

# ULTRA R9000

## LASER SYSTEM

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The ULTRA R9000 is the largest laser system in the ULTRA series with a 48 in x 24 in (1219 mm x 610 mm) material processing area.

The ULTRA R9000 can be configured in a CO<sub>2</sub> only configuration (10.6 or 9.3 µm) or a multiple wavelength configuration (CO<sub>2</sub> and fiber). A maximum of 300 watts of laser power is supported in a CO<sub>2</sub> only configuration. A maximum of 150 watts CO<sub>2</sub> and 50 watts fiber is supported in a multiple wavelength configuration.



ULTRA R9000

### KEY FEATURES AND CAPABILITIES

- Supports two lasers – (2) CO<sub>2</sub> sources or (1) CO<sub>2</sub> 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
- Automation Interface
- UAC 4000 Air Filtration

## SPECIFICATIONS\*

<b>Material Processing Envelope (X,Y,Z)</b>	48 x 24 x 12 in. (1219 x 610 x 305 mm)
<b>Maximum Effective Raster Processing Speed</b>	Equivalent to more than 200 in./sec (equivalent to more than 5080 mm/sec); <i>Requires SuperSpeed™ configuration</i>
<b>Multiple Laser Support / Maximum Laser Power</b>	Up to 300 watts with (2) CO <sub>2</sub> laser sources; Up to 150 watts CO <sub>2</sub> and 50 watts fiber in a multiple wavelength configuration; <i>Supports Rapid Reconfiguration™ of CO<sub>2</sub> lasers</i>
<b>Wavelengths / Laser Sources Available</b>	10.6 µm CO <sub>2</sub> : 10, 30, 40, 50, 60, 75 and 150 watt laser sources 9.3 µm CO <sub>2</sub> : 10, 30, 50 and 75 watt laser sources 1.06 µm Fiber: 50 watt laser source
<b>System External Dimensions</b>	Width: 71.00 in. (1803 mm) without Control Panel Depth: 46.32 in. (1177 mm) Height: 48.00 in. (1219 mm) to top of enclosure e-stop
<b>Weight</b>	500 lbs. (227 kg)
<b>Power Requirements</b>	220V-240V/16A (300 watt configuration requires high power kit and 25A)
<b>Exhaust Requirements</b>	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. (152 mm) Exhaust Port
<b>Computer Requirements</b>	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>
<b>Laser Safety Classification</b>	Class 1 for material processing lasers; Class 2 overall due to red laser pointer; Can convert to Class 4 with optional Class 4 module

\*Full specifications are available 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](http://WWW.ULSINC.COM).



Universal laser systems are protected under one or more U.S. Patents: 7,060,934; 7,415,051; 7,715,454; 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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ULTRA R9000 PRODUCT SPECIFICATIONS