

## E-SERIES EV-25 Vanadate Laser Marking Systems

The new EV25 25w vanadate laser systems are the latest in the E-series line of end-pumped solid state lasers from Telesis Technologies. Not only is the EV25 "the solution" for general marking requirements in the automotive, medical, aerospace and industrial markets, it is also "the choice" for a wide range of applications



requiring deep engraving, quick cycle times or high quality graphics. The distinct advantage of higher peak power and shorter pulse width, coupled with a much longer focal tolerance, make the 25EV superior to fiber lasers in many challenging applications such as those marking high resolution graphics, fine 2D codes, or heath sensitive materials such as silicon, plastics or thin foils.

The air-cooled EV25 provides a diode MTBF of over 20,000 hours and essentially maintenance free operation until pumping diode replacement, which is much less costly than for fiber lasers. The system is entirely air-cooled, avoiding the need for any external cooling system. The diod is located in the controller and coupled by fiber to the resonator and scanning head, allowing for a robust and compact design which is easy to intergrate into a production environment.

## **SPECIFICATIONS**

ComplianceCDRH, CE, UID		
Wavelength1064 n		
Laser TypeFiber-coupled diode end-pumped,		
Q-switched Nd:YVO4 laser		
Q-S witch Frequency10 kHz to 100 kHz		
Pulse Width (Duration)10 nanoseconds		
ModeTEMoo		
CW Average Power25 Watts		
Long Term Output Power DriftLess than $\pm~2\%$		
Lens (Std)160mm Focal Length		
110mm x 110mm Field (4.33"x 4.33		
Lens (Std)100mm Focal Lengt		
65mm x 65mm Field (2.65½ 2.65")		
PositioningVisible Red Diode Light		
Optical Fiber Length1.75 meters (5.75 feet)		
CoolingAir-cooled, active thermo-electric		
Max. Power ConsumptionLess than 500 Watts		
Operating Temperature Range18° to 30° C		
Non-condensing (65° to 86° F)		
Humidity10% to 85% Non-condensing		
Expected MTBF20,000 hours maintenance-free		
diode pumping source		
Mounting WeightApprox. 25 kg (55 lbs.)		



## DIMENSIONS

EV2566.3 cm (L) x 23	5.8 cm (W) x 21.3 cm (	(H)
	(26.1"L x 9.4"W x 8.4"	'H)
Input Power (selectable)	.115/230 VAC 50/60	Hz
Controller Dimensions	Std. Rack Mou	unt
42 cm (W	) x 14 cm (H) x 46 cm	(L)
(	(16.5"W x 5.5"H x 18"	' L)
S oftware	Merlin II LS Softw	vare
Operating SystemV	Vindows 2000, XP, Vi	s ta ª
Desktop P	C (Std), Optional Lap	ptop
InterfaceS eria	al, I/O, and Host Cap	able

