

ALLEN DATAGRAPH

Technical Support Bulletin: Using Corel Draw with Allen Printer Driver

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Corel Draw has a 16-bit graphics driver and the Allen Datagraph Cutter driver is a 32-bit driver. This difference in technology requires some care in getting the programs to work together.

The Corel Draw 16-bit graphics driver is limited to 32767 units of measure so at 1016 DPI the page size is limited to 32 inches square. The table below shows the maximum DPI setting for the Image sizes. You should select the paper size shown in the Max Image Size column.

Min Image Size	Max Image Size	DPI
0" (0 cm) x 0" (0 cm)	32" (81 cm) x 32" (81 cm)	1016
32" (81 cm) x 32" (81 cm)	64" (162 cm) x 64" (162 cm)	508
64" (162 cm) x 64" (162 cm)	129" (327 cm) x 129" (327 cm)	254

If you do not limit the media size / DPI setting as shown in the above table Corel Draw will clip or scale the output.

At lower DPI the end points of the cut lines are placed into quants. At 1016 DPI you have full resolution of the cutter, at 508 you only have only even numbered end points, at 254 all end points are divisible by 4, etc. This causes some inaccuracies in the end point placement and can cause distortions in the plotted image. If you have larger images and you want the higher accuracy you must use the Allen Print utility.

If your cutter has firmware revision 2.13 or less you must disable the Polyline Encoded HPGL command.

To disable the PE HPGL command

Click Start, [Settings], Control Panel, Printers and Faxes

Right Click on the Allen Datagraph Cutter driver and select properties

Select the Device Settings Page

Select the down arrow next to Output Polyline Encoded and select Off.


Click on OK

Corel Draw Tutorial

The instructions below are a step-by-step tutorial to plot a 2 inch square with Corel Draw.

Open Corel Draw to a blank image.

Draw a 2 inch rectangle and place it on the media.

Select the fill tool 

Click on X for no fill

Click on file, print

Select cutter driver

Click on properties button

Click on + in front of paper/output tree node

Select Paper Size

Click on arrow next to Paper Size

Select 32 inch x 32 inch

Click on Print Resolution

Click on arrow next to Print Resolution and select 1016 DPI

Click on OK

Click on Print

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