XL9000 / XL12000

Laser Engraving and Cutting Systems
Safety, Installation, Operation,
and Basic Maintenance Manual

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Introduction

We would like to thank you for your laser system purchase. Universal Laser Systems, Inc. (ULS) is the pioneer, and highest volume manufacturer, of large field, computer controlled laser engraving, marking, and cutting systems. ULS has devoted years of research and development to further the quality of our products that has resulted in a number of remarkable innovations within the laser industry. Since 1988, the staff at ULS has been dedicated to total customer satisfaction. When you buy Universal you get more than a laser - you get a team of talented, experienced, enthusiastic people who are focused on your satisfaction. Our commitment is to help you now and in the future.

To begin with, we highly recommend that this entire manual be read before attempting to use your laser system. The manual includes important information about safety, assembly, use, troubleshooting, and basic maintenance.

How to Get Help

Before contacting our Technical Support Department, make sure that you have read this entire manual as well as any other accompanying manuals included with your laser system. The Troubleshooting Guide, found within this manual, is very comprehensive and provides the answers to frequently asked questions.

Step 1:
Try to recreate the problem and write down the circumstances in which the problem occurred. Try to recall if the problem began all of a sudden, worsened over time, or began after you performed any recent maintenance. Also be prepared to describe all pertinent information about the computer being used such as software, ULS printer driver version, computer operating system and computer type.

Step 2:
Make sure that you have the serial number of the laser system available. The serial number tags are located on the back of the machine, next to the exhaust port, and inside the front door, visible when you open it. The Technical Support Department may not be able to assist you without this number.

Step 3:
Contact your local ULS Representative. They may have more details about your particular installation and applications. If possible, call from a phone that is close to the laser system so that it can be operated while talking to our representative.

Step 4:
If your local Sales Representative cannot assist you and you would like to use our **FREE**, email based support system, log on to our website: www.ulsinc.com. Click on the "Technical Support " link, then click on the "Technical Support Request Form" and follow the instructions.

Step 5:
If you are unable to obtain Internet access, you may contact our Technical Support Department at:

Universal Laser Systems, Inc.
Technical Support Department
16008 North 81st Street
Scottsdale, AZ 85260
Phone: 480-609-0297
Fax: 480-609-1203
M-F 8am – 5pm Arizona Time

XL Laser Systems:

Specifications:

	XL-92000	XL-12000
Laser Power	See Laser Options	See Laser Options
Field Size	36"x24" (41.5"x29.5" max part)	48"x24" (53.5"x29.5" max part)
Z axis	8.5" motorized	8.5" motorized
Overall dimensions	56"w x 48"d x 48"t	68"w x 48"d x 48"t
Weight	500 lbs (without laser)	600 lbs (without laser)
Max Speed	100 in/sec 70 in/sec w/traveling exhaust	100 in/sec 70 in/sec w/traveling exhaust
Max Resolution	1016 dpi	1016 dpi
Computer interface	Ethernet	
File storage	40 Gb hard drive built in	
Controls	Active Matrix color display with job preview and navigation keypad	
Power	See Laser Options	See Laser Options
Cooling	Air Cooled	
Z-Axis load	60 lbs	60 lbs
Software compatibility	Windows XP only	

Laser Configurations:

	MP120 and MP120 SuperSpeed	HP210	HP300
Laser Power	Up to 120 watts (2 x 60 watts)	Up to 210 watts (150 watts + 60 watts)	300 watts (2 x 150 watts)
Laser Weights	UL 25/30 (20 lb) UL-35/40 (23 lb) UL-45/50/60 (26 lb)	UL 25/30 (20 lb) UL-35/40 (23 lb) UL-45/50/60 (26 lb) UL-150 (90 lb)	180 lb
Machine Power Requirements	15 amps @ 220V	25 amps @220V	20 Amps @220V 3Ø

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