The Xpress Model 5EY 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 Xpress Model 5EY is a flexible, compact, low maintenance, easily integrated package.
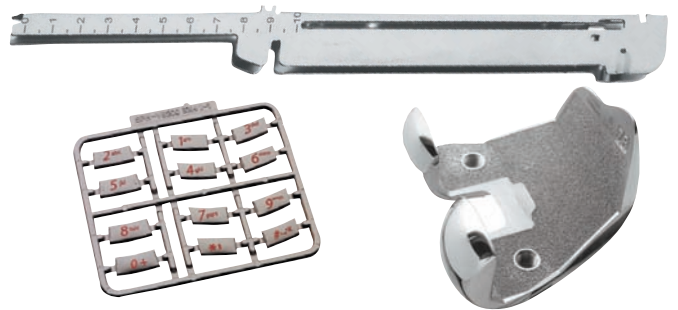
Model 5EY Specifications

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_{00}
CW Average Power	7 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.
Xpress 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, XP Desktop PC (Std) Optional Laptop
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

TELESIS
Product Identification and Process Solutions