VLS3.60ES LASER SYSTEM

The new VLS3.60ES is a compact desktop laser system designed for multi-user environments such as educational settings, laboratories, and shared spaces within businesses. For operators, it offers a rich set of features and capabilities that enhance productivity, operational efficiency, usability, and safety. For administrators, it provides access control and support capabilities to effectively monitor and manage system use and performance.

VLS3.60ES Desktop Laser System

ADVANCED PRODUCTIVITY, OPERATIONAL EFFICIENCY, USEABILITY, SUPPORT, AND SAFETY

The VLS3.60ES laser system features a 24 x 12-inch (610 x 305 mm) material processing area equipped with an integrated camera vision system to aid users in precisely aligning design files with materials placed on the laser processing support surface.

The desktop is driven by the user-friendly, yet powerful control software, Laser System Manager, with capabilities beneficial for beginning and advanced users as well as administrators such as:

- Access Management and Usage Monitoring
- Device and Design Software Compatibility
- Laser Parameter Optimization Flexibility

With advanced diagnostic, reporting and troubleshooting tools, errors can be rapidly diagnosed and resolved for more uptime. Features include Enhanced Error Detection and Diagnostics and Remote Troubleshooting.

Additionally, its robust design and set of safety features help minimize potential hazards for safe laser processing. Safety features include laminated safety glass, redundant safety interlocks, Overtemperature Detection Alarm, Emergency Stop (E-Stop) Push Button, and Enhanced Fault Detection to monitor the status of the laser source and any accessories installed. For added protection, an optional Fire Suppression Assistance Module is also available.

KEY FEATURES AND CAPABILITIES

- 24 x 12-inch (610 x 305 mm) material processing area
- Air-cooled CO2 Laser Sources available in a variety of powers and wavelengths:
  - 10, 30, 40, 50 and 60 W 10.6 µm
  - 10, 30 and 50 W 9.3 µm
- Safety features like Overtemperature Detection, E-Stop Push Button, and Enhanced Fault Detection
- Camera Vision System for easy visual design file alignment
- Manual Gas Assist with Optics Protection
- Laser System Manager control software with Intelligent Materials Database of common materials

Options Available

- Flow-Through Cutting Table
- Rotary Fixture
- Coaxial or Lateral Gas Assist Attachment
- HPDFO™ (High Power Density Focusing Optics)
- 1-Touch Laser Photo™ Software
- UAC 2000 Air Filtration
- Air Cleaner Cart
- Air Compressor
- Automation Interface
- Fire Suppression Assistance Module

VLS3.60ES Desktop Camera Vision System

VLS3.60ES Desktop shown with optional Air Cleaner Cart

SignVec™
WWW.SIGNVEC.COM

UNIVERSAL® LASER SYSTEMS

SPECIFICATIONS*

Cabinet Style	Desktop
Laser Material Processing Area (W x H)	24 x 12 in. (610 x 305 mm)
Maximum Part Size (W x H x D)	26.75 x 14.6 x 4 in. (679 x 370 x 102 mm)
Rotary Capacity	Max. Diameter 5 in. (127 mm); Min. Diameter 0.5 in. (12.7 mm)
Motorized Z-Axis Lifting Capacity	20 lbs. (9 kg)
Focus Lens	2.0 in. (50 mm)
Focus Method	Programmable and Manual Focus
Laser Options	Air-cooled Laser Sources: 10.6 µm wavelength CO2: 10, 30, 40, 50 and 60 watts 9.3 µm wavelength CO2: 10, 30 and 50 watts
Optics Protection	Integrated with Manual Gas Assist
Gas Assist	Manual Gas Assist (with Optics Protection) (requires air source)
Safety	Overtemperature Detection (Audible Alarm) Emergency-Stop Push Button Automatic Fault Detection
Desktop Interface Panel	Push-Button Control Pad
Control Software	Laser System Manager (LSM) with Intelligent Materials Database
Camera Vision System	Door-mounted camera for visual alignment of design files
Computer Requirements	Dedicated PC with Windows® 10/11 32/64 bit or dedicated Mac running MacOS 10 or higher and one available USB port (2.0 or higher)
Overall Dimensions (W x H x D)	34 x 14 x 25 in. (864 x 356 x 635 mm)
Approximate Weight	95 lbs. (43 kg)
Power Requirements	110V/10A; 220V-240V/5A
Exhaust Connection	One 3 in. (76 mm) port 250 CFM @ 6 in. static pressure (425 m3/hr. at 1.5 kPa)
Standard Warranty	1 year

AVAILABLE OPTIONS

Focus Lenses**	HPDFO™ (High Power Density Focusing Optics)
Gas Assist	Coaxial Gas Assist Attachment Lateral Gas Assist Attachment Compressed Air Source
Air Filtration and Handling	UAC 2000 Filtration System Air Cleaner Cart
Material Handling	Flow-Through Cutting Table Rotary Fixture
Productivity Enhancer	Automation Interface
Fire Suppression	Fire Suppression Assistance Module
Software	1-Touch Laser Photo™
Extended Warranty	Up to 5 years for system and laser sources

**Specifications are based on the 2.0 in. (50 mm) focus lens.*

About ULS

Universal Laser Systems, Inc. is a global company with over 35 years of experience developing and manufacturing advanced, flexible, and versatile laser equipment, designed for a broad range of materials and applications. With an unwavering commitment to excellence, we help organizations overcome complex material processing challenges, expand their capabilities to process new materials, and enhance the efficiency of processing established materials.

REV2025.03

Signvec Technology Pte Ltd
10 Ubi Crescent #05-35, Ubi Techpark, Singapore 408564

Signvec Technology (M) Sdn Bhd
6-1, Jalan Angsana 2, Taman Bukit Angsana, Cheras 56000 Kuala Lumpur, Malaysia

Tel: +65 6749 7337 Email: enquiries@signvec.com