



# VIRTUS™

## Laser Marker



### Advanced Control, Diagnostic & Safety Features for Extended System Life

Our OEM VIRTUS™ offers an extended life and the latest, advanced features in the laser marking industry. Available in a 10 or 20 watt configuration, VIRTUS™ carries a three year diode warranty and is ideal for marking all metals and most plastics; electronic components and annealing medical/surgical implants and devices.

The laser control system is packaged within a slim, 19" rack mount footprint containing advanced features for monitoring and control. Dual-temperature controls provide longer diode life and are covered by an extended, three-year warranty. VIRTUS™ also features real-time laser parameter status feedback and enhanced communication capabilities.

### Features

- Air-Cooled, Solid State Design with Dual Temperature Control for Extended Life
- Compact, 19" Rack-mount Configuration
- Auto-diagnostic/Advanced Monitoring Features for Real-Time System Feedback
- Advanced Communication Capability including Discreet I/O, Ethernet and RS232
- Control of up to Four External Axes and Mark on the Fly Capability
- Available as an OEM System, with Zetalase™ or Custom-Engineered Enclosures
- Three-Year Warranty

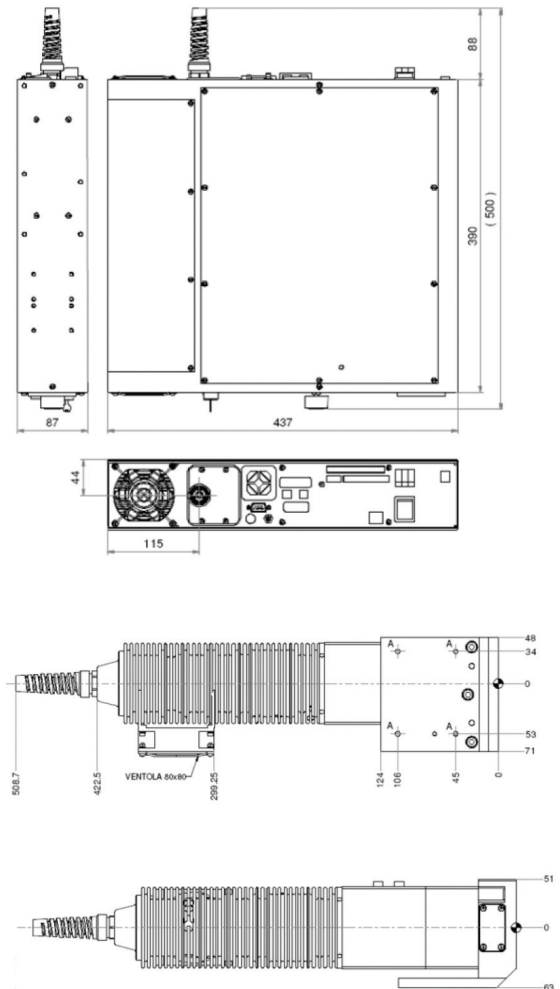
### Powerful. Simple. Affordable.

TYKMA Technologies • P.O. Box 917 • 931 East Water Street • Chillicothe, Ohio 45601  
 Phone (740) 779-9918 • Fax (740) 779-9910 • Toll Free 877-318-9562 • [www.permanentmarking.com](http://www.permanentmarking.com)

**Technical Data**

Nominal Power	10W	20W
Wavelength	1064nm	
Input Voltage	110 - 240VAC 50/60Hz	
Frequency Range	10 - 200kHz (10W) 20 - 200kHz (20W)	
Pulsewidth	15ns (10W)	8ns (20W)
Aiming Beam	Class 2M Red Diode 635nm	
Communications	Ethernet / RS232 / Discreet I/O	
Warranty	36 Month / Unlimited Hours	
Fiber Cable Length	3m Standard	
Laser Source	DPSS Vanadate	
Emission Radiation	Pulsed	
Temperature Range	Operative 50°F to 95°F	
Cooling	Air Cooled	
Resonator Dimensions	114 x 125 x 448 mm	
Resonator Weight	22 lbs	
Rack Dimensions	499 x 437 x 87 mm	
Rack Weight	26.5 lbs	
Available Lens Configurations	160mm (S) - 100 x 100mm 254mm (S) - 140 x 140mm 254mm (L) - 180 x 180mm 330mm (L) - 220 x 220mm	

**Control Rack Assembly**



*Full size drawings available upon request.*

VIRTUS™ is a Class 4 laser product when not provided with a TYKMA certified Class 1 Safety Enclosure. This Class 4 component is offered to qualified manufacturers which can provide Interlocks, indicators and other appropriate safety features in full compliance with CFR 1040 and/or other applicable national and local regulations. VIRTUS™ complies with EEC Rules 2004/108/EEC: “Electromagnetic Compatibility”; and 2006/95/EEC: “Low Voltage.” The laser is also compliant with EU Standards: EN61000-6-4, EN61000-6-2, EN60204-1 and EN60825-1.

Laser interaction with organic or inorganic materials can cause TOXIC FUMES/PARTICLES. TYKMA highly recommends and provides a variety of fume extraction equipment to minimize dust, fumes or smoke that can be created during deep engraving or the marking of plastics, anodized, painted and other coated materials. Proper use and maintenance of your TYKMA Laser Marking System ensures optimum performance and prolongs equipment life.



VIRTUS Rev 1: 1/12



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*TYKMA follows a policy of continuous product improvement. Specifications are subject to change without notice.*