

## AutoCAD 2000i, 2002 and 2004

**Note:** AutoCAD version 2000 is not compatible with ULS laser systems. You must upgrade to version 2000i or higher. Also, we recommend installing ULS printer driver version 5.24.38 or higher.

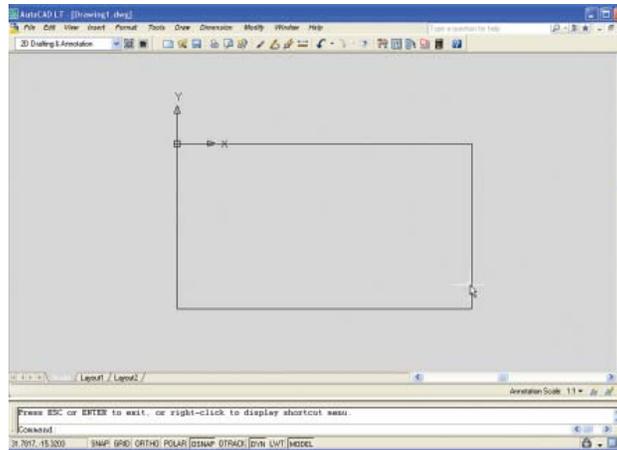
1. Make sure the ULS Printer driver is installed prior to setting up AutoCAD.
2. If AutoCAD is already installed and you are simply upgrading ULS printer drivers:
  - Close all open programs.
  - In Windows, Click Start>Printers & Faxes.
  - Delete ALL ULS drivers from the Printers (Printers and Faxes) folder.
  - With the Printers and Faxes folder still open, click File>Server Properties>Drivers and remove ALL ULS printer drivers from the list. Close Printers & Faxes.
  - Using Windows Explorer, search for all files and folders with a .pc3 extension, then delete all ULS Printer pc3 files (i.e. VLS360.pc3).
  - Next, search for files with a .pmp extension and delete all ULS Printer .pmp files (i.e. VLS360.pmp).
  - Reboot the PC.
3. Start AutoCAD and open a new drawing.
4. Click File>Plotter Manager and double-click Add a Plotter Wizard. If the Autodesk Hardcopy System window appears, select the version of AutoCAD you are using, and then click Continue.
5. Click Next. Select System Printer and then click Next.
6. Select the appropriate ULS Printer Driver and then click Next.
7. DO NOT click the Import file button, simply click Next.
8. You may edit the plotter name, if desired, and then click Next.
9. Click on Modify Standard Paper Sizes (Printable Area) in the Device and Document Settings Tab window, and then click the Modify button. Change ALL margins to 0.00, and then click Next.
10. Edit the PMP file name if you desire then click Next. DO NOT click the Print a Test Page button, instead click Finish. Click OK to exit the Plotter Configuration Editor window and then click Finish.
11. Click File>Page Setup and then select the Plotter Configuration name and pc3 name (not the driver) from the dropdown list.
12. If you would like to change the drivers settings, click the Properties button, then click the Custom Properties button. Make your changes and then click OK and then OK again.
13. Click New to create a new Plot Style table to set your pen widths. As a default, the ULS print driver produces vector output when pen widths are set to 0.001 inches (0.025 mm). If the pen widths are set between 0.002 – 0.008 inches (0.050 – 0.20 mm), then the ULS print driver may or may not convert the lines to raster images. This will depend on the image being plotted, therefore it is recommended that for colors requiring vector output, set the pen widths to 0.001 inches (0.025 mm) and for colors requiring raster output, set pen widths greater than 0.008 inches (0.20 mm).
14. Now, select Start from Scratch, and then click Next. Enter a name and then click Next. Click the Plot Style Table Editor button. Click Color one, hold the shift key on your keyboard and click colors two through seven. You can only use colors one through seven with the ULS printer driver. With all seven colors highlighted, click the Edit Lineweights button and then select the units desired. Add a lineweight of 0.001 inches (0.025 mm) to the Value column by clicking on Edit Lineweight and entering 0.001 (or 0.025 for metric settings). Click OK, click Save & Close and then click Finish.
15. Click the Layout Settings tab and set the Plot Scale to 1:1.
16. AutoCAD is now set up properly to work with the ULS printer driver.

## AutoCAD LT 2007 & 2008

**Note:** These instructions are for plotting from “Model Space.” Also, we recommend installing ULS printer driver version 5.24.38 or higher.

### 1. SET DRAWING LIMITS

- a. From the Main Menu select **FORMAT** → **DRAWING LIMITS**  
 This will allow you to enter the model space limits of your Universal laser system work table size. For example, if your work table size is 32”x18” (813 x 457 mm), you would set the following drawing limits:
  - i. For the lower left position type in 0, -18 at the command line and press ENTER.
  - ii. For the upper right position type in 32, 0 at the command line and press ENTER.
  - iii. Objects to be plotted should be located within these set drawing limits.



### 2. ADD NEW PLOT STYLE

- a. From the Main Menu select **FILE** → **PLOT STYLE MANAGER**
- b. From the Explorer Window double-click **Add-A-Plot Style Wizard**. The **Start from Scratch Wizard** will pop up.
- c. Select **Start from Scratch** and click **NEXT**.
- d. Select **Color-Dependent Plot Style Table** and click **NEXT**.
- e. Enter a file name (i.e. “Laser”) and click **NEXT**.
- f. Click on the **Plot Style Table Editor**.
- g. Select **Edit Line weights** and click **inches**.
- h. Click **Edit Line Weights** button and enter a **VALUE** of 0.001 inches (0.025mm) and click **OKAY**.
- i. Hold down the **Control Key** and select **Colors 1-7** with the left button of your mouse.
- j. Click the **Save and Close** button.
- k. Check the box “**Use this Plot Style for New and pre-AutoCAD LT 2007 Drawings**” and click **FINISH**.
- l. Close out the **PLOT STYLES** pop up.



**Note:** For colors requiring Vector output, pen widths should be set to 0.001 inches (0.025mm), and for colors requiring Raster output, set pen widths to greater than 0.008 inches (0.203mm). VersaLASER can only plot Black, Blue and Red.

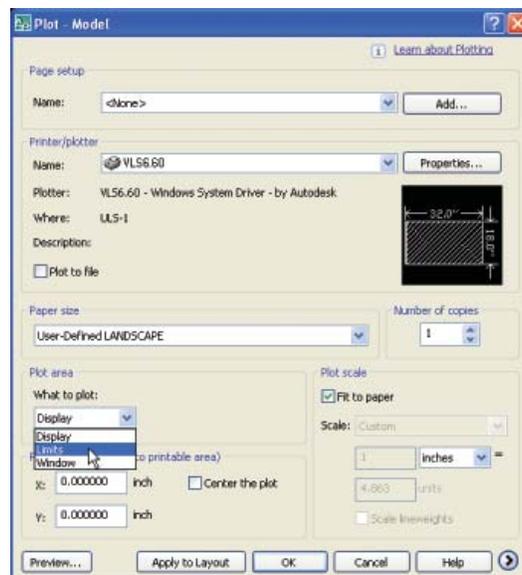
### 3. ADD NEW PLOTTER

- a. Select FILE → PLOTTER MANAGER
- b. Select ADD-A-PLOTTER WIZARD and click NEXT.
- c. Select System Printer and click NEXT.
- d. Select your Universal Laser System (i.e. VLS6.60) and click NEXT.
- e. Click the Edit Plotter Configuration button and select Modify Standard Paper Size (Printable Area).
- f. Select User-Defined LANDSCAPE (Modify) and change the margin values to zero.
  - Top = 0.0
  - Bottom = 0.0
  - Left = 0.0
  - Right = 0.0
- g. Click NEXT → YOUR SYSTEM (i.e. VLS6.60) → Next → Finish → OKAY → FINISH
- h. Close out the PLOT STYLES pop up.

### 4. PLOTTING TO LASER

Select drawing to plot. Objects should be located within specific drawing limits/area for best results.

- a. Click FILE → PLOT
- b. Set Printer/Plotter to your laser system (i.e. VLS6.60)
- c. Set Paper Size to User-Defined LANDSCAPE.
- d. Set Plot Area → What to Plot → Limits
- e. Set Plot Scale → Scale → 1:1
- f. Set Plot Offset → X = 0.0 → Y = 0.0



**Note:** Always preview before outputting to laser system.