



# NAVIGATOR F/P

▶ FLEXO. PACKAGING. PROVEN.

## CALIBRATION GUIDE



XITRON, LLC  
4880 VENTURE DRIVE  
SUITE 500  
ANN ARBOR, MI 48108  
[WWW.XITRON.COM](http://WWW.XITRON.COM)

# CALIBRATION FOR FLEXOGRAPHIC PLATEMAKING IN A XITRON NAVIGATOR RIP.

1. To change the input values of the Xitron Navigator RIP's Calibration Manager there are some edits that must be made.

Below is an example of the standard input values of the Xitron Navigator RIP's Calibration Manager.

The input values are 100,95,90,85,80,70,60,50,40,30,20,15,10,8,6,4,2 and 0.

Below is an example of the EDITED input values of the Xitron Navigator RIP's Calibration Manager.

The EDITED input values are 100,95,90,85,80,70,60,50,40,30,20,15,10,8,6,2,1 and 0.

The reason for editing the input values is in Flexographic printing the minimum dot is hard to control. The min dot needs to be controlled at the 1 and 2 percent values.

2. Editing the input values of the Xitron Navigator RIP's Calibration Manager is easy to do. First locate the DeviceCMYK file that is located in the Navigator folder\SW\Config\Targets. Make a copy of this file and save it somewhere outside of the Navigator folder\SW\Config\Targets. Name the copy DeviceCMYK-FactoryDefault. Once that is done open the DeviceCMYK file that is located in the Navigator folder\SW\Config\Targets in a text editing program. The result of opening this file is many lines of Postscript code. There are areas that need to have changes made to them. These areas are:

/PatchName

/PatchColor

/TextString

Name	In Folder	Size	Type	Date Modified
DeviceCMYK	C:\Navigator 8.0r8\SW\colorspaces		File Folder	12/6/2011 10:58 AM
DeviceCMYK	C:\Navigator 8.0r8\SW\Config\Targets	15 KB	File	10/9/2008 11:14 PM
DeviceCMYK	C:\Navigator 8.0r8\SW\Config\Factory Settings\Targets	15 KB	File	10/9/2008 11:14 PM
DeviceCMYK	C:\Navigator 8.0r8\SW\Config\Devices\Dev\HCMS\None	2 KB	File	5/22/2008 1:55 PM

3.) The next page identifies these three areas and the changes are indicated in Orange. Make these changes and only these changes. Save the file, close the file, relaunch the Xitron Navigator RIP and open the Calibration Manager - the input values should now have a 1 and 2 percent entry.



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/PatchName [

(C100) (C95) (C90) (C85) (C80) (C70) (C60) (C50) (C40) (C30) (C20) (C15) (C10) (C8) (C6) (C2) (C1) (C0)  
(M100) (M95) (M90) (M85) (M80) (M70) (M60) (M50) (M40) (M30) (M20) (M15) (M10) (M8) (M6) (M2) (M1) (M0)  
(Y100) (Y95) (Y90) (Y85) (Y80) (Y70) (Y60) (Y50) (Y40) (Y30) (Y20) (Y15) (Y10) (Y8) (Y6) (Y2) (Y1) (Y0)  
(K100) (K95) (K90) (K85) (K80) (K70) (K60) (K50) (K40) (K30) (K20) (K15) (K10) (K8) (K6) (K2) (K1) (K0)  
(100) (95) (90) (85) (80) (70) (60) (50) (40) (30) (20) (15) (10) (8) (6) (2) (1) (0)  
(100) (95) (90) (85) (80) (70) (60) (50) (40) (30) (20) (15) (10) (8) (6) (2) (1) (0)  
(100) (95) (90) (85) (80) (70) (60) (50) (40) (30) (20) (15) (10) (8) (6) (2) (1) (0)

/PatchColor [

% Cyan

1.00 0.95 0.90 0.85 0.80 0.70 0.60 0.50 0.40 0.30  
0.20 0.15 0.10 0.08 0.06 0.02 0.01 0.00

% Magenta

1.00 0.95 0.90 0.85 0.80 0.70 0.60 0.50 0.40 0.30  
0.20 0.15 0.10 0.08 0.06 0.02 0.01 0.00

% Yellow

1.00 0.95 0.90 0.85 0.80 0.70 0.60 0.50 0.40 0.30  
0.20 0.15 0.10 0.08 0.06 0.02 0.01 0.00

% Black

1.00 0.95 0.90 0.85 0.80 0.70 0.60 0.50 0.40 0.30  
0.20 0.15 0.10 0.08 0.06 0.02 0.01 0.00

% Spot1

1.00 0.95 0.90 0.85 0.80 0.70 0.60 0.50 0.40 0.30  
0.20 0.15 0.10 0.08 0.06 0.02 0.01 0.00

% Spot2

1.00 0.95 0.90 0.85 0.80 0.70 0.60 0.50 0.40 0.30  
0.20 0.15 0.10 0.08 0.06 0.02 0.01 0.00

% Spot3

1.00 0.95 0.90 0.85 0.80 0.70 0.60 0.50 0.40 0.30  
0.20 0.15 0.10 0.08 0.06 0.02 0.01 0.00

]

/TextString [

(0) (1) (2) (6) (8) (10) (15) (20) (30) (40)  
(50) (60) (70) (80) (85) (90) (95) (100)

(Reference Number: \$TARGETID\$)

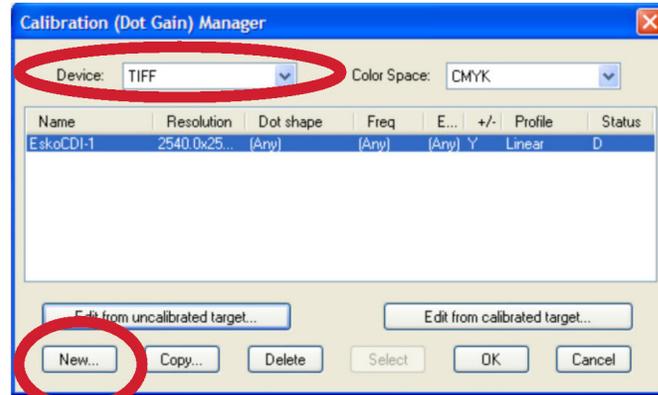
(0) (1) (2) (6) (8) (10) (15) (20) (30) (40)  
(50) (60) (70) (80) (85) (90) (95) (100)



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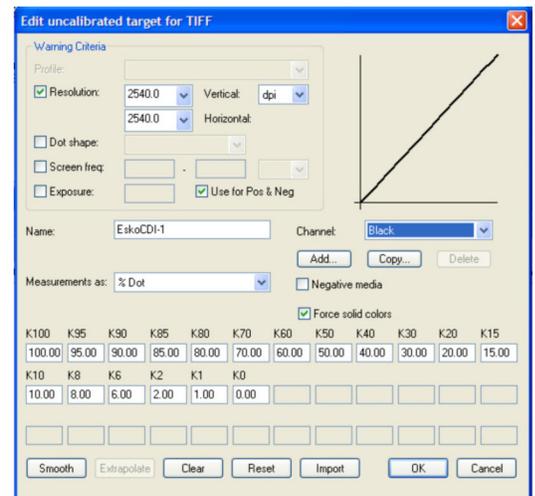
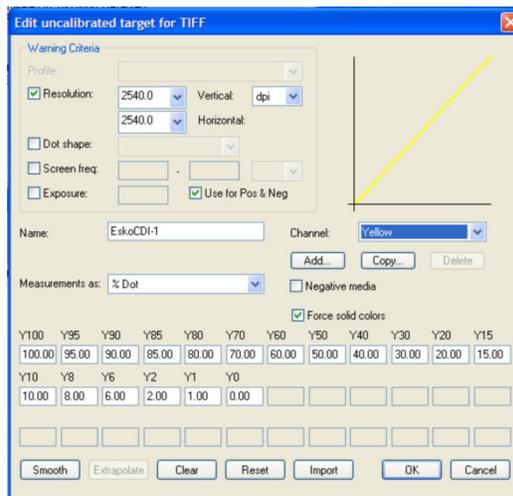
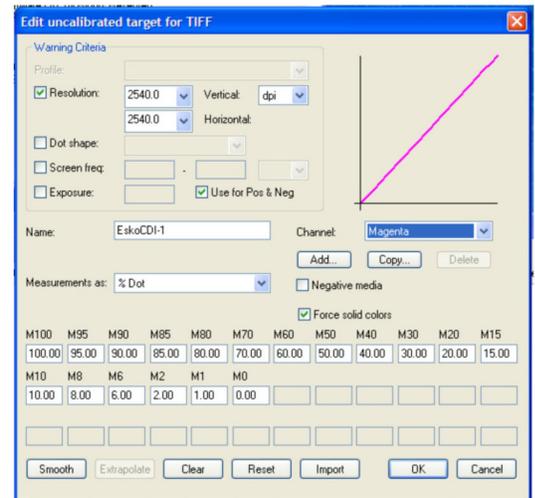
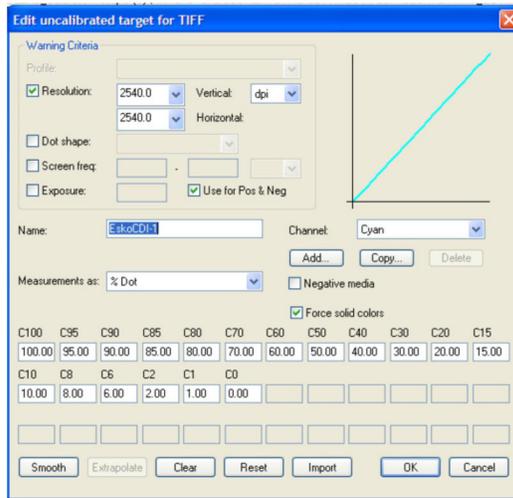
# CALIBRATION FOR FLEXOGRAPHIC PLATEMAKING IN A XITRON NAVIGATOR RIP.

4.) Proceed to enter the values for a Linear plate calibration. This MUST be for a TIFF device!!!!



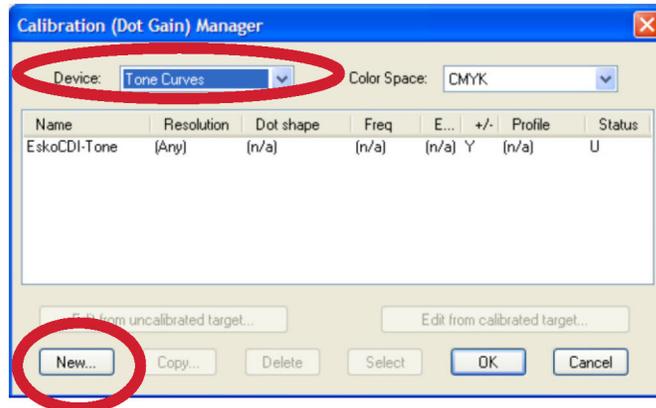
5.) Click the New button.

6.) Select the Resolution, name the curve and make each separation LINEAR. See Example below: Save the file. This will be the Calibration in the Page Setup.



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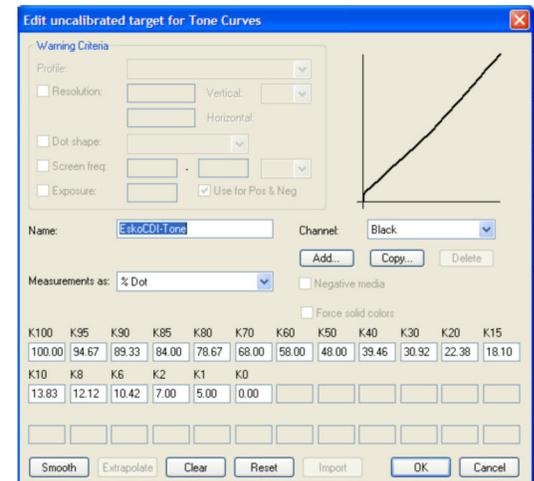
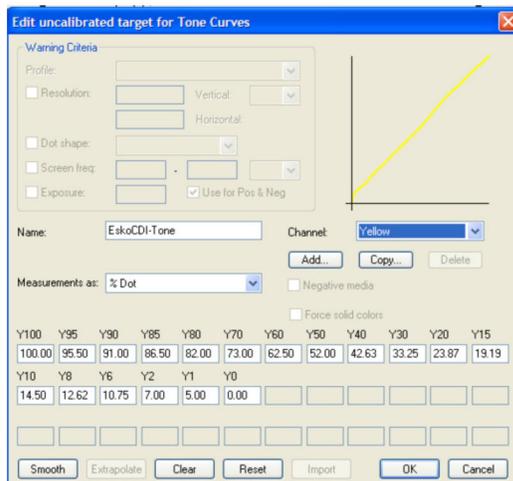
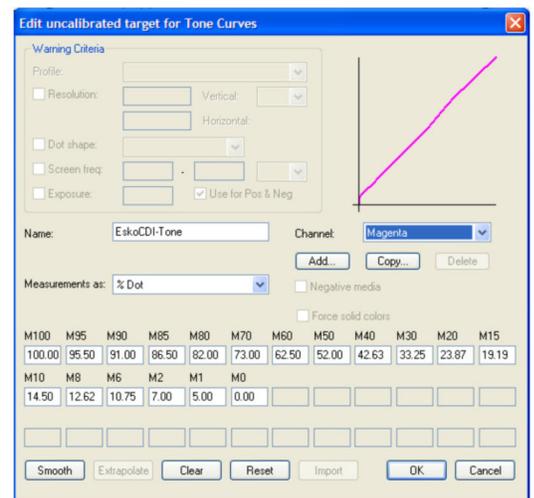
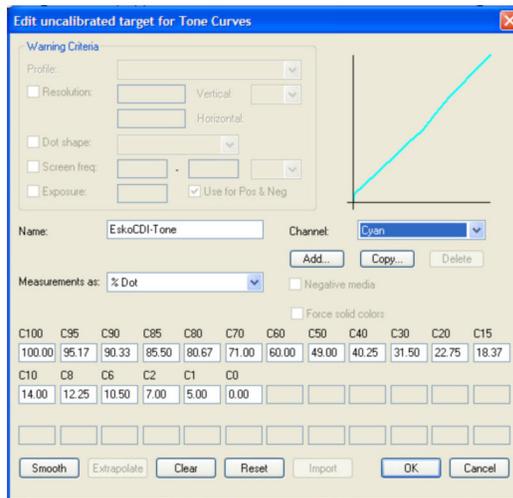
7.) Open the Calibration Manager in the Xitron Navigator, proceed to enter the values for a Tone Curve plate calibration. The Device MUST be Tone Curves!!!!



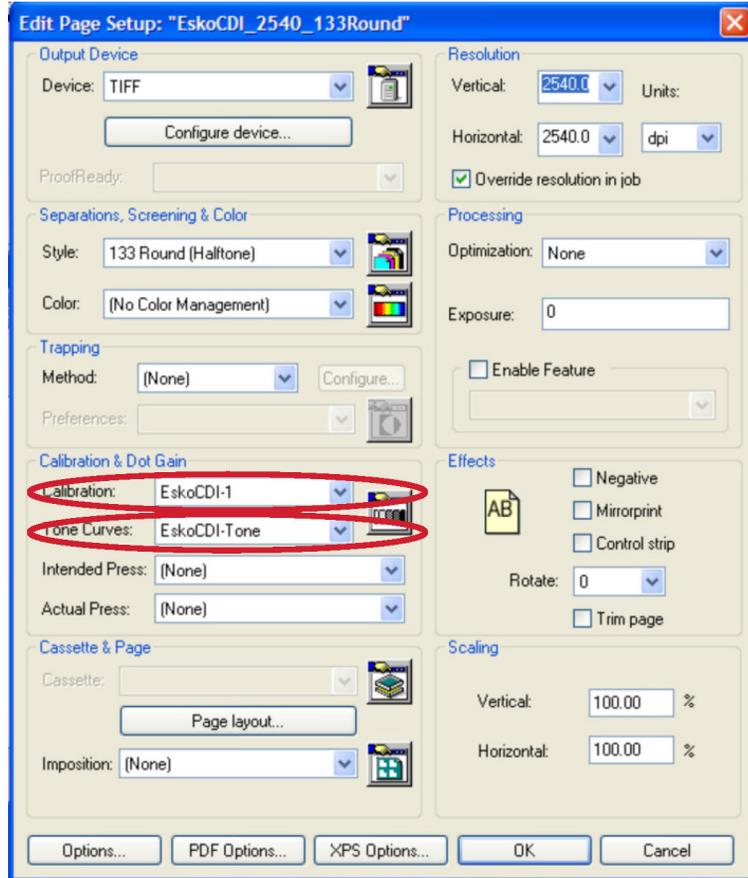
8.) Click the New button.

9.) Select the Resolution, name the curve and enter the Tone Curve values for each separation. See Example below:

Save the file. This will be the Tone Curves in the Page Setup.



10.) Make certain in Page Setup that BOTH the Linear Curve and the Tone Curves are selected.



11.) This is an example of a Calibrated Bitmap in Esko Bitmap Viewer.

