

# How to calibrate with the i1Pro2

# 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. The purpose of this 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 value of this activity is to achieve consistent colour reproduction between the GX Print Server and the print engine.

#### Objective

By the end of this exercise users will be able to:

- Navigate to the location of the setting on the GX Print Server
- Create a Calibration file
- Assign the Calibration to the Stock
- Update the Calibration



Before calibration: Printed colour consistency issues AFTER



After calibration: Colour is uniform from page to page

#### **Create Calibration File**

For information about creating a stock in the stock library go to the Help of Stock Library Manager (Iridesse)

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

<b></b>	•	<b></b>	Ð		=					
Job Manager Import Jobs	Job History	Imposition Template	CMS	•	Calibration	Stock Library	Job Templates		Widgets	•
Calibration Target Scan Adjustme	nt									
Calibration: 0 Item(s)										
💌 📋 💭 Update 🛛 🐺 Verify 🕑	Revert 🗉 🖸		Search	۹		C Restore D				
Name Paper Type Halftone I	Execution Date/Time	Modified Date/Time	Comments			Tray	Paper	Stock	Calibration	<b></b>
						Bypass Tray	A4(210x297mm) SEF Plain White 90 gsm		*Default	
						A2-1	A4(210x297mm) LEF Plain White 90 gsm	sample2	*Default	
					🖉 Assign	A2-2	A4(210x297mm) LEF Plain White 90 gsm	sample2	*Default	
						A1-1	A3(297x420mm) SEF Plain White 90 gsm		*Default	
					P Assign to A	All A1-2	8.5x11"(fŒf^[) SEF Plain White 90 gsm	sample1	*Default	
						Tray 1	A4(210x297mm) SEF Plain White 90.csm		*Default	

- 3. Click 💌 (Create New) in the Calibration management window
- 4. Select Spectrophotometer to perform the calibration.





Ensure that the i1Pro 2 Spectrophotometer is connected via USB to the GX Print Server.



Print Server



5. Set up Calibration Mode

Select [i1Pro2(M2 Colorimetry)] in [Scanner], [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].

If another halftone is used to print the job, please select the halftone to be used in [Halftone].

Create Calibration	
Step 1 🔿	
Specify Calibration Conditions	
Specify the calibration conditions, then proceed to Step 2.	
Scanner	
i1Pro 2 (M2 Colorimetry)	
Halftone	
200 dot v	
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
Previous         Step 1         Step 2         Step 3	Next
	Cancel

 Select [Copies] and choose the number of sheets to be output (Please note the default is 5 which is the recommended minimum). Select [Output Destination], and then click [Print]. After printing the calibration charts, click [Next].

Create Calibration
Step 2  Print Calibration Chart Set the number of copies, then click Print.
Copies
5 — + (1-99, Default: 5)
Output Destination
Finisher Tray     V
Print
Cancel



Please check the quality of the output color charts to ensure that no print engine image quality artifacts are on the printed output. This is to ensure that the best colorimetric data can be captured during the next step.



7. Click [Use Colorimetry Application] to select a Colorimetric Method for Calibration, then Click [Start].

Create Calibrati	on				
Step 3  Import Colorimetric E Select a Colorimetric Use Colorimet Use Colorimet	ata Method for Calibrati ry Application ric Data	ion, then clic	k Start.	wse)	
Previous	Step 1 🕨 S	Step 2 🕨	Step 3		Start

8. Place the printed output into the i1Pro 2 calibration backup board with the arrow pointer to the top right of the carrier. Put five or more blank sheets of the same paper under the Calibration Chart.







9. The Color Measurement Utility will be launched automatically, then click [Start]

Color Measurement Utility	×
Color Measurement Screen : Handheld Reader (i1Pro 2)	년회 Exit
Select (Start).	
Calibration	🔄 Undo 🔢 Cancel 🕨 Start



If i1Pro 2 is not connected, please connect i1Pro2 and click Rescan. (See Figure 2 & 3 of this procedure for pictures).

10. Follow the onscreen instructions, and place the i1Pro 2 into the "white reference plate" and press the buttons on the side of the unit to calibrate the i1Pro 2 Spectrophotometer.

Color Measurement Utility			×
Color Measurement Screen : Handheld Reader (i1	Pro 2)		년] Exit
Calibration will be performed. Place the Handheld Reader on the white refer	rence plate and press th	e button on the reader.	
Calibration	J	් Undo 🔢	Cancel Start





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Please note that in the following step, if 5 minutes have passed after i1Pro 2 calibration, the i1Pro 2 will need to be placed on the "white reference plate" and will start another calibration measurement. 11. After the i1Pro 2 has been successfully calibrated, start measuring by pressing the buttons on the i1Pro 2 and slide the Spectrophotometer across the printed page as shown.







12. After measuring all the strips, the message "Color measurement has completed" will be displayed, and then click [Complete].

Color Measurement Utility	×
Color Measurement Screen : Handheld Reader (i1Pro 2)	E Exit
O Color measurement has completed.	
20400455	
En Calibration	slete Start

13. Check the result and click [Save].



Please note that in the following step, a standard naming convention should be adopted so that the calibration can be easily identified.

14. Enter [Calibration File Name] and [Comments] as necessary and click [Save].
 Example = Calibration File Name : Coated Paper
 Comments: Calibrated by Colotech SilkCoated 140gsm

	Save Calibration		Ē	X C	
	Calibration Conditions				
	Connected Printer: Irides Scanner: i1Pro 2 (M2 Col Halftone: 200 dot Calibration Method: Adva Tray/Stock: Tray 1/A4 90 Calibration Target: SilkCo				
	Enter a file name and a co	mment, and click Save.			
	Calibration File Name	Coated Paper			
	Comments	Calibrated by Colotech Silkcoat 140	)gsm		
	Assign to the sele	cted Tray/Stock.			
	Back	Cance	el Sa	ave	
<b>j</b> )	When [Assign to the both saved and ass file can be changed	e Selected Paper Tray/Sto igned to Stock. The assig in [Calibration] or [Stock	ock] is c inment Library	checke of the /].	ed, the file is calibration

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

Please continue to the next exercise of assigning the calibration data to a stock.

## Assign the Calibration to the Stock.



It is possible to assign the calibration to Tray. In that case, this exercise can be skipped.

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

😑 FUJI XeroX 🕥	GX Print Server for the Iridesse(TM) Production Press								
✓ Print Server	: Maintenance				GX Print (TM) Pro	Server for the Iridess duction Press	e		
Iridesse(TM) Production Press									
Printer Ready Printer Ready Image: Im	Job 🙆 Job	History	1 2	mplate	CMS	Calibration	SI	KLEnzy	GLD Job Templ
Stock Library : 14 Item(s)									q
Stock Name	Paper Size	Paper Color	Paper Type	Sequence	Hole Punched	Paper Weight	Coating Type	Pre-printed Paper	Pa
125gsm-SRA3) Office Environment	SRA3 (320 x 450 mm) SEF	White	Custom	-	None	125	Uncoated	-	Sh
200gsm-SRA3) Office Environment	SRA3 (320 x 450 mm) SEF	White	Custom	-	None	200	Uncoated		Sh
220gsm White A4	A4 (210 x 297 mm) SEF	White	Plain	-	None	220	Uncoated	Off	Lor
A3 120 Uncoated	A3 (297 x 420 mm) SEF	White	Plain	-	None	120	Uncoated	Off	Lor
A3 120nsmk	43 (297 x 420 mm) SEE	White	Plain		None	120	Uncoated	Off	Lor

2. Select the stock which the calibration file is going to be assigned to.

Stock Library Paper Sizes							
Stock Library : 14 Item(s)							
Stock Name	Paper Size	Paper Color	Paper Type	Sequence	Hole Punched	Paper Weight	Coating Typ
125gsm-SRA3) Office Environment	SRA3 (320 x 450 mm) SEF	White	Custom	-	None	125	Uncoated
200gsm-SRA3) Office Environment	SRA3 (320 x 450 mm) SEF	White	Custom	-	None	200	Uncoated
220gsm White A4	A4 (210 x 297 mm) SEF	White	Plain	-	None	220	Uncoated
A3 120 Uncoated	A3 (297 x 420 mm) SEF	White	Plain	-	None	120	Uncoated
A3 120gsmk	A3 (297 x 420 mm) SEF	White	Plain	-	None	120	Uncoated
A4 125gsm Black	A4 (210 x 297 mm) SEF	Black	Plain	-	None	125	Uncoated
A4 90gsm	A4 (210 x 297 mm) SEF	White	Plain	-	None	90	Uncoated
A4 Black 80gsm	A4 (210 x 297 mm) SEF	Black	Plain	-	None	80	Uncoated
cOLOTECH 220	SRA3 (320 x 450 mm) SEF	White	Plain	-	None	220	Coated
Colotech+ 160gsm A4	A4 (210 x 297 mm) SEF	White	Plain	-	None	160	Coated
Colotech+ Gloss Coated SRA3	SRA3 (320 x 450 mm) SEF	White	Plain	-	None	120	Coated
Custom Stock 1	A3 (297 x 420 mm) SEF	White	Plain	-	None	90	Uncoated
HW A4	A4 (210 x 297 mm) SEF	White	Plain	-	None	120	Uncoated
SRA3 300 GSM GLOSS	SRA3 (320 x 450 mm) SEF	White	Plain	-	None	300	Coated

3. Double-click the selected item and select the calibration file name in [Calibration] and then click [OK].

Edit Stock Library		🗂 ×
Stock Name Colotech+ Gloss Coated SRA3		
Paper Size SRA3 (320 x 450 mm) SEF Width (mm)	Hole Punched None Paper Grain	
320.0 (98.0-330.2) Length (mm) 450.0 (146.0-488.0)	Short Edge Calibration Coarted Paper	v
Paper Type Plain		
Paper Color White Paper Weight (g/m <sup>1</sup> )		
120 (52 - 400)		
	(	Cancel

4. The calibration file is assigned to the stock.

Job Manager	⇒ In	nport Jobs	Job Histor	ry 🖽 I	mposition Template	📴 смs	E Calibration	<b>S</b>	Stock Library	Job Temp
Stock Library F	Paper Sizes									
Stock Library : 14	l Item(s)									
									Search	۹
Size	Paper Color	Paper Type	Sequence	Hole Punched	Paper Weight	Coating Type	Pre-printed Paper	Paper Grain	Calibration	
320 x 450 mm) SEF	White	Custom	-	None	125	Uncoated	-	Short Edge	*Default	
320 x 450 mm) SEF	White	Custom	-	None	200	Uncoated	-	Short Edge	*Default	
x 297 mm) SEF	White	Plain	-	None	220	Uncoated	Off	Long Edge	*Default	
x 420 mm) SEF	White	Plain	-	None	120	Uncoated	Off	Long Edge	Coarted Paper	
x 420 mm) SEF	White	Plain	-	None	120	Uncoated	Off	Long Edge	*Default	
x 297 mm) SEF	Black	Plain	-	None	125	Uncoated	Off	Long Edge	*Default	
x 297 mm) SEF	White	Plain	-	None	90	Uncoated	Off	Long Edge	*Default	
x 297 mm) SEF	Black	Plain	-	None	80	Uncoated	Off	Long Edge	*Default	
320 x 450 mm) SEE	White	Plain		None	220	Coated	Off	Long Edge	*Default	

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.

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It is recommended that calibration be performed on regular basis. (i.e. Daily or weekly)

To learn how to update the calibration on a regular basis, please continue to the next exercise of updating the calibration.

## Update the calibration

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

	E	Þ	9	⊞	<b></b>		=		Ð			0 =
Job	Manager	Import Jobs	Job History	Imposition Template	CMS		Calibration	Stock Library	Job Templates		Widgets	
Calibrat	on Target	Scan Adjustment										
Calibratio	on: 0 Item(s)											
۱	💭 Update	🗄 Verify 🛛 🔥 Revert			Search	۹		C Restore D				
Name	Paper Type	Halftone Execut	ion Date/Time	Modified Date/Time	Comments			Tray	Paper	Stock	Calibration	<b>_</b>
								Bypass Tray	A4(210x297mm) SEF Plain White 90 gsm		*Default	
								A2-1	A4(210x297mm) LEF Plain White 90 gsm	sample2	*Default	
							🖉 Assign	A2-2	A4(210x297mm) LEF Plain White 90 gsm	sample2	*Default	
								A1-1	A3(297x420mm) SEF Plain White 90 gsm		"Default	
							P Assign to A	A1-2	8.5x11"(f0Ef^[) SEF Plain White 90 gsm	sample1	*Default	
								Tray 1	A4(210x297mm) SEF Plain White 90.csm		*Default	

2. Select the calibration file to be updated.

🧧 Job Manager 💽	Import Jobs	Jot	History	🗄 Ir	mposition Template	CMS
Calibration Target Scan Adjustment						
Calibration: 2 Item(s)						
🗰 🛅 💭 Update 👪	/erify bRever	t 🗉 🕽			Search	۹
Name	Paper Type	Halftone	Execution Date/1	Time	Modified Date/Time	Comment
Coarted Paper	Plain(Uncoated)	200 dot	11/28/2017 5:34:2	2 PM	11/28/2017 5:36:03 PN	Calibrated
Training Calibration 20102017	Plain(Uncoated)	200 dot	11/22/2017 3:30:5	i5 PM	11/24/2017 1:57:56 PN	

- 3. Click <sup>Dupdate</sup> (Update).
- 4. Select the tray in [Paper Tray] and then click [Next].

Calibration - Update	
Step 1 🛋	
Specify Calibration Conditions	
Specify the collibration conditions then preceded to Stop 2	
Specify the calibration conditions, then proceed to Step 2.	
Halftone	
200 dot v	
Calibration Method	
Calibration Target	
	Select
Tray	
Tray 2: Xerox Colotech+ Silk 170gsm SRA3, SRA3 (320 x 450 mm) SEF, Plain, W	hite, 170 gsr
✓ Previous Step 1 ► Step 2 ► Step 3	Next 🕨
	Cancel

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The items except [Paper Tray] are already set by the conditions that the calibration is created.

5. Select [Copies] and chose the number of sheets to be output 5 is the recommended minimum. and then click [Print]. After printing the calibration charts, click [Next].

Calibration - Update	
Step 2 🔿	
Print Calibration Chart	
Set the number of copies, then click Print.	
Copies	
5 (1-99, Default: 5)	
Output Destination	
Finisher Tray V	
Print	
Previous Step 1      Step 2      Step 3      Next	
Cancel	

6. Click [Use Colorimetry Application] to select a Colorimetric Method for Calibration, then Click [Start].

Calibration - New	
Step 3 🏟	
Import Colorimetric Data	
Select a Colorimetric Method for Calibration, then Click Start. O Use Colorimetry Application	
Use Colorimetric Data	Browse
Previous     Step 1      Step 2      Step 3	Start
	Cancel

7. Place the printed output into the i1 calibration backup board with the arrow pointer to the top right of the carrier. Put five or more blank sheets of the same paper under the Calibration Chart.

8. The Color Measurement Utility will be launched automatically, then click [Start].



9. Follow the onscreen instructions, and place the i1Pro 2 into the "white reference plate" and press the buttons on the side of the unit to calibrate the i1Pro 2 Spectrophotometer.

Color Measurement Utility	×
Color Measurement Screen : Handheld Reader (i1Pro 2)	윤태 Exit
Calibration will be performed. Place the Handheld Reader on the white reference plate and press the button on the reader.	<b>X</b>
Calibration Calibration S Undo	Cancel Start

10. After the i1Pro 2 has been successfully calibrated, start measuring by pressing the buttons on the i1Pro 2 and slide the Spectrophotometer across the printed page as shown.

🔲 Color Mea	Color Measurement Utility ×					
Color Me	asurement Screen : Han	dheld Reader (i1Pro 2)		Exit		
0	Contraction of the second relation of the second scan. (Scan can be performed from either right of the second scan (thrs.)     Perform color measurement on Line 1 (Line 1 of Page 1).     Place multi-and the start, and Handheld Reader at the end of the ruler.     Press the Handheld Reader button until the screen shows a check mark, slide it to the other end, and     then release the button.					
E. c	Calibration	ncel Calibration	-3 Undo	II Cancel Start		

11. After measuring all the strips, the message "Color measurement has completed" will be displayed, and then click [Complete].

Color Measurement Utility	×
Color Measurement Screen : Handheld Reader (i1Pro 2)	뒚 Exit
O Color measurement has completed.	
A DECEMBER OF A	
ALC: NOT A SAME	
€ calibration II cancel calibration 🕁 Undo II com	olete Start

12. Check the result and click [Save].

View	View Result - Current Status						
Desc	Description						
Red Blue Gre	Red. Target Blue: Current state Green. Adjusted state						
Dens	sity	Cyan	Magenta	Yellow	Black		
2.0			ļ,				
0.0							
		The calib To save Save. To verify	ration file for achieving the without verifying the results the results, click Verify.	target from the current st of the calibration file to b	ate will be created. <b>1</b> e created, click		
				Cancel	Verify Save		

13. Modify [Comments] as necessary and click [Save].
 Example = Calibration File Name : Coated Paper
 Comments: Calibrated by Colotech SilkCoated 140gsm

Save Calibration			×			
Calibration Conditions						
Connected Printer: Iridesse(TM) Production Press Scanner: i1Pro 2 (M2 Colorimetry) Halftone: 200 dot Calibration Method: Advanced Tray/Stock: Tray 11A4 90gsm Calibration Tarreet: SilkCoated 140(M2)						
Enter a file name and a co	mment, and click Save.					
Calibration File Name	Coated Paper					
Comments	Calibrated by Colotech Silkcoat 140gsm					
Assign to the selected Tray/Stock.						
Back	Cancel	Sav	e			

Congratulations, you have now completed this exersicse.