

VLS3.50

24" x 12" Work Area



Uniquely Universal Features

Laser Interface+™

Universal Laser Systems has developed the world's most advanced, powerful and flexible laser print driver.

1-Touch Laser Photo™

We developed this software to make any photographic image suitable for laser engraving.

Universal Laser Cartridges

Our exclusive line of patented CO2 Free-Space Gas Slab Lasers is designed specifically for the needs of laser cutting, engraving, graphic imaging and marking applications.

High Power Density Focusing Optics™

These optics allow the laser beam to be focused to a much smaller spot, producing sharper images at tighter tolerances.



Platform Overview

The desktop VLS3.50 is small enough to fit on a work surface yet powerful enough to meet the requirements of on-demand production. Used frequently for educational purposes, the VLS3.50 is also a great choice for starting your laser business. Offering a material processing envelope of 24" x 12" x 4", 1,152 in³ (610 x 305 x 102mm, 18,878 cm³), the VLS3.50 can be equipped with one of five ULS laser cartridges ranging in power from 10-50 watts. The VLS3.50 comes standard with Laser Interface+ and a number of additional options are available to enhance your laser processing capabilities. All Universal laser platforms use interchangeable components, giving you the ability to tailor your system to fit your needs.

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System Specifications

Work Surface Area	24 x 12 in (610 x 305mm)
Maximum Part Size	26.75 x 14.6 x 4 in (679 x 368 x 102mm)
Dimensions	34 x 14 x 25 in (864 x 356 x 635 mm)
Rotary Capacity	Max Diameter 5 in (127 mm) with 1.5 in (38.1 mm) lens Min Diameter 1 in (25.4 mm) with 2 in (50.8 mm) lens
Motorized Z Axis Lifting Capacity	20 lbs (9 kg)
Available Focus Lenses CO2	1.5 in (38 mm) 2.0 in (51 mm) *standard
Laser Platform Interface Panel	Five button keypad
Operating System Compatibility	Requires a dedicated PC to operate. Compatible with Windows XP/Vista/7 32/64 bit
PC Connection	USB 2.0
Optics Protection	Plumbed for compressed-air-based optics protection.
Cabinet Style	Desktop
Laser Options	10, 25, 30, 40, and 50 Watts
Approximate Weight	95 lbs (43 kg)
Power Requirements	110V/10A or 220V-240V/15A
Exhaust Connection	One 3 in (76 mm) port 250 CFM @ 6 in static pressure (425 m3/hr at 1.5 kPa)

System Features

- Laminated Safety Glass
- Over-temp Alarm (for fire safety)
- Multiple Automatic Focusing Modes
- Precision Digital Motors
- Multiple Language Support
- Permanently Sealed Bearings
- Proportional Pulse Control
- Stretch-Free Kevlar[®] Belts

Laser Features

- Laser Fan Control (to reduce noise)
- Smart Lasers
- Laser Pointer
- Wide Selection of Power Levels
- Air-Cooled Laser Cartridge
- Patented Permalign[™]
- No Optical Beam Alignment Required
- Patented Cross-Platform Compatibility
- Patented Free-Space Gas Slab Laser Design
- High Reliability, Excellent Power Stability
- Warranty Available Up To 5 Years

