

## Key Benefits

- Fast and easy installation
- Fully networkable
- Simplified management for multiple laser environments
- Flexible architecture (modes, configurations, laser types)
- Industry leading performance
- Highest marking quality
- Improved user productivity
- Eliminates need for PC on production floor

## Key Hardware Features

- Slim 1U rack-mountable enclosure
- Based on the LEC-1 next generation Ethernet-based "smart" controller
- Supports most popular laser types including SPI G3 and IPG fiber lasers with general purpose laser extension options.
- Supports XY/2-100 scan head interface
- Provides remote access, control, and monitoring

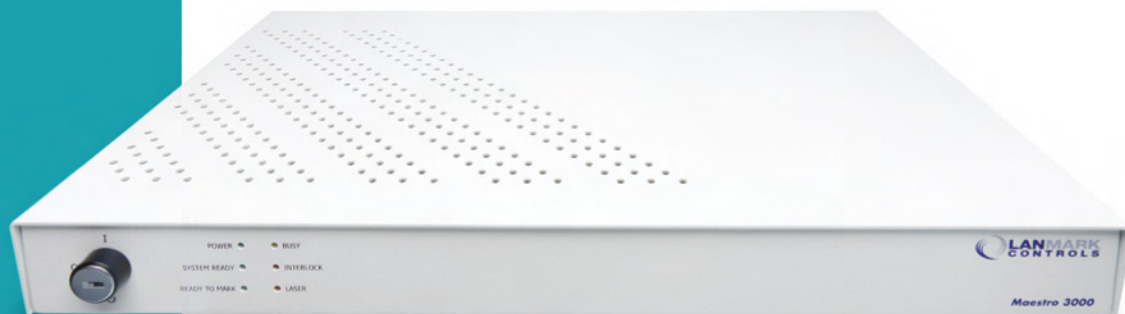
## Maestro™ 3000 Integrated Controller

### *Bringing the power of networking to laser marking*

Lanmark® Controls' Maestro 3000 Series Integrated Control Box is a turnkey controller solution for galvanometer-based laser marking systems. The Maestro 3000 combines the LEC-1 scan controller, a power supply, and interface hardware (laser extension and I/O boards) into a slim, 1U rack-mountable enclosure.

Designed for laser marking OEMs and end users, the Maestro 3000 controller-in-a-box offers customers the best of both worlds – optimized, high performance laser marking control and fast and easy installation. Simply connect a cable, load the WinLase® LAN Software on your PC (purchased separately), and you are ready to go.

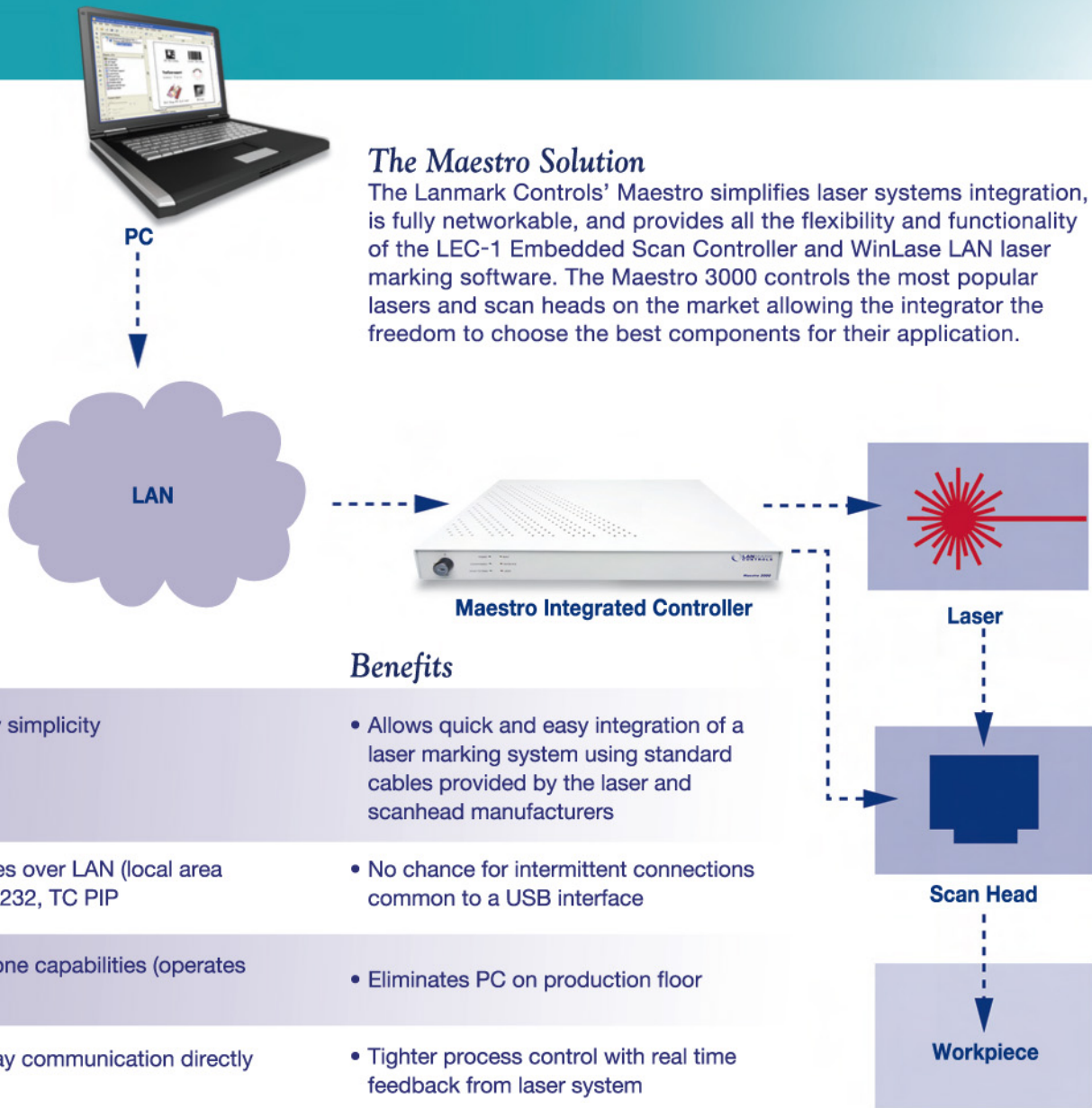
Behind Maestro's simple user interface is the LEC-1, Lanmark's next generation Ethernet-based "smart" controller, a networked device that controls multiple laser systems, providing customers with lower PC costs, flexible equipment location, and simple laser management.



for general inquiries about our  
products email us at :  
[info@LanmarkControls.com](mailto:info@LanmarkControls.com)



# Maestro 3000 Integrated Controller



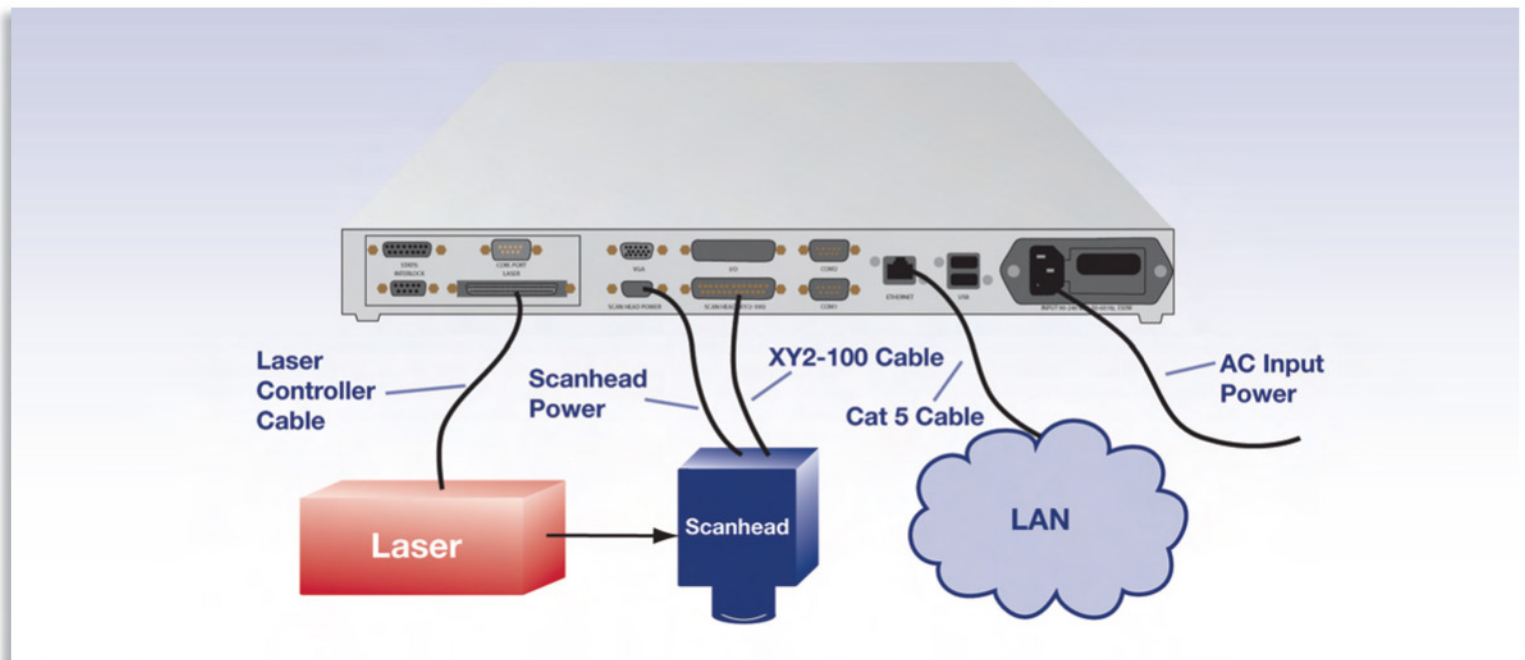
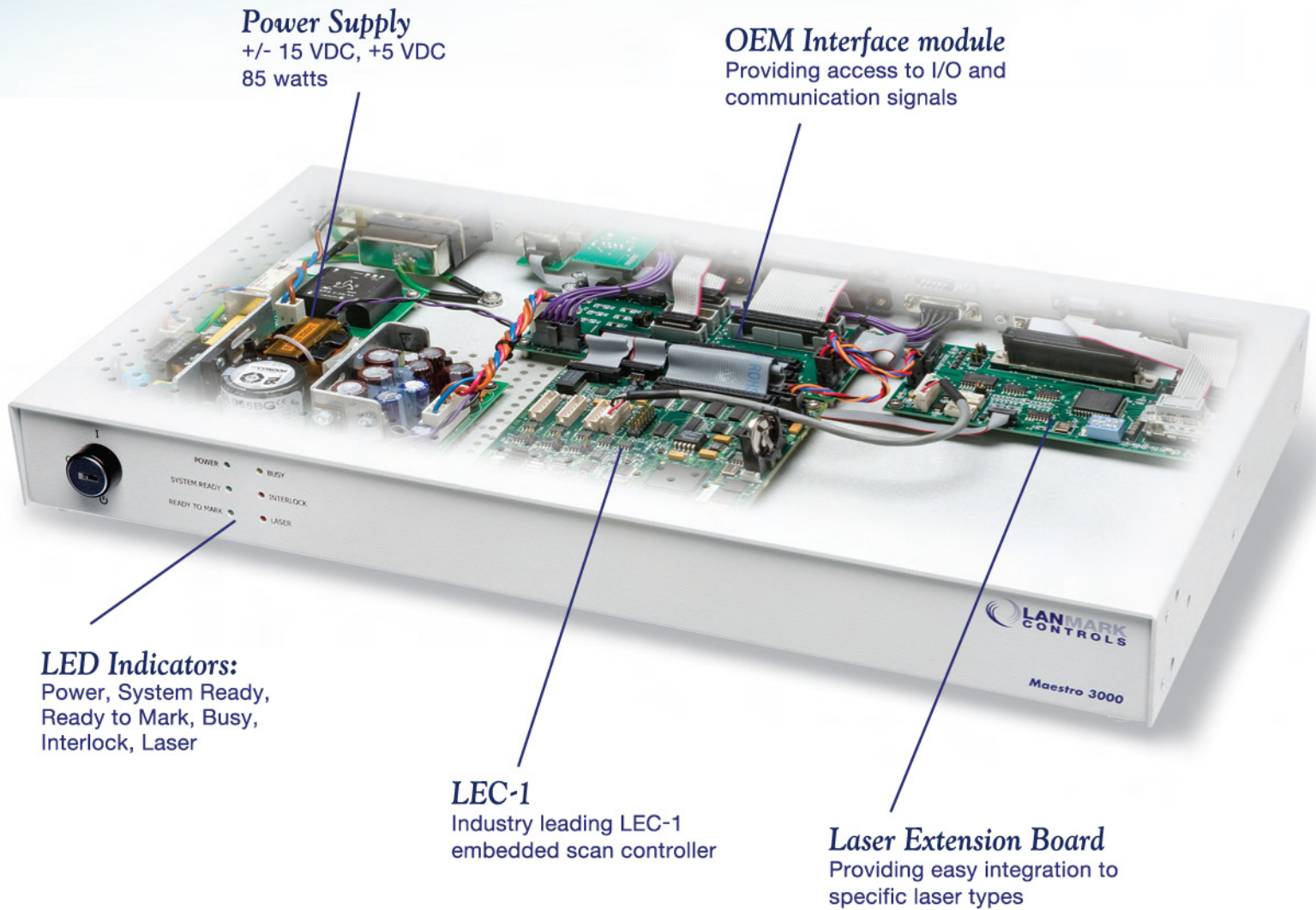
## Features

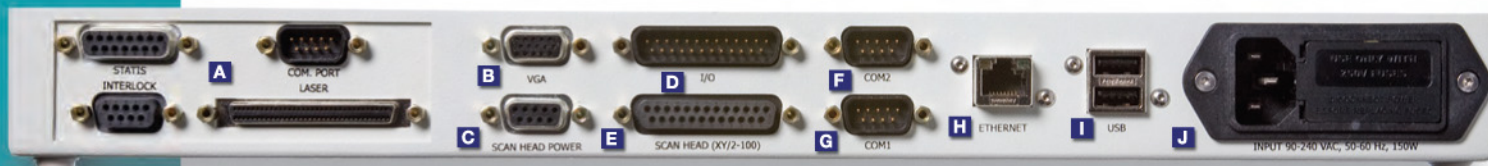
- Plug and play simplicity
- Communicates over LAN (local area network), RS 232, TC PIP
- Full Stand Alone capabilities (operates without a PC)
- Offers two way communication directly to a PLC
- Communicate to several laser marking systems from one PC over LAN
- Frequency range of 20 Hz – 5 MHz
- Proprietary software and hardware design
- Interfaces to all XY/2-100 scan heads
- Laser extension option monitors laser error signals
- Full customer service

## Benefits

- Allows quick and easy integration of a laser marking system using standard cables provided by the laser and scanhead manufacturers
- No chance for intermittent connections common to a USB interface
- Eliminates PC on production floor
- Tighter process control with real time feedback from laser system
- Streamline production communication
- Realizes full laser frequency control providing unique application solutions
- Full control of the product for new features and development
- CT, GS, ScanLab, RayLase, Nutfield, Sunny
- Tighter control of production with real time feedback of laser error status
- Minimizes downtime







- A** Laser Extension Board – provides access to laser signals
- B** VGA Connector D-Sub – provides access to VGA signals
- C** Scan head Power, D-Sub female – used for powering scan heads
- D** User I/O, D-Sub male – provides access to user programmable I/O and the Mark-On-The-Fly encoder signals
- E** XY/2-100, D-Sub female – provides access to the XY/2-100 signals
- F** COM 2, D-Sub male – provides access to the COM 2 port
- G** COM 1, D-Sub male – provides access to the COM 1 port
- H** Ethernet, RJ-45 – provides access to Ethernet signals
- I** USB – provides access to the USB0 and USB1 host ports
- J** Input Power – The input voltage specification is 90 – 240 VAC, 50 – 60 Hz with maximum power consumption of 150 watts

## Product Specifications

- Controls popular laser types, including IPG Type B fiber and SPI G3 fiber
- Supports XY/2-100 scan head interface
- 1U 19-inch rack mount or desktop enclosure
- One 10/100 Ethernet LAN
- Two USB ports
- 2 RS-232 (COM) ports
- Digital I/O ports
- Scan head power
- Optional VGA for monitor
- Laser extension board output for specific laser types
- Front panel LEDs: power, system ready, laser error, interlock error, ready to mark, busy
- Enclosure: Aluminum with white powder coat finish
- Dimensions: (HWS) 4.4cm x 43.5 cm x 27.9 cm (1.75" x 17.13" x 11.0")
- Weight: 2.0 kg (4.5 lbs)

## Accessories Included

- WinLase LAN software USB hardlock key
- 19" rack mounting brackets
- Laser extension board specified upon order
- Power cord for local markets be specified upon order
- WinLase Embedded Basic firmware
- Electronic Maestro, WinLase, LEC-1 Manuals
- Electronic WinLase LAN installation

## Optional Accessories

- WinLase Embedded Standard firmware, for stand alone operation
- WinLase Embedded Advanced firmware, for Mark-On-The-Fly operation
- WinLase LAN CD
- Printed Maestro, WinLase, LEC-1 Manuals

WinLase and Lanmark are registered trademarks and Maestro is a pending trademark of Lanmark Controls Inc. in the United States and other countries.