

VLS Platform Series

Flexibility for Growing Businesses

The VLS3.60, VLS4.60 and VLS6.60 freestanding laser platforms offer increased maximum laser power levels and larger working areas than the desktop models. In addition, VLS freestanding laser platforms are equipped with Universal Laser Systems' patented Rapid Reconfiguration™ technology, so laser sources can be installed, removed and exchanged in seconds without the use of tools. The increased workspace, power and flexibility of the VLS freestanding laser platforms make them a good choice for a growing business.



Laser Technology Benefits

- ▶ **Software Controlled** - Any Windows®-based software with a print function can be used with the laser system.
- ▶ **Multi-Material** - Process an endless number of materials.
- ▶ **Multi-Process** - Cut, engrave, mark and produce photo images in one step.
- ▶ **Non-Contact** - Modify material without applying any physical force.
- ▶ **On-Demand** - Produce everything you need in real time, without waiting for hard-tooling.

Uniquely Universal Features

▶ Laser Sources

Our patented, metal core, air-cooled, free-space slab, CO₂ lasers produce excellent beam quality with even power distribution, good near-field and far-field characteristics and long life. Dual lasers dramatically increase speed, edge quality and power.

▶ Rapid Reconfiguration™

Unique to ULS, Rapid Reconfiguration allows our modular platforms to be field-reconfigured with a variety of laser sources, optics & accessories, in seconds and without tools. Easily exchange laser wattage to change peak power and increase speed and throughput.

▶ Universal Control Panel (UCP)

Our exclusive integrated materials database in the UCP print driver automatically determines the optimum processing settings for your target material. Just select the material type, enter the material thickness and press "start."

▶ High Power Density Focusing Optics™

High Power Density Focusing Optics (HPDFO™) allow the laser beam to be focused to a much smaller spot, making it possible to engrave smaller text and produce sharper images at tighter tolerances.

▶ 1-Touch Laser Photo™

1-Touch Laser Photo is our popular software package that makes it quick and easy to reproduce stunning photographic images on nearly any material.

System Specifications

	VLS3.60	VLS4.60	VLS6.60
▶ Work Surface Area (WxH)	24 x 12 in (610 x 305 mm)	24 x 18 in (610 x 457 mm)	32 x 18 in (813 x 457 mm)
▶ Maximum Part Size¹ (WxHxD)	29 x 17 x 9 in (737 x 432 x 229 mm)	29 x 23 x 9 in (737 x 584 x 229 mm)	37 x 23 x 9 in (940 x 584 x 229 mm)
▶ Dimensions (WxHxD)	36 x 38 x 30 in (914 x 965 x 762 mm)	36 x 39 x 36 in (914 x 991 x 914 mm)	44 x 39 x 36 in (1118 x 991 x 914 mm)
▶ Rotary Capacity	Max. Diameter 8 in (203 mm).		
▶ Motorized Z-Axis Lifting Capacity	40 lbs (18 kg)		
▶ Available Focus Lenses	2.0 / HPDFO™		
▶ Laser Platform Interface Panel	Five-button keypad		
▶ Computer Requirements	Requires dedicated PC with Windows® 7/8/10 32/64 bit and one available USB port (2.0 or higher).		
▶ Cabinet Style²	Free-standing		
▶ Laser Options	10, 25, 30, 40, 50, 60 watts		
▶ Approximate Weight	235 lbs (107 kg)	270 lbs (122 kg)	325 lbs (147 kg)
▶ Power Requirements	110V/10A; 220V-240V/5A		
▶ Exhaust Connection	One 4 in (102 mm) port 250 CFM @ 6 in static pressure (425 m³/hr at 1.5 kPa).		Two 4 in (102 mm) ports 500 CFM @ 6 in static pressure (850 m³/hr at 1.5 kPa).

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CDRH Class 1 safety enclosure for CO₂ laser². Class 2 for red laser pointer.

¹ Maximum part size defined as used with 2.0 lens.

² CDRH Class 1 laser safety enclosure provides for safe operation without the need for an interlocked room or protective eyewear.



WARNING: UNIVERSAL LASER SYSTEMS PRODUCTS ARE NOT DESIGNED, TESTED, INTENDED OR AUTHORIZED FOR USE IN ANY MEDICAL APPLICATIONS, SURGICAL APPLICATIONS, MEDICAL DEVICE MANUFACTURING, OR ANY SIMILAR PROCEDURE OR PROCESS REQUIRING APPROVAL, TESTING, OR CERTIFICATION BY THE UNITED STATES FOOD AND DRUG ADMINISTRATION OR OTHER SIMILAR GOVERNMENTAL ENTITIES. FOR FURTHER INFORMATION REGARDING THIS WARNING CONTACT UNIVERSAL LASER SYSTEMS OR VISIT WWW.ULSINC.COM.

ULS laser systems are protected under one or more of U.S. Patents: 5,661,746; 5,754,575; 5,867,517; 5,881,087; 5,894,493; 5,901,167; 5,982,803; 6,181,719; 6,313,433; 6,342,687; 6,423,925; 6,424,670; 6,983,001; 7,060,934; 7,415,051; 7,469,000; 7,715,454; 7,723,638; 7,947,919; 8,101,883; 8,294,062; 8,599,898; 8,603,217; 8,101,883; 8,294,062; 8,599,898; 8,603,217; 9,155,988; 9,263,844; 9,263,845; 9,281,649; 9,346,122; 9,354,630; D517,474. Other U.S. and international patents pending. Made in the U.S.A.

The VLS Desktop system has been awarded U.S. Design Patent No. D517,474 for the unique design of its external cabinet, which also functions as a Class 1 laser safety enclosure.

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