OPOS Sensor Calibration

Testing the OPOS settings

The following steps show the best procedure used to test and calibrate the OPSO senor.

The first step is to load the LF700 with correctly printed media (this can be any design) and load the related cut data into WinPlot. Ensure the media is feed through the machine all the way to the rewind and over both dancing rollers as we are testing the calibration of the media through the whole machine.

To test if the OPOS is set correctly send cut data from WinPlot to the LF700 with the reg mark in the bottom right hand corner of the design selected, click the 'Send to OPOS Cutter' icon on the top menu bar.



utput Setup Details		
Material Manager Output	Selection	
	Send to cutter	Cancel

Next you will see the 'Output Setup Details' dialogue box, on the 'Selection' tab change to 'Current Selection' so that the cutter will cut out the OPOS reg mark.

Click on 'Send to Cutter' and the cut data will be sent to the LF700.

On the LF700 set the tool inline with but just in advance of the printed reg mark and press the enter button twice. The LF700 will cut just the selected data, once cut, stop the cutter and carefully remove the cut out reg mark. Remember this only 4x3mm so it is very small.

Now you will have a reference to where the cut data and the printed data are in relation to each other.

Measure the Offset.

From the cut and printed media take the offset measurement for the X axis and multiply by 80 for example, if the value is 0.125mm then 0.125x80=10 Now repeat for the X axis.

You now have both discrepancy values for the X and Y axis, to change the OPOS XY values you need to start 'Summa Cutter Control' this a utility programme that comes on the LF700 Software and Driver disk.



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Start 'Summa Cutter Control' by double clicking the programme icon while holding down the 'Shift' key, this will enable the 'System Information' menu on left hand side. See right. Clicking on this will show the setting for the cutter.

Warning do not change any of the setting as doing so

can damage your LF700.

The Image below shows the OPOS xoffset setting highlighted.





Highlight the **OPOS_xoffset**, in the top right enter the new OPOS X value and click the 'Apply' button. Follow the procedure for the **OPOS_yoffset**

Any changes made must be followed by powering the machine off until the front panel lights have gone out, wait a few seconds the power back on and run the same test to see if any further changes need to be made.

Remember that 1mm= a value of 80

