



# E-SERIES Diode-Pumped Solid State Lasers EY5

The EY5 Diode-Pumped, Solid-State Laser Marking System is an extremely reliable, low cost alternative to other laser designs.

Features include a CW/Q-Switched

Nd:YAG end-pumped laser with a remote fiber coupled light source. Average diode life is greater than 20,000 working hours. The EY5 is a flexible, compact, low maintenance, easily integrated package.



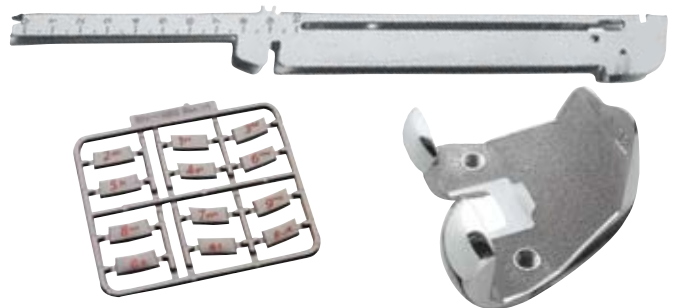
## Model EY5 Specifications

### Laser Specs

Compliance.....	CDRH, CE, UID
Wavelength.....	1,064 nm
Laser Type.....	Fiber-coupled diode end-pumped, Q-switched Nd:YAG Laser
Q-Switch Frequency.....	1 KHz to 100 KHz
Pulse Width (Duration).....	30 nanoseconds (ns)
Mode.....	TEM <sub>00</sub>
CW Average Power.....	5 W
Long Term Output Power Stability.....	Less than + 2%
Lens (Std).....	160mm Focal Length 110mm x 110mm Field, (4.33" x 4.33")
Lens (Std).....	100mm Focal Length 65mm x 65mm Field, (2.56" x 2.56")
Positioning.....	Visible Red Diode Light, 650nm
Optical Fiber Length.....	1.75 meters (5.74 feet)
Cooling.....	Air Cooled, active thermo-electric
Max. Power Consumption.....	Less than 500W
Operating Temperature Range.....	18° to 35°C Non-condensing (65° to 95° F)
Humidity.....	10% to 85% Non-condensing
Expected MTBF.....	20,000 hours maintenance-free diode pumping source
System Weight.....	approx. 24Kg (53 lb.)
Galvo and Rail Assembly Dimensions.....	31.75 cm (W) x 15.72 cm (H) x 42.9 cm (L) (12.5" W x 6.187" H x 16.885" L)
Input Power (Selectable).....	15/230 VAC, 50/60 Hz
Optical Fiber Umbilical Length Rail to Controller.....	1.37 Meters (4.53 feet) Std.
Controller.....	Std. Rack mount 43 cm (W) x 14 cm (H) x 51 cm (L) (17" W x 5.5" H x 20" L)

### Software

Software.....	Merlin II LS®
Operating System.....	Windows® 2000, Windows XP, or Windows Vista™
Font Generation.....	True Type Fonts
Barcodes and Matrix.....	2D Data Matrix™, PDF417, BC 39, Interleaved 2 of 5, UPCA/UPCE BC 128, Maxi Code, Code 93, QR Code and Others
Graphic Formats.....	Raster and Vector .BMP, .GIF, .JPG, .WMF, .EMF, .PLT, .DXF
Serialization.....	Automatic and Manual Input Host Interface Capable
Linear Marking.....	Scalable with Letter Spacing Control
Arc Text Marking.....	Scalable and Adjustable
Drawing Tools.....	Line, Rectangle, Circle
Interface.....	Serial, I/O and Host Capable



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

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