



# E-SERIES EY5 Diode-Pumped Solid State Laser

LASER MARKING

The Telesis EY5 marker is based on an advanced Q-switched, fiber-coupled diode end-pumped Nd:YAG laser, which provides high pulse energies and exceptional beam quality for marking, scribing, trimming, and other material processing applications. The EY5



is a completely air cooled, very compact, easily integrated package requiring very little maintenance. With an expected lifetime for the pump diode of over 20,000 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



EY5 is an extremely reliable, low cost alternative to other laser markers.

## LASER MARKER SPECIFICATIONS

Compliance.....	CDRH, CE
Wavelength.....	1,064 nm
Laser Type.....	Fiber-coupled diode end-pumped, Q-switched Nd:YAG Laser
Mode.....	TEM <sub>00</sub>
CW Power .....	5W
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
Max. Power Consumption .....	Less than 500W
Operating Temperature Range .....	18° to 35° C (65° to 95° F)
Humidity.....	10% to 85% Non-condensing
Mounting Weight.....	approx. 13.6Kg (30 lb.)
Marking Head Dimensions .....	31.75 (W) x 15.72 (H) x 42.9cm (L) (12.5" x 6.187" x 16.885")
XP1 Controller Dimensions .....	43 (W) x 14 (H) x 51cm (L) (17" x 5.5" x 20")
Input Power (Selectable) .....	115/230 VAC, 50/60 Hz
Max. Power Consumption.....	Less than 500W

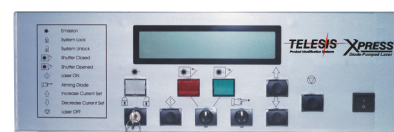
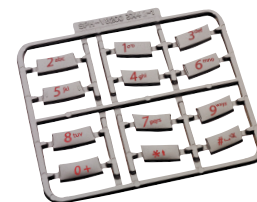
## STANDARD LENS CONFIGURATION

FOCAL LENGTH	MARKING FIELD
100mm	65mm X 65mm (2.56" X 2.56")
160mm	110mm X 110mm (4.33" X 4.33")

Other lens configurations are available

## 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, I/O and Host Capable



**MODEL XP1 SYSTEM CONTROLLER**



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