



# SureColor R-Series Media Profiling: Epson Edge Print

The Epson Media profiling guide will describe how to create a CMYK media profile for the SureColor R5070/R5070L that will be used for Epson Edge print RIP software. It is critical to produce a good profile and choose the right mechanical setting to achieve the best results.

# Contents

- 1. Workflow overview
- 2. Creating new print mode in Epson Edge Print
- 3. Choosing ink density with the Ink Density Factor (IDF) tool
- 4. Creating media profile with X-Rite i1Profiler
- 5. Importing media profile to Epson Edge Print

#### **Items needed**

- PC running Windows 7 SP1 x64 or higher
- Epson Edge Print software
- X-Rite i1Profiler software
- Spectrophotometer supported by i1Profiler
- Epson IDF Chart Print Tool for SC-R5070/R5070L





### 1. Workflow overview







2. Add new print mode on Epson Edge Print.





3. Print ink density factor chart from the IDF tool to find the maximum ink density.

djust Print Mod			
Color	Other		
Density Corte	oli	All Colors	•

4. Input ink density data into Epson Edge Print.



5. Create color chart using X-Rite i1Profiler software.

6. Print color chart data with the desired IDF (CMS off).



- 7. Measure the printed chart and create the media profile.
- reg ) Sog ) Sog 1 Frais <u>Bood attage</u> Const <u>Boot Presed</u>
- 8. Import profile to created print mode.

\*Please note: Epson Edge Print will only run on a PC running Windows 7 or higher



#### **Mechanical adjustment**

Before creating a media profile, ensure all the nozzles are firing at 100%. Perform mechanical adjustments such as uni-directional and bi-directional. When given the options, it is recommended to perform manual adjustments for a more precise alignment. Mechanical adjustments can affect the quality of the print profile.







#### Create the target print mode for the SC-R5070/R5070L Series on Epson Edge Print.

- Open the Epson Edge Print software and select the printer "R5070" or "R5070L"
- Click on "Tool" > Select "Manage Print Info" > Click on "Add".



Select "Create New" and click "Proceed".





Enter a media name, choose a vendor from the drop-down menu, and click "Proceed".

Adding Print Information	on			×
Start	Enter Basic Inform	nation		
Step 1	Media Name:	Test		
Step 2				
Step 3	Vendor:	4M	 	~
Finish				
Cancel			Back	Proceed

Select a media type and click "Finish".

Adding Print Information	n		×
Start	Select Media Type		
Step 1	Adhesive Vinyl		
Step 2	Banner		
Step 3	Film Textile Paper/Other Non-woven Wallpaper		
Finish			
Cancel	[	Back	Finish



The new print mode will appear in the media list.



Click on "Edit" and then select "Add ... ".







Select a print mode you want to create the media profile for and click "Proceed".

dding Print Quality		
Start	Select Pint Mode	
Step 1	600x300dpi - 1pass	
Step 2	600x1200dpi - 4pass 600x1200dpi - 5pass 600x1200dpi - 6pass	
Step 3	1200x1200dpi - 9pass 1200x1200dpi - 14pass 1200x1200dpi - 20pass 1200x1200dpi - 20pass - BL 1200x2400dpi - 26pass - BL 1200x2400dpi - 35pass - BL	
		Adjust
Finish		
Cancel		Proceed

You can see the default media profile for this print mode, please ignore it and click "Proceed". (After we have created the new media profile, we will import it here and discard the default profile.)





Type in a name and click "Finish".

Adding Print Quality		×
Start	Set Name	
Step 1	600x300dpi - 1pass	
Step 2		
Step 3		
Finish		
Cancel	Back	inish

Select any unnecessary print quality (1200x1200dpi - 9pass), click "Delete", then select "OK".

📑 Edit Print Information	×	E Edit Print Information	×
Media Name: Test		Media Name: Test	
Vendor: 4M ×		Vendor: 4M v	
Media ID: Current Media Setting		Media ID: Current Media Setting	
Print Quality:		Print Quality:	
Name Print Mode Media Profile Add		Name Print Mode Media Profile	Add
1200x1200dpi - 9pass 1200x1200dpi - 9pass R5000 Series_Orajet 3165G-010_9.0p. 600x300dpi - 1pass 600x300dpi - 1pass R5000 Series_Orajet 3165G-010_6.5p. Delete		600x300dpi - 1pass 600x300dpi - 1pass R5000 Series_Orajet 3165G-010_6.5p.	Delete
Edit			Edit
•		۰	
Memo:		Memo:	
OK Cance	I	ОК	Cancel



Your new print mode (600x300 - 1pass) has been created.







#### Installing the SC-R5070/R5070L driver on the computer.

Usually the driver gets installed when installing the Epson Edge Print (RIP) software. If you need to download the driver please use the following steps below.

								Ig. Setup - SC-RSOUUL Series - X
			SC-S60600L Series Model Information File	EEP_SC-S60600L_v 4.0.2.zip	96 MB	20th Oct. 2021	Download	Ready to Install
EPSON		English ~	SC-S80600 Series Model Information File	EEP_SC-S80600_v4. 0.2.zip	163 MB	20th Oct. 2021	Download	Setup is now ready to begin installing SC+KS000L Series on your computer.
	Epson Edge Print		SC-S80600L Series Model Information File	EEP_SC-S80600L_v 4.0.2.zip	163 MB	20th Oct. 2021	Download	Click Install to continue with the installation.
	Download Site		SC-P10000 Series Model Information File	EEP_SC-P10000_v4. 0.2.zip	131 MB	20th Oct. 2021	Download	
	You can download the latest wersion of the Epson software RIP "Epson Edge Print" and the option file used for Epson Edge Print. See Instalation Cuide for details on how to install Epson Edge Print		SC-P20000 Series Model Information File	EEP_SC-P20000_v4. 0.2.zip	131 MB	20th Oct. 2021	Download	
	top can updet your cybor cybor cybor rint by instaining and overwinning it withink allest version or cybor cybor cybor rint. Applicable Model Number		SC-V7000 Series Model Information File	EEP_SC-V7000_v4. 0.2.zip	143 MB	20th Oct. 2021	Download	
	SC-R6000 Series / SC-F10000 Series / SC-F500 Series / SC-F6300 Series SC-F6300 Series / SC-F7200 Series / SC-F9200 Series / SC-F9300 Series SC-F9400 Series / SC-F9400H Series / SC-F7200 Series / SC-F9500 Series		SC-R5000 Series Model Information File	EEP_SC-R5000_v4. 0.2.zip	105 MB	20th Oct. 2021	Download	
	SC-880000, Series / SC-PT0000 Series / SC-920000 Series / SC-9700 Series / SC-9700 Series / SC-97000 S		SC-R5000L Series Model Information File	EEP_SC-R5000L_v4. 0.2.zip	105 MB	20th Oct. 2021	Download	
	Notes on Installation		SC-F10000H Series FpFy Model Information File	EEP_SC-F10000H F pFy_v4.1.0.zip	446 MB	20th Oct. 2021	Download	
	to see this accessing, you mean the software labor we spore says many and moder intermediations. Be sure to install the software in the following order. 1. Installing faper. Edge Print. 2. Installing faper. Edge Print.		SC-F10000H Series LcLm Model Information File	EEP_SC-F10000H Lc Lm_v4.0.2.zip	118 MB	20th Oct. 2021	Download	
			SC-T7700D Series Model Information File	EEP_SC-T7700D_v4. 1.0.zip	103 MB	20th Oct. 2021	Download	
			SC-P8500D Series Model Information File	EEP_SC-P8500D_v4. 1.0.zip	105 MB	20th Oct. 2021	Download	Install Cancel

#### 1. Go to: https://support.epson.net/eep

2. Search through the list of printer drivers. download SC-R5000 Series.

3. Install the printer driver.



4. The printer driver is installed.

You can check if the driver is installed by going to: Control Panel > Hardware and Sound > Devices and Printers



Starting the Epson IDF Chart Print Tool.

(The IDF Tool will be provided by Epson to authorized personnel)



1. Unzip the file.

2. After unziping, you will see two files. Open the folder "IDFChartPrinTool\_r50".



3.Double-click on "IDFChartPrinTool\_r50.exe"





Check "I accept terms in the License Agreement" and click on "Agree".

License Agreement	
Epson IDF Chart Print Tool	この PC に保存済み
Read the following License Agreement carefully.	
SEIKO EPSON CORPORATION SOFTWARE LICENSE AGREEMENT	^
IMPORTANT! READ THIS SOFTWARE LICENSE AGREEMENT CAREFULLY. software product, fontware, typefaces and/or data, including any accon explanatory written materials (the "Software") should only be installed of Licensee ("you") on the condition you agree with SEIKO EPSON CORPO ("EPSON") to the terms and conditions set forth in this Agreement. By it using the Software, you are representing to agree all the terms and com in this Agreement. You should read this Agreement carefully before inst the Software. If you do not agree with the terms and conditions of this are not permitted to install or use the Software.	The computer npanying or used by the RATION nstalling or Iditions set forth talling or using Agreement, you
1. License. EPSON and its suppliers grant you a personal, nonexc free, non-sublicensable limited license to install and use the Software o	lusive, royalty- n any single
accept the terms in the License Agreement	
Exit	Agree

The Epson IDF Chart Print Tool will be displayed.

pson IDF Chart Print Tool Epson IDF Chart Print Too	bl		
Operational Procedure Set the Print Parameter Setting first, then Note that the setting ranges of controls in 1.Print Parameter Setting and a part of 2.	set the Chart Parameter Setting. 1 2.Chart Parameter Setting may change depending on the setting in Chart Parameter Setting.		
1. Print Parameter Setting			
1-1. Printer Name:	EPSON SC-R5000L file	~	
1-2. Ink Config:	Color	~	
1-3. Media Type:	Vinyl	~	
1-4. Print Mode:	600x300dpi - 1 Pass		
Comment:			
2. Chart Parameter Setting			
2-1. Function Chart:	Rough Chart (Serial) Print	~	
2-2. Print Width(44 - 50(inch)):	44		
2-3. IDF Start Value(0 - 100(*) - 400(%)):	IDF Upper Limit(32 - 100(*) - 400(%)): 100		
2-4. IDF Interval(2 - 25(%)):			
2-6. IDF Value(Optimizer)(0 - 100(%)):	9		



#### Set up the print parameters (1-4):





Set up the print parameters (1-5) and click "Print".



5) The recommended optimizer value is automatically assigned in the IDF tool based on your selected media type and print mode.

Please use the provided recommended settings:

Media	Pass	Optimizer
Vinul	9Pass or less	9%
VINYI	14Pass or more	18%
Denner	9Pass or less	12%
Banner	14Pass or more	24%
C il rec	9Pass or less	6%
FIIM	14Pass or more	12%
Demor	9Pass or less	12%
Paper	14Pass or more	24%
	9Pass or less	24%
wall paper	14Pass or more	48%
<b>Fabric</b>	9Pass or less	12%
Fabric	14Pass or more	24%



Function Charts:

Chart	Use	Image
Rough Chart 25% interval is recommended.	If the maximum ink duty is unclear, use the Rough Chart IDF value.	R(M+Y), G(C+Y), B(C+M) theoretical increase per patch
<b>Detail Chart</b> 2% interval is recommended.	If maximum ink duty is clear, use the Detail Chart value.	CMYK/RGB/Composite black theoretical increase per patch
<b>Text/Line Mixed Chart</b> 2% interval is recommended.	For text/line mixed prints, use the Text/Line Mixed Chart value.	



Visually inspect the printed samples. Find the maximum ink duty by looking for the highest ink limit that will pass the test below. Inspect the CMYK, RGB, and composite inks.





#### Caution

If ink duty is optimized based on the test on the previous page, the following issues may happen depending on your media. In this case, please adjust the IDF value or mechanical parameter settings.

Issues that can happen:

- · Ink easily rubs off
- Prints do not dry
- · Unevenness occurs vertically or diagonally
- · Surface of print is wet, or marks of dried water appear on the surface

Please refer to the online manual for more details:

http://download2.ebz.epson.net/sec cp pubs/sc-r5000 series sc-r5000l series/online/en/contents/select.htm



#### Input the selected IDF value to Epson Edge Print.

Select the print mode you created, then click "Edit".



Select the target print quality you created, then click "Edit...".

📑 Edit Print Informa	tion				×
Media Name:		Test			
Vendor:		4M	~		
Media ID:		Current Media Setting	•		
Print Quality:					
Name	Print Mode	Media Profile		Add	
600x300dpi - 1pas	s 600x300dpi - 1pass	R5000 Series_Orajet 3165G-010_6.5p.	icc	Delete	
			[	Edit	]
Memo:					]



Select target print mode, then click "Adjust...".

Editing Print Quality	×
Start	Select Pint Mode
Step 1	600x300dpi - 1pass
Step 2	600x1200dpi - 5pass
Step 3	1200x1200dpi - 9pass 1200x1200dpi - 14pass 1200x1200dpi - 20pass 1200x1200dpi - 20pass - BL 1200x2400dpi - 26pass - BL 1200x2400dpi - 35pass - BL
	Adjust
Finish	
Cancel	Proceed

Input the selected IDF value to the color density.





Select the tab "Other". The value for Optimizer is automatically assigned to Epson Edge Print. Click "OK".

📑 Adjust Print Mode		×
Color Other		
Input Resolution:	300 x 300 dpi 👻	
Before-Print Margins:	0 🔷 mm (0.000 in)	
Drying Time:	0 🗢 sec	
Optimizer:	9	
	ОК	Cancel



The IDF has been updated.







- Start the i1Profiler software
- Click on the menu "Printer"
- Select "CMYK Printer"
- Click on "Profiling"





- · Select "ECI 2002 CMYK random.pxf".
- Click "Next".





- Select your spectrophotometer model.
- · Choose the appropriate profile chart size for your spectrophotometer.
- Click on "Save as...".





- 1) Type in a file name and save the profile chart as tiff file. Two tiff files will be created, depending on the chart size.
- 2) Click on "Save".
- 3) Click on "Next".







- Click on "Add" and add the profile chart tiff file(s) to the Epson Edge Print software.
- Click on "Basic Settings" and select your newly created print mode.





#### Important

- 1) Click on "Color Settings"
- 2) Select the tab "Input"
- 3) Confirm the profile "Not Applied" is selected for CMYK
- 4) Confirm the profile "Not Applied" is selected for RGB
- 5) Click on "Print" (print out all profile charts)





After printing the profile chart(s) switch back to the i1Profiler software and click "Next".





- Prepare the printed profile charts for measurement.
- Select "Dual scan (M0, M1 ,M2 and OBC)" as the measurement mode.
- We will use the measurement result of M1 at a later stage.





- After measuring, the "Measurement Data Parameters" become selectable.
- Select "M1 (D50)" as the measurement condition.





- 1) Click on "Save".
- 2) Confirm that for "Save as type" the file type "i1Profiler CGATS CUSTOM (\*.txt)" is selected.
- 3) Click on "Save".





Make sure "CMYK", "Reflectance Spectrum", and "L\*a\*b\*" are checked.
 Click on "OK".

CGATS file format options ? ×				
Custom CGATS Options				
Data sets:	Sa	ive all available data sets r	-	
Data fields:	<b>Z</b>	SampleID		
		SampleName		Location Info 🔹 🔹
	۷	СМҮК		
		хүz		хуҮ
	◙	Reflectance Spectrum		
		L*a*b*		L*C*h
CIE Standard Illuminan	t:	D50 -		
CIE Standard Observer		2°		
Density:		Status T 🔹 🔻		Minus Paper
Decimal separator:	۲	Period [.]	0	Comma[,]
Output scale:	۲	0.0 - 1.0	0	0.0 - 100.0
Spectral range:	۲	380 to 730 nm	0	400 to 700 nm
				OK Cancel



- 1) Select "D50" as lighting.
- 2) Click on "Save".
- 3) Click on "Next".





#### Important

Select ICC profile version "Version 2", (Epson Edge Print cannot import "Version 4").





Click on "Save Profile" to create the color profile.

i1Profiler		-	• ×
Assets			
	LUC Profile		
▼ Patch Sets	Profile Settings		
ECI 2002 CMYK random transposed.pxf			
ECI 2002 CMYK randompid	📴 1111_ECI 2002 CMYK random		
ECI 2002 CMYK visual transposed.pxf			
ECI 2002 CMYK visual.pxf	▼ Profile Name		
i1Profiler 2033 Patches.pkf	Fig. name: 1111_ECI 2002 OM/K random		
IT8.7-3 CMYK visual.pxf			
IT8.7-4 CMYK random transposed.pid	incluse Cor arts 💌		
IT8.7-4 CMYK random.pkf	T Profile Distribution		
II8.7-4 CMYK visual transposed.pxf			
II8.7-4 CMYK visual.pd	System levet 🤟		
TC35 CMYKpd	Hot talan: Of/Users/0097110/Desktop/From 🔫 🕐 👄		
<ul> <li>Hest Charts</li> <li>Net ECI 2002 CMVK random 18 (1)Obd</li> </ul>			
ECI 2002 CMVK random 1P (1)Six VI BC tvf			
SECT 2002 CMVK random 1P IIISIS XI but			
M ECI 2002 CMVK random 1P IIISis but			
ECI 2002 CMYK visual 1P i1iO Scan PM5.taf			
N FCI 2002 CMVK visual 1P 11iO1vf			
ECI 2002 CMYK visual 1P i1iSis XI. BC.tvf	Click the button below to begin creating your new profile.		
FCI 2002 CMVK visual 1P i1iSis XLtvf			
FCI 2002 CMVK visual 1P i1iSis.txf			
IT&7-3 CMYK visual 1P i1iO Scan PM5.txf			
IT87-4 CMYK random 1P I1IO.txf			
178,7-4 CMYK random 1P I1ISIs XL BC.txf			
T8.7-4 CMYK random 1P I1ISis.txf			
TR7-4 CMYK visual 1P I1IO.bd			
T8.7-4 CMYK visual 1P i1ISis XL BC.txf			
178.7-4 CMYK visual 1P i1iSis.bd			
TC3.5 CMYKI1IO.bd			
▼ Measurement Data			
1111_ECI 2002 CMYK random/md	See Parks		
default-i1iO.md			
default-i1iSis.md	the second secon		
default-i1Pro.md	<ul> <li>Prese contects the main statute;</li> </ul>		
ECI PSR LWC PLUS V2 Large.md			
ECI PSR LWC STANDARD V2 Large.maf			
ECLARK NEWS PLUS (MF) V1 EC/2002/mid			
EU PSK SC PLUS V2 Largend			
20 CU PSK SU STANDAKU YZ Large md Uci PCCD 320 mmd			
KI FOGRASSI met		(	<)(a)
VC EDGPA121 mmf			
A FOGRANI mat		Per	evisus Name
DGRAMU muf	🚔 Printer Profiling Workflow		
RogRassLmd			
ROGRA36Lmuf			
K FOGRA37Lmuf			
K FOGRA38Lmuf			
C FOGRA39Lmsf			
K FOGRA40Lmaf	Patch Sat Tast Chart Manusament Lighting Profile Sations ICC Profile		
Character a			
5. := 2. 0			
Full Screen Assets Help Home	Let the second se	d Workstow S	ave Workflow

The color profile has been created.







# 5. Importing media profile to Epson Edge Print

Import created profile to print mode which you created. Tool > Manage print info > select print mode you created.

sh		
📴 Manage Preset		X
Manage Print Info	+ 🖸 🖊 Add Copy Edit	Delete Deactivate Sync
Quick Sets	▲ 3M ▲ Adhesive Vinvl	Details     Media Name: Test
Color Collection	<ul> <li>✓ IJ180mC-10<v0.2></v0.2></li> <li>▲ Film</li> <li>✓ IJ8150<v0.2></v0.2></li> </ul>	Vendor: 4M Media Type: Adhesive Vinyl Media ID: Current Media Setting
Options Settings	<ul> <li>▲ 4M</li> <li>▲ Adhesive Vinyl</li> <li>▲ Test</li> <li>▲ Ahlstrom</li> <li>▲ Non-woven Wallpaper</li> <li>◆ BR9708<v0.2></v0.2></li> <li>▲ Avery Dennison</li> <li>▲ Adhesive Vinyl</li> <li>◆ MPI 3000<v0.2></v0.2></li> <li>▲ Bantex</li> <li>▲ Banner</li> <li>◆ 13oz TWO-Sided <v0.2></v0.2></li> <li>▲ Ferix Schoeller</li> <li>▲ Paper/Other</li> </ul>	Print Quality <ul> <li>             600x300dpi - 1pass             </li> <li>             Print Mode: 600x300dpi - 1pass             Media Profile: R5000 Series_Orajet 3165G-010_6.5p             Density Control: Color: 100%             Before-Print Margins: 0.0mm             Drying Time: 0 sec             Input Resolution: 300x300dpi             Calibration date: -             Optimizer 9         </li> </ul>
	<ul> <li>✓ J33130 SLP<v0.2></v0.2></li> <li>▲ Non-woven Wallpaper</li> <li>✓ W50432 Hamburg<v0.2></v0.2></li> </ul>	Memo
	<ul> <li>✓ Heytex</li> <li>✓ Banner</li> <li>✓ H3512-0026<v0.2></v0.2></li> </ul>	•





### 5. Importing media profile to Epson Edge Print

- Open the Epson Edge Print software and select the printer "R5070" or "R5070L"
- · Click on "Tool" and select "Manage Print Info"
- Select your print mode and click on "Edit".



• Click on "Add...".

😰 Edit Print Information	1		×
Media Name:	Te	st	
Vendor:	41	~ N	]
Media ID:	Cu	urrent Media Setting	]
Print Quality:			2
Name	Print Mode	Media Profile	Add
1200x1200dpi - 9pass	1200x1200dpi - 9pass	R5000 Series_Orajet 3165G-010_9.0p.	Delete
			E 12
			Edit
•		•	
			1
Memo:			
Merrio.			



# 5. Importing media profile to Epson Edge Print

- · Click on "Browse ... "
- · Select your newly created ICC color profile file.
- Click on "Proceed".



Your ICC color profile has successfully been imported to your print mode.







