DS provide the strength to tackle metals such as stainless steel, cobalt, and titanium, as well as provide the high marking speeds required for marking-on-the-fly (MOTF). It also provides the fine detail to do trimming, edge heat treating, and even marking delicate materials like plastics, foils, and labels. It produces superb annealed marks that stand up to the harshest of tests, high resolution 2D codes, and can even produce unique color marks on various metals. The EV25DS can do all of this while providing customers with a quick return on investment as it meets their production requirements.

MODEL E1025 CONTROLLER

LENS CONFIGURATION AVAILABLE

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 (6.88″ X 6.88″)
330mm	230mm X 230mm (9.06″ X 9.06″)
350mm	250mm X 250mm (9.84″ X 9.84″)
420mm	290mm X 290mm (11.42″ X 11.42″)

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

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Color Marking on Stainless Steel