



## E-SERIES EV10SDS/EV15DS Diode-Pumped Solid State Laser

The Telesis EV10SDS (10W) and EV15DS (15W) markers are based on advanced Q-Switched, fiber-coupled diode end-pumped Nd: YVO4 lasers.

The outstanding beam quality of the EV10SDS and EV15DS makes them superior to all other markers of equivalent power for high resolution and high speed marking. Additionally, the shorter pulse widths and high peak powers of these markers make them the preferred choice for challenging marking applications on silicon or heat sensitive materials such as plastics or thin foils. Their smaller spot size and extended depth of focus allow the EV10SDS and EV15DS to mark much more highly curved surfaces than fiber lasers. The air-cooled EV10SDS and EV15DS are excellent choices for high speed Marking-On-the-Fly applications as well. With expected lifetime for the pump diode of over 20,000 hours, down time is dramatically reduced. Diode replacement can be completed quickly and the fiber coupled diode design eliminates the need to re-align the laser marker. The marker's modular design, housing the diode in the laser controller, eliminates a large heat source from the laser insuring maximum stability as well as the need for water cooling.



### 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 <sub>00</sub>
CW Power.....	EV10SDS — 10W, EV15DS — 15W
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
Operating Temperature Range.....	18° to 30° C (65° to 86° F)
Humidity.....	10% to 85% Non-condensing
Mounting Weight.....	Approx. 20 kg (45 lbs.)
Marketing Head Dimensions	
EV10SDS.....	75.9 (L) x 17.7 (W) x 18.0cm (H) (29.9" x 7.0" x 7.1")
EV15DS.....	71.9 (L) x 16.2 (W) x 19.1cm (H) (26.8" x 6.4" x 7.5")
E1015 Controller Dimensions.....	
	42 (W) x 14 (H) x 49 cm (L) (16.75" x 5.53" x 19.20")
Input Power (selectable).....	115/230 VAC 50/60 Hz
Max. Power Consumption.....	Less than 500W

### LENS CONFIGURATIONS 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 .....	<b>MERLIN</b> ® 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



MODEL E1015 SYSTEM CONTROLLER



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