

## SALIENT CHARACTERISTICS

Subject: Universal Laser Systems (ULS) ULTRA R9000

Description: Universal Laser Ultra R9000 Platform Laser Engraver and Cutter

- External Dimensions: 71 x 44 x 48 in.
- Weight: 500 lbs.
- Power Requirements: 220 -240 V/16A
- Exhaust Requirements: Intelligent Air Filtration or External Exhaust Blower capable of >700 CFM at 6 in.
- Computer Requirements: Computer is not required as configured
- Laser Safety Classification: Class 1 for material processing lasers, Class 2 overall due to red laser pointer

Features:

- 48" X 24" Processing Area, Max tall part 12"
- 21" Touch-Screen Control Panel
- Precision Material-Dependent Autofocus
- Over-temperature detection with alarm and power-down function
- Fire Suppression Plumbing System (cannisters separate)
- Vacuum Table Booster
- Multi-Camera Registration System, Door and Carriage
- Computer Controlled Air Compressor
  - Programmable Gas Assist, High-Pressure Capable
  - Optics Protection, barrier of clean air protects optics
- Honeycomb Precision Cutting Grid
- Rapid Laser Cartridge Re-configuration
- Intelligent Materials Database
- Laser Management System-User Interface
- Industry Format Support, PDF, DXF, G-Code
- Kerf Compensation
- Vector Acceleration Control
- Energy Stabilization, maintains even laser power
- Intelligent Path Planner for Process Efficiency
- True-Width Raster Processing
- Design File Geometry Preservation
- Line Segment Reduction for Smoother Vector Processing
- Path Deviation Control to increase throughput
- Dual CO2 Laser Configuration
  - (1) 50-Watt CO2 Laser, 10.6  $\mu\text{m}$
  - (1) 75-Watt CO2 Laser, 10.6  $\mu\text{m}$
- 4X-1X-13X Controllable Laser Power Density Optics Module