

ULS Installation Software v5.24.38 Release Notes

The following document contains information for:

- ☐ **Software Corrections – Version 5.24.38**
Corrections for v5.21.33-5.24.37 and upgrade to all 2.N.N and 4.N.N version software
- ☐ **New Functionality – Version 5.24.38**
New functionality has been added to the software v5.24.38



NOTE:

Before installing the new software the old software must be un-installed.

Contacts:

If you find a problem with the software please contact ULS Customer Service at support@uls.at

SOFTWARE CORRECTIONS - VERSION 5.24.38

Corrections for v5.21.33 - 5.24.37 and upgrade to all 2.N.N and 4.N.N version software

Retrieval of Serial Number (All Systems)

1. Older type serial numbers are retrieved and displayed. New 22 digit serial numbers can be entered into the system via a hidden dialog from the system view.

Axis Homing and Axis Jog Motions (All Systems)

1. XY homing repeatability has been improved on all systems.
2. ILS Z axis accuracy is improved via encoder correction. An ILS system will correct for Z axis slippage if the Z axis slips less than 6,35mm mils. Slippage distances larger than 6,35mm are not corrected and have to be reported to Service Department for corrective action.
3. Z axis homing speed, acceleration and deceleration factors have been reduced on all systems to improve focal height accuracy and repeatability. As a result, there will be an increase in noise on the Z axis and the axis travel will be slower.
4. XY jog speed has been changed so that there are three speed zones. Jog motion starts with 2,54 mm per second for 2,54 mm then changes velocity to 10,16mm per second for 25,4mm inch and then finally settles at 50,8mm per second. The result is a more accurate positioning with the red dot pointer.

Large File Memory Performance (All Systems)

1. Large print/job files do not consume all the physical memory available.
2. Pause/Resume releases memory.

Vector Cutting & Scribing (All Systems)

1. Vector cutting is consistent throughout the image or print file.
2. When using multiple pens and pause/resume is applied, the resumed pen will have the correct power, speed and pulses per inch settings.
3. Straight lines defined with three points that meet at a shallow angle preserve the integrity of the straight line and does not convert the path/contour to a shallow curve.

Raster Engraving (All Systems)

1. Raster print files which contain the same stroke length patterns will accurately engrave for an infinite amount of passes.

Z Axis Errors with Cutting Table (All Systems)

1. Z axis errors encountered when removing the cutting table have been solved in this version.

Z Axis Errors with Rotary Fixture (All Systems)

1. Z axis errors encountered when using the Rotary fixture is solved in this version.

Cutting Table Calibration (All Systems)

1. Cutting table position is accurately stored.

Rotary Fixture (All Systems)

1. Rotary Y axis and Z axis calibrations are operational.
2. Rotary files printed from materials database will focus correctly when auto Z option is used.

LAS files (All Systems)

1. LAS files save Texturizer and Frame Raster attributes.

Homing Options (All Systems)

1. Don't Go Home After Engraving option works consistently.

Image Relocation (All Systems)

1. Relocation handles for raster and vector images are now placed on the edge of the image rather than 3mm around image.
2. Rotary file images can be relocated correctly.

Materials Database Cloning of Materials (All Systems)

1. When a material is cloned, the material name defined by the user appears in the current language selected, as well as all other languages that can be selected by user.

Vector & Raster Pause/Resume (VLS2.30 & 3.50 Systems)

1. VLS Y axis moves to the correct location after a pause is issued when top door is open.

Lens Detection (ILS)

1. 3.0 lens is correctly detected and used.

Auto Focus (ILS)

1. ILS 3.0 focal lens calibration offset is persistent, is stored and retrieved correctly.

NEW FUNCTIONALITY – VERSION 5.24.38

New functionality has been added to the software v5.24.38

Installer (All Systems)

1. All systems have been integrated into one installer.
2. Installer will install a text file named Readme.txt that will contain latest corrections and new functionality information. File is stored in Program Files\ULS directory.
3. Installer allows users to install Universal Control Panel Software/Firmware and Printer Drivers separately.

Axis Homing (All Systems)

1. Homing Options: Don't Return Home, Disable Auto Z Homing and Home XY before Engraving are available on all systems.
2. When Z is homing there is splash dialog displayed in the View panel. Once homing is complete the dialog removes itself.

Image Relocation (All Systems)

1. Relocation function has an undo selection. A relocated image can be undone until it is placed at its originally printed position.

Display of Print Files/Jobs (All Systems)

1. The Print Cache will display job files that are related to the system model connected to the software.
2. If a system is not connected, the print cache will display the last connected system's job files.
3. VLS and PLS job files are merged into one print queue to preserve backwards compatibility.
4. Print queue size is still limited to 2000 job files. If a job file is printed when the print queue is full, the first job file in the current print queue (VLS/PLS or ILS) will be deleted.

Pen Settings (All Systems)

1. Only power, speed and pulses per inch are allowed to be changed when system is scribing, engraving or cutting.

Print Driver (All Systems)

1. PLS 3.75, 4.75, 6.75 and 6.150D are included.
2. Vector Engraving: A slider has been provided for users to adjust throughput against image quality. A differential impact in performance can be observed for vectors when the slider is set at Quality or Throughput. The default setting is standard.
3. Print file tuning has been defaulted to a value of 0.

Laser Tuning for Vectors (All Systems)

1. Pulse calibration selection allows laser to be compensated for pulsing. Settings changes from a default zero value requires factory approval and training.

ULS Compressor Behavior (All Systems)

1. A twenty five (25) second delay is enforced for the compressor between the start of jobs if they are run consecutively. This delay is to allow the compressor to bleed down and it preserves the life of the compressor.
2. A five second delay is enforced on start-up of every job to allow the pressure to build up.

External Air Assist (VLS & PLS Systems)

1. VLS systems contain a Detect Air Pressure enable/disable button on the SYSTEM tab. Selecting this option will enable air detection in VLS systems. If sufficient air pressure is not present ($>0,1$ bar), then an error message is displayed.

External Air Assist (ILS Systems)

1. ILS systems, when equipped with a cone or back-sweep, automatically detect air pressure. If external air is used, then this signal is routed via a pressure switch into the CPU electronics for detection. This signal is then used to post the Pressure OK or Low Pressure message in the DIAGNOSTICS view.

Auto Focus (ILS Systems)

1. Auto focus offset calibration needs to be performed for one lens only providing all other lenses have been calibrated. All other lens offsets for auto focus are re-calculated from the newly detected AF sensor height.
2. Auto Focus Offset dialogs have changed for the ILS system.
3. ILS Auto Focus Sensor calibration dialog can be enabled by typing ALT+SHIFT+2.

Auto Focus (PLS Systems)

1. Auto focus offset calibration needs to be performed for one lens only providing all other lenses have been calibrated. All other lens offsets for auto focus are re-calculated from the newly detected AF sensor height.
2. Auto Focus Offset dialogs have changed for the PLS system.
 - a. Users can use the dialog in the SYSTEM view if they want to set the offset using the engraving table.
 - b. Users can also use ALT+SHIFT+2 to set the auto focus offset if they want to use a material and focus tool or the material

thickness is known. ALT+SHIFT+ 2 should be executed after selecting the offset calibration dialog and selecting CANCEL.

Diagnostics View (All Systems)

1. Twenty two (22) digit serial number is displayed.
2. Materials Database, Language Database and Printer Settings Library version numbers are displayed.
3. USB latency check feature is added. In order to test the latency effects of your computer, select the TEST button and wait for 10 seconds. The latency information will appear. There are two latencies listed: an average latency and a maximum latency.
4. Runtime diagnostics are displayed for real-time service support.
5. ALT+I allows user to save the initialization log file in notepad format. This file can be uploaded to ULS for additional diagnostics.
6. ALT+E allows user to save the error log in notepad format. This file can be uploaded to ULS for additional diagnostics.

System Serial Number (All Systems)

1. Twenty two (22) digit serial number can be entered into the System. Contact Customer Service, support@ulsinc.com, for entry details.

Error Messages (All Systems)

1. All error messages consist of a unique number and we are requesting customers report the number only.