

Perform Advanced Calibration with Full Width Array

GX Print Server for Iridesse Production Press

Version 1.0

FUJIFILM Business Innovation Corp.

Overview

This exercise will demonstrate the process of calibrating the colour data between the GX Print Server and the print engine, using the Print Engine's Full Width Array (FWA).

The purpose of calibration is to monitor the variation of colour reproduced by the print engine. The process allows the GX Print Server to compensate for variables such as changes in the installation environment, printer components, printing substrates and other factors.

The "Advanced calibration" process using the Full Width Array feature allows users to perform a calibration without manually measuring colour charts by hand. It takes advantage of an inline scanner within the print engine to measure the charts and communicate this information to the GX Print Server. The benefit to the operator is a reduction in time and an optimized process in which to maintain consistent colour quality.

Objective

- Navigate to the location of the setting on the GX Print Server
- Create a Calibration file without manually measuring the colour patches
- Assign the Calibration to the Stock
- Update the Calibration

BEFORE



consistency issues

AFTER



After calibration: Colour is uniform from page to page

Create a Calibration File

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For information about creating a stock in the stock library using the "Stock Library Manager" application, go to the Help menu of Stock Library Manager application.

- 1. Create a stock in the stock library and assign it to the tray.
- 2. In the shortcut area, select [Calibration].



3. In the top left corner of the calibration management window click the (Create New) button.

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Calibration	Target Scan A	djustment					
Calibration: 1 I	em(s)						
ت 🗈 🕷	Jpdate 📕 Verify	Revert				Search	۹
Name		Paper Type	Halftone	Execution Date/Tim	Modified Date/Time	Comments	
Training Calibra	ion 20102017	Plain(Uncoated)	200 dot	11/22/2017 3:30:55 P	M 11/24/2017 1:57:56 PM		

4. Select Full Width Array to perform the calibration.



Please note in the following step 200 dots per inch is the default halftone screen ruling. If another halftone is used to print the job, please select the halftone to be used in [Halftone].

5. Set up Calibration Mode

Select [200 dots] in [Halftone], **[Advanced]** in [Calibration Method], [Silk Coated 140(M2)] in [Calibration Target], select the tray in **[Paper Tray]** and then click **[Next]**.

Create Calibration	
Step 1 🌩	
Specify Calibration Conditions	
Specify the calibration conditions, then proceed to Step 2.	
Talitone	
Calibration Method	
Advanced V	
Calibration Target	
SilkCoated 140(M2)	Select
Tray	
Tray 1: A3 120 Uncoated, A3 (297 x 420 mm) SEF, Plain, White, 120 gsm	v
A Draviava	Novt
Previous Step 1 P Step 2	INEXI 🕨
	Cancel

6. Select [Output Quantity (Sheets)] and choose the number of sheets to be output (Please note the default is 7 which is the recommended minimum) and then click [Print].

Create Calibration
Step 2 🌩
Auto Scan Calibration Chart
Click Print to simultaneously output and scan the chart.
Scan Adjustment File
Not Specified v Select
File Name
Output Quantity (sheets)
7 - + (3-22, Default: 7)
Previous Step 1 Step 2 Print
Cancel

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During the printing process color charts are printed and scanned and the data is sent back from the engine to the GX Print Server for processing.

Processing
Processing Print Cancel

7. After printing the calibration charts, the result dialog window is displayed automatically. Click [Save].

Descript	ion			
Red: Ta Blue: C Green:	arget urrent state Adjusted state			
Density	Cyan	Magenta	Yellow	Black
2.0				
	The calib To save v Save. To verify	ration file for achieving the vithout verifying the results the results, click Verify.	target from the current s of the calibration file to b	tate will be created. i e created, click

8. Enter [Calibration File Name] and [Comments] as necessary and click [Save].

Eg) **Calibration File Name:** Coated Paper, **Comments:** Calibrated on Colotech Silk Coated 140gsm stock

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Please note: When [Assign to the Selected Paper Tray/Stock] is checked in the window below, the file is both saved and assigned to Stock. The assignment of the calibration file can be changed in [Stock Library].

Save Calibration		×						
Calibration Conditions								
Connected Printer: Iridesse(TM) Production Press Scanner: Full Width Array Haltone: 200 dot Calibration Method: Advanced Tray/Stock: Tray 1/A3 120 Uncoated Calibration Target: SilkCoated 140(M2)								
Enter a file name and a co	mment, and click Save.		_					
Calibration File Name	Coarted Paper							
Comments	Comments Calibrated Coated 140 gsm							
Assign to the selected Tray/Stock.								
Back	Cancel	Save	•					

Congratulations you have now completed a Calibration of the GX Print Server.

If you want to use the above method to assign the calibration to a tray for a once off job you have now completed this exercise.

However if you want to learn another method of how to assign a calibration to a stock please continue to the next exercise.

Assign the Calibration to the Stock.

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Please note: It is possible to only assign the calibration to a tray or a job for a one time use. However if the calibration is to be used every time a particular stock is used and saved against that stock, please continue with this exercise.

1. In the shortcut area, select [Stock Library].



2. Double click the stock that the calibration file is going to be assigned to.



3. Select the calibration file (i.e Coated Paper) in [Calibration] and then click [OK].

Edit Stock Library	🗂 🗙
Stock Name Colotech+ Gloss Coated SRA3	
SPA2 (220 x 450 mm) SEE	Hole Punched
3003 (320 X 430 mm) 3EF	Paper Grain
320.0 (98.0.330.2)	Short Edge
Length (mm)	Calibration
450.0 (146.0-488.0)	Coarted Paper V
Paper Type	
Plain	
Paper Color	
White	
Paper Weight (g/n๋) 120 (52 - 400)	
× /	
	Cancel

4. The calibration file is assigned to the stock.

-	Ð	H F		R	•				
Stock Library Paper S	izes								
Stock Library : 12 Item/s	•								
	, ,							Search	٩
Stock Name		Paper Size	Paper Color	Paper Type	Sequence	Calibration	Hole Punched	Paper Weight	Coating Type
125gsm-SRA3) Office Envir	onment	SRA3 (320 x 450 mm) SEF	White	Custom	-	*Default	None	125	Uncoated
200gsm-SRA3) Office Envir	onment	SRA3 (320 x 450 mm) SEF	White	Custom	-	*Default	None	200	Uncoated
A3 120 Uncoated		A3 (297 x 420 mm) SEF	White	Plain	-	Coarted Paper	None	120	Uncoated
A4 125gsm Black		A4 (210 x 297 mm) SEF	Black	Plain	-	*Default	None	125	Uncoated
A4 90gsm		A4 (210 x 297 mm) SEF	White	Plain	-	"Default	None	90	Uncoated
A4 Black 80gsm		A4 (210 x 297 mm) SEF	Black	Plain		*Default	None	80	Uncoated
cOLOTECH 220		SRA3 (320 x 450 mm) SEF	White	Plain	-	*Default	None	220	Coated
Colotech+ 160gsm A4		A4 (210 x 297 mm) SEF	White	Plain	-	*Default	None	160	Coated
Colotech+ Gloss Coated SF	RA3	SRA3 (320 x 450 mm) SEF	White	Plain		Coarted Paper	None	120	Coated
Custom Stock 1		A3 (297 x 420 mm) SEF	White	Plain	-	*Detault	None	90	Uncoated
HW A4		A4 (210 x 297 mm) SEF	White	Plain	-	Training Calibration 20102017	None	120	Uncoated
CD40 200 CC14 CLOCC		SRA3 (320 x 450 mm) SEE	White	Plain	-	Training Calibration 20102017	None	300	Coated

You have now assigned the calibration data to a stock in the stock library, and now any job that is sent using that paper type will use this calibration data. You have completed this exercise.

Now that you have saved a calibration you may need to schedule a regular time to update this color data around the constantly changing printing environment. A good suggestion is to do this daily. The following process will demonstrate how to update the calibration files that we have made in the previous pages.

Update the calibration

1. In the shortcut area, select [Calibration].



2. Select the calibration file to be updated.

E 🕨 🖸	8					
Calibration Target Scan Ad	justment					
Calibration: 1 Item(s) Calibration: 1 Item(s) Calib	BRevert E			Search	۹	
Name	Paper Type Halftone	Execution Date/Time	Modified Date/Time	Comments		
Training Calibration 20102017	Plain(Uncoated) 200 dot	11/22/2017 3:30:55 PM	11/24/2017 1:57:56 PM			
Training Calibration 20102017	Plain(Uncoaled) 200 dol	11/22/2017 3.30.55 PM	11/24/2017 1.57.56 PW			

- 3. Click the Oupdate (Update) button located near the top left of the calibration window.
- 4. Select the output tray in [Paper Tray] and then click [Next].

Please note: The items that are greyed out, except [Paper Tray] are already predefined by the original conditions that were set when the calibration was created.

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Calibration Conditions	
the calibration conditions, then proceed to Step 2.	
9	
ion Method	
ion Target	
1: A3 120 Uncoated, A3 (297 x 420 mm) SEF, Plain, White, 120 gsm	v
evious Step 1 🕨 Step 2	Next 🕨
1	

5. Select [Output Quantity (Sheets)], and then click [Print].

Calibration - Update	
Step 2 🔿	
Auto Scan Calibration Chart	
Click Print to simultaneously output and scan the chart.	
Scan Adjustment File	
File Name	
Output Quantity (sheets)	
7 (3-22, Default: 7)	
Previous Step 1 Step 2 Print	
Cance	

6. After printing the calibration charts, the result dialog is displayed automatically. Click [Save].

View I	Result - Curr	ent Status		
Descrip	ption			
Red: Blue: Green	Target Current state n: Adjusted state			
Density	y Cyan	Magenta	Yellow	Black
2.0		4		k
1.0				
0.0	The of To sa Save To ve	alibration file for achieving the ve without verifying the results rify the results, click Verify.	e target from the current st s of the calibration file to be	ate will be created. e created, click
			Cancel	Verify Save

7. Click [Save] to apply the calibration file.

Save Calibration			Х
Calibration Conditions			
Connected Printer, Indesse(TM) Production Press Scanner: Full Width Array Halitone: 200 dot Calibration Method: Advanced Tray/Stock: Tray 11/A3 120 Uncoated Calibration Target: SilkCoated 140(M2)			
Enter a file name and a comment, and click Save.			
Calibration File Name	Coarted Paper		
Comments	Calibrated Coated 140 gsm		
Assign to the selected Tray/Stock.			
Back	Cancel	Save	è.

Congratulations you have now completed this exercise.