

ULTRA R5000 LASER SYSTEM

The ULTRA R5000 offers a 32 in x 24 in (813 mm x 610 mm) material processing area.

It can be configured in a CO₂ only configuration (10.6 or 9.3 μm) or a multiple wavelength configuration (CO₂ and fiber). A maximum of 150 watts of laser power is supported in a CO₂ only configuration. A maximum of 150 watts CO₂ and 300 watts fiber is supported in a multiple wavelength configuration.



ULTRA R5000

KEY FEATURES AND CAPABILITIES

- Supports two lasers – (2) CO₂ sources or (1) CO₂ and (1) fiber laser source
- Patented Multi-Wave Hybrid™ technology
- Supports material thickness up to 12 in (305 mm)
- Precision Material Independent Autofocus
- Patented Controllable Laser Power Density Optics
- Programmable Gas Assist
- Laser System Manager control software
- Intelligent Materials Database
- Rapid Reconfiguration™ technology

Configuration Components Available

- Multi-Camera Vision and Registration
- Patented SuperSpeed™ technology
- 21 in (533 mm) Touch Screen Control Panel
- Fire Suppression Assistance Module
- Automation Interface
- UAC 4000 Air Filtration

SPECIFICATIONS*

Material Processing Envelope (X,Y,Z)	32 x 24 x 12 in. (813 x 610 x 305 mm)
Maximum Effective Raster Processing Speed	Equivalent to more than 200 in./sec (equivalent to more than 5080 mm/sec); <i>Requires SuperSpeed™ configuration</i>
Multiple Laser Support / Maximum Laser Power	Up to 150 watts with (2) 75 watt CO ₂ laser sources or (1) 150 watt CO ₂ laser source; Up to 150 watts CO ₂ and 300 watts fiber in a multiple wavelength configuration; <i>Supports Rapid Reconfiguration™ of CO₂ lasers</i>
Wavelengths / Laser Sources Available	10.6 μm CO ₂ : 10, 30, 40, 50, 60, 75 and 150 watt laser sources 9.3 μm CO ₂ : 10, 30, 50, 75 and 125 watt laser sources 1.06 μm Fiber: 50 and 300 watt laser sources
System External Dimensions	Width: 55.00 in. (1397 mm) without Control Panel Depth: 46.32 in. (1177 mm) Height: 48.00 in. (1219 mm) to top of enclosure e-stop
Weight	400 lbs. (181 kg)
Power Requirements	220-240V/16A
Exhaust Requirements	Intelligent Air Filtration (UAC 4000) or External Exhaust Blower Capable of >700 CFM at 6 in. WG Static Pressure (1190 m3/hr. at 1.5 kPa); 6 in. (152mm) Exhaust Port
Computer Requirements	Minimum: Intel i3 processor (or equivalent) with at least 8 GB of memory, Windows 10/11 operating system and connection to laser system with USB cable; <i>Not required if configured with available 21" Touch Screen Control Panel</i>
Laser Safety Classification	Class 1 for material processing lasers; Class 2 overall due to red laser pointer; Can convert to Class 4 with optional Class 4 module

*All available configuration modules and full specifications are provided on the ULS website and are subject to change.

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.



Universal laser systems are protected under one or more U.S. Patents: 7,723,638; 7,947,919; 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; 9,694,448; 9,737,958; 10,391,345; 10,456,875; 11,198,193. Other U.S. and international patents pending.

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