



Sales Training Swiftcolor



Digital Printer Business Unit of



January, 2015

Revision 0.0

- 1. What is difference of INKJET and Thermal Ribbon. (Advantage)
- 2. Overview of Swiftcolor product
- 3. General Q&A
- 4. Recommend Application
- 5. Price (List Price/Per Print Cost)
- 6. Durability (Machine/Media)
- 7. Maintenance
- 8. Setup
- 9. How to proceed shipping mode
- 10. How to use driver functions
 - 1. Overlay Printing
 - 2. Pinpoint color print
 - 3. Supplements
 - 4. Color matching

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- **I** IJ printing Security Merit
- **High Print Quality**
- High Productivity
- Multi size media Printing
- Multi Kind Media Printing
- Broaden Color Space/gamut

IJ Printing Security Merit

	<u>IJ printing</u>	Thermal transfer printing
Features		123
Information protection	No information remains No care about used ink	Printed information remains on the used ink ribbon Must be careful about leak of information
Ink consumption	Ink is used only for printing area No ink is wasted	Entire card range of ribbon is used for every color Most of the ink ribbon is wasted

High Print Quality

1,200dpi print resolution enables to print very clear small characters and small barcodes





Product Advantage

High Productivity

Swiftcolor Card Printer

Thermal Transfer Printer



Product Advantage

Multi size media printing



Thermal Ribbon Printer



Inkjet technology could be supported media size variety.So, many application and new market will be opened.

Multi kind media printing

1) Effective use contributes cost reduction



Multi kind media printing

2) Multi kind Media Printer works all seasons ,all time.



Color Space/ gamut

Inkjet printer has broader color space in every color (YMCRGB) compared to the dye-sublimation type printer



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(SCC-2000D/P)

Overview of Swiftcolor product



		Swift Color SCC-4000D	Swift Color SCC-2000D
Printing Technolog	у	4" width Single-Pass Inkjet	2" width Single-Pass Inkjet
Photo			
Resolution		1,200 dpi	1,200 dpi
Type of ink		Dye based ink	Dye based ink
	CR-80 ID card	100 cards / min	50 cards / min
Throughput	Business card	100 cards / min	50 cards / min
	90 x 140 mm	45 sheets / min	-
Media		IJ coated Plastic & Paper cards	IJ coated Plastic & Paper cards
Security		No print trace remained	No print trace remained
Print-head Lifecycle *(Business card, 7.5% duty for each color)		1,200,000 prints or 5years	500,000 prints or 5years
# of card print per cartridge		5,000 – 35,000 cards	700 – 3,500 cards
Single-pass printing		Central mass-production model	Department, Small sales office, Branch office, Reception



Specifications



	SCC-4000D	SCC-2000D		
Print Technology	Inkjet, Single pass printing	Inkjet, Single pass printing		
Type of Ink	Dye based ink	Dye based ink		
Ink Color	4 colors (Black, Cyan, Magenta & Yellow)	4 colors (Black, Cyan, Magenta & Yellow)		
Dimensions	595 (W) x 410 (H) x 463 (D) mm 23.3" (W) x 16.1" (H) x 18.2" (D)	391 (W) x 180 (H) x 179(D) mm 15.4" (W) x 7.0" (H) x 11.0" (D)		
Weight	Approx. 25 kg	Approx. 8 kg (Excluding ink tanks)		
# of Print-head	4	4		
Max. Print Width	107.8mm / 4.24"	57.4mm / 2.26"		
Max. Print Length	297.0mm / 11.69"	171.4mm / 6.75"		
Data Interface	USB2.0, High speed function Gigabit Ethernet	USB2.0, High speed function Gigabit Ethernet		
Power Supply	100 - 240 v, 50 - 60 Hz	100 - 240 v, 50 - 60 Hz		
Power Consumption	250w or less	250w or less		
Operational environment	15 degreeC/10% - 30 degreeC/80%	15 degreeC/10% - 30 degreeC/80%		
	Width: 85 - 120 mm / 3.35" - 4.70"	Width: 51 - 58 mm / 2.00" - 2.28"		
Media Size	Length: 49 - 300 mm / 1.90" - 11.81"	Length: 81 - 172 mm / 3.19" - 6.77"		
	Thickness: 200 - 760 um	Thickness: 210 - 760 um		



Specifications



		SCC-4000D	SCC-2000D
Print Speed	Business card	(55 x 91 mm): 100 sheets/min	Business card (55 x 91 mm): 50 sheets/min
(Copy Mode)	Postcard (100	x 148 mm): 45 sheets/min	Plastic card (54 x 85.6 mm): 50 sheets/min
	Envelop (235 >	x 120 mm): 28 sheets/min	
	Business card:	500 sheets	Business card: 250 sheets
Deck Capacity	Postcard: 500 sheets		Plastic card: 100 sheets
	Envelop:	100 sheets	
Ink cartridges	105 ml for Bk/	C/M/Y each color	14.5 \pm 0.3ml for Bk/C/M/Y each color





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General Q&A

- Q: Can we print onto general paper/Normal PVC?
- A : No, you can't. IJ coated media is required. Please test before use.
- Q : What will happen if we print onto general paper/Normal PVC?
- A : Sometimes ink adheres to the back side of cards because of lack of ink dryness.
 Also, it may cause paper jam, transporting several cards at one time, and skew.
 There may occur other troubles except above.

Regarding Normal PVC, this media do not absorb our ink. Thus cannot be used.

- Q : Can we print on both side?
- A : After printing one side, you need to turn cards over and set them again for printing.
- Q: Can we print on edge to edge?
- A : No, you can't. However SCC-2000D achieves nearly edge to edge.
 SCC-4000D margins "Top/Bottom 1.5mm" and "Right/Left 2.0mm" are needed.
 SCC-2000D margins "Top/Bottom 0.3mm" and "Right/Left 0.3mm" are needed.
- Q: Which type is the ink Dye type or Pigment type?
- A: The ink is Dye type.
- Q: How long is Ink Tank guaranteed for working?
- A: Within 24 months (Within 6 months after it is installed)
- Q: How long is Ink Tank guaranteed for working?
- A: Within 24 months (Within 6 months after it is installed)

General Q&A

- Q: How long can we use this printer itself?
- A: SCC-4000D work for 1.5 million sheets or 5 years. SCC-2000D work for 0.5 million sheets or 5 years (General name card's size, Printing coverage is 7.5% duty)
- Q: How often should we exchange maintenance cartridge?
- A: SCC-4000D: About 72,000 sheets (Subject to change by using condition) SCC-2000D: About 35,000 sheets (Subject to change by using condition)
- Q: How much does it cost per 1 sheet?
- A: It depends on the printing image and your setting. Please calculate it by "Ink Cost Tool" we offer.
- Q: Do we need to clean printer periodically? A: Yes, you need. Please refer to the chart right.
- Q: Can we use this printer by Mac OS?
- A: We are sorry, but you can't.
- Q: PostScript can be used for this printer?
- A: We are sorry, but it cannot be used.



7.5% duty: Standard Image

1	Print head cleaning (via Driver)	When you find Print image failure
1-1	Print head cleaning (Use cleaning stick)	Advanced operation to proceed after #1.
2	Register adjustment	When color gap occurs. In exchanging Print Head.
3	TOF sensor cleaning	Whenever needed
4	Transporting Unit Cleaning	Whenever needed

Q: Does it require Lamination?

A: Depends on use. Laminator should be prepared separately. *Lamination right after printing may cause migration.

Q: Can we print on print RFID cards?

A: Able to print however, requires to input data separately to the RFID.

- Q: Are there any consumables other than ink tank?
- A: Maintenance cartridge is required to collect maintenance ink. Replacing timing differs depending on how it is used.
 Reference)
 Average maintenance ink replacement timing

SCC-4000D : 72,000 sheets with standard condition.

SCC-2000D : 35,000 sheets with standard condition .

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Success Case

Keyword is replacement XXL Printer

Customer: Famous baseball, American foot ball club and Event company

Printer: SCC-4000D

Application: Large format size card

Advantage: No Pre-Print, print speed;

- ✓ A customer has 2 concern
- 1. They can't estimate requirement number of large format card for one event. So, they need to purchase more than enough card because competitor printer need pre-print card. After changed to SCC-4000D, they didn't care about such wasted expense.
- 2. Due to event pass, requirement delivery time is really short. So, they need to dispatch special printing person for 24hr printing. After changed to SCC-4000D, they could shorten lead time drastically.
- Keyword is everyday different information

Customer: Huge Pharmacy Company

Printer: SCC-4000D

Application: Seminar ID Pass

Advantage: On demand Digital Printing

- ✓ Good point
- 1. A customer would like to print name as Big size character on front and to print daily schedule on back. So, SCC-4000D really fits this customer's demand
- 2. A customer print name card when a printer doesn't print Seminar ID Pass.

Office Use

Employee ID Card and Business Card



Retail Use (Ex. : Retail Shop, Service Industry (Beauty shop, Tax shop)

Reward/member's Card (Plastic) + shop card, service ticket (Paper)



Amusement Use (Example : Aquarium, Zoo, Amusement/Theme Park, Museum,...)

Annual Pass (1 year durability) and Effective use of Paper Card



Entertainment Use (Example : Baseball Team, Football Team, Music Group, ...)



Entertainment Use (Example : Local sports club, Community Facilities, ...)

Member Card, Memorial card, Event Card





Group member card Attendee card



Community center member card for use of pool, gym, library...

If he/she did good play in the game, make memorial Card and give for his/her Parents !!





Team/Event Information Card

Entertain member!

Contribute Club management



Memorial Card for praising great job





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Desk-top Ink Jet Card Printer SCC-4000D

- 1. Printer (SCC-4000D) Euro6,895
 - 2. Ink Cartridge (100ml) Euro100.-/cartridge 4 cartridges (YMC and K) are required.
 - 3. Maintenance Cartridge

Euro6,895.-/printer

Euro 45.-/cartridge

The above prices may subject to be changed due to exchange rate without any notice.







Counter-top Ink Jet Card Printer SCC-2000D

- 1. Printer (SCC-2000D)
- 2. Ink Cartridge (14ml) Euro 25.-/cartridge 4 cartridges (YMC and K) are required.
- **3.** Maintenance Cartridge

Euro 4,495.-/printer

Euro 29.-/cartridge

The above prices may subject to be changed due to exchange rate without any notice.







Consumables

3. Cards

1. Business Card

1.	Business Cards (Matte White)	100 cards/set	€2.60/set
2.	Business Cards (Matte Natural)	100 cards/set	€2.60/set
3.	Business Cards (Matte Cream)	100 cards/set	€2.60/set
4.	Business Cards (Thick White)	100 cards/set	€2.60/set

2. Plastic Cards (Mat/Gloss Surface)

1.	CR-80 (85.6mm x 54mm)	250 cards/set	€62.50/set
2.	Large Size (90mm x 140mm)	100 cards/set	€75.00/set

3. Thick Paper Cards

 1.
 CR-80 (85.6mm x 54mm)
 250 cards/set
 €37.50/set

 2.
 Large Size (90mm x 140mm)
 100 cards/set
 €45.00/set

The above prices may subject to be changed due to exchange rate without any notice.



Running Cost



			SCC-4000D		SCC-2000D				
Image	Color	Media (PVC)	Ink	Cost	Total	Ink	Cost	Total	
CR-80 (84mm x 54.6mm)	Black		0.00243 ml			0.00212 ml			
KAZU SEKINE	Cyan	€0.25		0.00094 ml	€ 0.007	0.0.057			
Manager Electronics and Devices Dept.	Magenta	€0.25	0.00148 ml	€ 0.007		0.00057 ml	€ 0.007	€ 0.257	
Containases 34. Dispession Germany D-40211 TEL: 49-1021-3489-234 FAX: 49-0021-3489-211 Modile: 49-(0)176-1005-3111 Modile: 49-(0)176-1005-3111	Yellow		0.00115 ml			0.00049 ml			
E-Hall, Kapalingkanenaawwe									
Image	Color	Media (PVC)	Ink	Cost	Total	Ink	Cost	Total	
CR-80 (84mm x 54.6mm)	Black		0.00172 ml			0.00236 ml			
Newbury State	Cyan	6.0.25	0.00326 ml	C O O O O O O O O O O O O O O O O O O O	0.00407 ml	6 0 026			
	Magenta	€0.25	0.00804 ml	€ 0.020	€ 0.020 € 0.270	€0.270	0.00692 ml	€ 0.036	€ 0.286
	Yellow		0.00707 ml	07 ml		0.00665 ml			
THE PARTY OF THE STATE OF THE PARTY OF THE P									

Image Large (90mm x 140mm)



Color	Media (PVC)	Ink	Cost	Total	Ink	Cost	Total
Black		0.00360 ml			-		
Cyan	€0.75	0.00832 ml	€ 0.032	€ 0.782	-		
Magenta	€0.75	0.00862 ml	€ 0.032	€0.782	-	-	-
Yellow		0.01133 ml			-		

*Print Condition 100print/job



Running Cost – Print condition -



					SCC	-4000D	
Image	Condition	Color	Media (PVC)	Ink	Cost	Total	Printable Number
Large (90mm x 140mm)		Black		0.00360 ml			27,799 pcs
	100 mint (in h	Cyan	C 0 75	0.00832 ml	C 0 022	C 0 702	12,025 pcs
	100print/job	Magenta	€ 0.75	0.00862 ml	€ 0.032	€ 0.782	11,594 pcs
		Yellow		0.01133 ml			8,829 pcs
Image	Codition	Color	Media (PVC)	Ink	Cost	Total	Printable Number
Large (90mm x 140mm)		Black		0.01020 ml	€ 0.058	€ 0.808	9,804 pcs
	10print/job	Cyan	€ 0.75	0.01492 ml			6,703 pcs
	TODIUIT/JOD	Magenta	€0.75	0.01523 ml			6,567 pcs
		Yellow		0.01793 ml			5,577 pcs
Image	Codition	Color	Media (PVC)	Ink	Cost	Total	Printable Number
Large (90mm x 140mm)		Black		0.07622 ml			1,311 pcs
	1 print/iph	Cyan	€ 0.75	0.08094 ml	€ 0.323	€ 1.073	1,235 pcs
Experience of the second se	1print/job	Magenta	£0.75	0.08125 ml	€ 0.523	£ 1.075	1,230 pcs
SIMON CAGE		Yellow		0.08395 ml			1,191 pcs

*Regarding SCC-4000D, a print cost and printable number is related with print condition due to auto cleaning process. (SCC-2000D doesn't change much up to print condition.) *Even print condition has a impact for ink cost, total cost is occupied by media cost.



Print Cost Comparison



Plastic Card : €0.27 - Card: €0.25 - Ink: €0.02	Firster R and State Firster R and Firster R State State State State State <tr< th=""><th>.40</th></tr<>	.40
30mil Paper Card : <u>€0.17</u> - Card: €0.15 - Ink: €0.02	Fight P Gr 0457 Fight P Gr 0457 Fight P Gr 0457 Standard Street 85-90% off Exployed Total Create paper card	
Paper Card : <u>€0.046</u> - Card: €0.026 - Ink: €0.02	EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEM	
	Thermal ID Card Printer	

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Durability



	Swift Color SCC-4000D	Swift Color SCC-2000D
Printing Technology	4" width Single-Pass Inkjet	2" width Single-Pass Inkjet
Photo		
Printer Life	1,500,000 prints or 5years	500,000 prints or 5years
Print-head Lifecycle *(Business card, 7.5% duty for each color)	1,200,000 prints	500,000 prints
Warranty (without warranty)	1 year	1 year
# of card print per ink cartridge	5,000 – 35,000 cards	700 – 3,500 cards
# of card print per maintenance cartridge *(Business card, 7.5% duty for each color)	72,000 cards	35,000 cards
# of card print per cartridge/roll	5,000 – 35,000 cards	700 – 3,500 cards



7.5% duty: Standard Image



SCC Ink (Y/M/C/K)

- Swiftcolor uses water based dye ink. Able to produce vivid color and sharp images.
- Swiftcolor dye ink has high durable resistance compared to Thermal ribbon.
- Depending on use, Lamination required in case of exposing to water or chemical (liquids.)
- *Ink resistance result depends on used Media, therefore please test before use
- Media list
 - 1. Business Card
 - 1. Business Cards (Matte White)
 - 2. Business Cards (Matte Natural)
 - 3. Business Cards (Matte Cream)
 - 4. Business Cards (Thick White)
 - 2. Plastic Cards (Mat/Gloss Surface)
 - 1. CR-80 (85.6mm x 54mm)
 - 2. Large Size (90mm x 140mm)
 - 3. Thick Paper Cards
 - 1. CR-80 (85.6mm x 54mm)
 - 2. Large Size (90mm x 140mm)
- Media Durability Test results written in the following pages
Swiftcolor Media Durability Test



[Printer] SCC-4000D/(160mm/sec)

[Media] Thick Paper, Matt, Gloss, Direct YMCK, Direct YMCKO, Retransfer

[Conclusion] Swiftcolor media has enough durability to use under general condition.

			Swiftcolor Inkj			Thermal Ribbon	
		1	3	4	5	6	$\overline{\mathcal{O}}$
ltem	Content	Thick Paper	Matt	Gloss	Direct YMCK	Direct YMCKO	Retransfer
Durability	Plastic Eraser (PVC) TOMBO PE-LTS	Excellent	Excellent	Excellent	Poor (Transferred)	Excellent	Excellent
for plastic 50°C 10Hr Weighted	Plastic Eraser (PVC-P) KOKUYO KESI-70	Excellent	Excellent	Excellent	Poor (Transferred)	Excellent	Excellent
	Rubber Band	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Durability	200g weight (Inserting paper : Silbon Paper)	Excellent	Excellent	Excellent	Excellent (Scratch Scar)	Excellent	Excellent
for Scratch 500times	500g weight (Inserting paper : Silbon Paper)	Acceptable (Little Tailing)	Excellent	Excellent (Scartch Scar)	Excellent (Scratch Scar)	Excellent	Excellent
Durability for Light	100h exposure (1year in room)	Acceptable	Acceptable	Acceptable	Poor	Poor	Poor
Durability for Water	Drop water	Excellent	Acceptable (Ring Stain)	Acceptable (Ring Stain)	Excellent	Excellent	Excellent
Durability for Chamical	Drop Ethanol	Excellent	Excellent	Acceptable (Little Bleeding)	Poor (Bleeding)	Excellent	Excellent
Durability for Chemical	Drop IPA (kind of Alcohol)	Excellent	Excellent	Acceptable (Little Bleeding)	Poor (Bleeding)	Excellent	Excellent
Rer	nark	Availabel		ailable Condition	Unavailable	Avai (Short	





	Sw	/iftcolor Ink	jet	Th	nermal Ribbon	
	Thick			Direct	Direct	
Color	Paper	Matt	Gloss	ҮМСК	ҮМСКО	Retransfer
Bk	49%	65%	52%	36%	42%	58%
Y	75%	87%	77%	27%	30%	67%
М	71%	52%	67%	35%	44%	58%
С	91%	93%	87%	30%	37%	49%

: More than 50% Less than 80%

: Less than 50%



Thick Paper



Weather Resistance			Media	1 Thick P
Ini	tial			
	Water	1drop		
Drop	EtOH	1drop		
	IPA	1drop		
Dip	Water	5min		
Rubbed	Dry	200g		
500times)	Dry	500g		
lasticizer	PVC ERASER	PVC-P ERASER		
0℃10Hr	rubbe	r band		
Light		/m^2, 0h		

Little Tailing

Yellowish/Migration





Matt



Weather F	Resista	nce	Media	③New Mat		
Ini	tial					
	Water	1drop				Ring stain
Drop	EtOH	1drop				
	IPA	1drop				
Dip	Water	5min				
Rubbed	Dry	200g				
(500times)	Dry	500g				
Plasticizer	PVC ERASER	PVC-P ERASER				
50℃10Hr	rubbe	r band				
Light		//m^2, 00h			Ye	llowish/Migrat



Before



tion



Weather	Resista	ance	Media	④New Gloss	
Ir	iitial				
	Water	1drop			Ring stain
Drop	EtOH	1drop			Little bleedin
	IPA	1drop			Little bleedin
Dip	Water	5min			
Rubbed	Dry	200g			
(500times)	Dry	500g			
Plasticizer	PVC ERASER	PVC-P ERASER			
50℃10Hr	rubbe	r band			
Light	- ALCONGER !!	//m^2,)0h			Yellowish/Migrat



* BigGebss

After

4





Weather	Resista	ance	Media	5Direct YMCK	
In	itial				
	Water	1drop			
Drop	EtOH	1drop			Bleeding
	IPA	1drop			Bleeding
Dip	Water	5min			
Rubbed	Dry	200g			
(500times)	Dry	500g			
Plasticizer	PVC ERASER	PVC-P ERASER			Transferred
50℃10Hr	rubbe	r band			
Light	100000000000000000000000000000000000000	//m^2, 00h			Yellowish/Migra
					N



After



Direct YMCKO



Weather Resistance			Media	©Direct YMCKO
In	itial			
	Water	1drop		
Drop	EtOH	1drop		
	IPA	1drop		
Dip	Water	5min		
Rubbed	Dry	200g		
(500times)	Dry	500g		
Plasticizer	PVC ERASER	PVC-P ERASER		
50℃10Hr	rubbe	r band		
Light	1.	/m^2, 0h		
	10			



Before

After

Yellowish/Migration



Retransfer



Weather Resistance			Media	⑦Retransfer
In	itial			
	Water	1drop		
Drop	EtOH	1drop		
	IPA	1drop		
Dip	Water	5min		
Rubbed	Dry	200g		
(500times)	Dry	500g		
Plasticizer	PVC ERASER	PVC-P ERASER		
50℃10Hr	rubber band			
Light		/m^2, 0h		

Yellowish/Migration



Before



After



swiftcolor

[Printer] SCC-4000D/(160mm/sec), SCC-20000D [Media] Thick Paper, Matt, Gloss [Circumstance] JJ: 25°C40%), LL : 15°C/30%, HH: 30°C/80%

[Image] Front: ISO(Fruit), Back: Swiftcolor Test Pattern

[Image] Number: 200pcs/Circumstance

【Check Point】

- Checking feeding condition (accuracy of feeding)
- Checking exit media condition
- Checking shelf test condition



ISO (Fruit)



Slipping Jam

[Media]: Gloss PVC [Printer]: SCC-4000D [Problem]: Slipping Jam occur at around separation roller [Reason]: Mechanically printed side touches the separation assistance pat. In case of printing high density image side first, and flipping over the media to print the blank back side, slipping jam may occur due to high coefficient of friction. (For printing both side)

[Countermeasure]:

- 1. For printing both side, print low density image at front side and print high density image after.
- 2. Will change less sticky Gloss media



Problem and Countermeasure



Media Double Feeding

[Media]: Matt PVC [Printer]: SCC-4000D, SCC-2000D

[Problem]: Media Double Feeding

[Reason]: A flashing at edge of media. And static electronic.

[Countermeasure]:

- 1. Mass production media use a card shape cutter. So, a flashing will be decreased.
- 2. A media box include below instruction. Before set up media, please flip through a plastic card.





Touch Print Head Surface

[Media]: Thick Paper

[Printer]: SCC-2000D

[Problem]: Due to media curling issue, a print head surface touches thick paper media.

[Reason]: Under low humidity circumstance(27 degC 38%), thick media strongly curls and touches the head surface.

SCC-4000D doesn't occur this issue due to guide of media.

[Countermeasure]:

- 1. Do not set Micro Margin printing with thick paper. (Use the paper guide to flatten the media.)
- 2. We'll release new thick paper media in 2015.

Summarize feeding test result

			Gloss PVC	Matt PVC	Thick Paper
SCC-4000D	٦\٦	Feeding	Slipping (only back side printing)	ОК	ОК
		Image	ОК	ОК	ОК
	L/L	Feeding	Slipping (only back side printing)	Multi feeding After flipping, OK	ОК
		Image	ОК	ОК	ОК
	Н/Н	Feeding	Slipping (only back side printing)	Multi feeding After flipping, OK	ОК
		Image	ОК	ОК	ОК
SCC-2000D	1/1	Feeding	ОК	ОК	ОК
		Image	ОК	ОК	Touch print head surface (Media curling issue)
	L/L	Feeding	ОК	Multi feeding After flipping, OK	ОК
		Image	ОК	ОК	ОК
	Н/Н	Feeding	Multi feeding After flipping, OK	Multi feeding After flipping, OK	Multi feeding After flipping, OK
		Image	ОК	ОК	ОК
Shelf test			OK	ОК	Under less than 27°C38%, a media will be curling.





For Telephone operator

- 1. What is difference of INKJET and Thermal Ribbon. (Advantage)
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- 5. Price (List Price/Per Print Cost)
- 6. Durability (Machine/Media)
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- 10. How to use driver functions
 - 1. Overlay Printing
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 - 3. Supplements
 - 4. Color matching



Maintenance



	Swift Color SCC-4000D	Swift Color SCC-2000D
Photo		
	Customer Maintenance	
Cleaning the transport unit with dry towel	As needed	As needed
Media Pick Up Roller	As needed	As needed
Manual software cleaning	When print quality is poor (Light, Medium, Strong)	When print quality is poor (Light, Medium, Strong)
Registration adjustment	If color registration is out of alignment	If color registration is out of alignment







Туре	Amount of ink consumed (ml)
Light cleaning	0.8ml/4heads
Medium cleaning	3.2ml/4heads
Strong cleaning	10.0ml/4heads



••••• Cleaning method by Service Utility





SCC-4000D Overview :

Please refer to section 1-5, 1-6, 1-7, 1-8 (Component Names) on SWIFTCOLOR SCC-4000D Service Manual.

SCC-2000D Overview :

Please refer to section 1-5 (External View/Internal View) on SWIFTCOLOR SCC-4000D Service Manual.





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Please see video; SCC-4000D: <u>http://www.swiftcolor.com/SCC4000-setup-video.php</u> SCC-2000D:



Please see manual;

SCC-4000D: SCC-4000D Start Guide.pdf SCC-2000D: SCC-2000D Set Up Guide.pdf For Telephone operator

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[Draining ink]

- 1. Connect PC to Printer and start Service Utility.
- 2. Open [Cleaning] tab and click [Shipping the printer]. (Returns ink in the ink flow path to Ink Tank.)

Information	Pa	rts Replacement	Troubleshooting
Printer Information	Cleaning	Test Print/Adjustment	Send the update file
aning			
Light Cle	aning		
Medium Cl	leaning		
Strong Cle	aning		
eparation before transp	ortation		
Shipping the	e printer		
Moving the	printer		

3. Remove Ink Tanks when the following message is displayed.

*swift*colo

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4. Close Ink Tank Door.

(Feeds back ink in nozzles and Purge Unit to Maintenance Cartridge.)



CAUTION: Do not operate Printer until the message is displayed.

[Draining ink]

1. Ink drainage is completed when the following message is displayed.

Complete X	
Preparation before shipping has been completed. Ship the printer without ink tanks inserted. Setup cleaning runs automatically when you turn on the power next time.	CAUTION: Do not operate Printer until the message is displayed.
ОК	

2. Turn off the power and remove Power Cable.



Preparation for Secondary Transportation - Normal

[Packing]

1. Attach cushions (at 3 positions).









[Packing]

CAUTION: Do not transport Printer with Ink Tanks. Do not remove Maintenance Cartridge.

 Wrap Printer with a plastic bag.
Attach pads and place Accessory Box on the upper pads.



- 4. Put the upper box.
- 5. Attach grips (at 4 positions).

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6. Completed package







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Please see manual SCC-4000D: SCC-4000D USER'S GUIDE SCC-2000D: SCC-2000D USER'S GUIDE

Overlay Printing Function

What is the "Overlay" function?

- How to use the "Overlay" function
- 1. Create a Form file (ofe. file)
- 2. Overlay Printing

What is the "Overlay" function?

When printing labels with variable data, it may take time if image file is used as below.

By using Overlay function, it helps to improve print throughput by registering the image data (fixed data) separately.



How to use the "Overlay" function

Make a label data separately for

- 1. Fixed data (as a form file [.ofe])
- 2. Variable data



1. Create a Form file [.ofe]

- Open the file which you want to print as a background (fixed data)
- Then, execute a print job.

<Printing Image Example 1> ~fixed data only~





1. Create a Form file [.ofe]

On "Overlay Setting" tab in printer driver, check the box of Overlay and select "Print the form to the file".

/ Overlay - Print Mode -						
	o <u>O</u> verlay F	rinting	Pr	int the form to the	file(<u>C)</u>	
<u>F</u> ile Name						Reference(<u>B</u>)
Form File In fo	rmation			Preview	Commen <u>t</u>	
			*		Print t simple	he overlay with setting
urrent Setting urrent Setting						<u>D</u> efaults

1. Create a Form file [.ofe]

- Decide "1. File Name" and "2. Where to save the [.ofe] file"
- Also, you can write "3. comment" in the box below.
- After set up is completed, click OK

🔘 Overlay Printing	Print the form to the file(C)	(2)
File Name D:¥Users¥08486¥Desktop¥141206_ojve	rlayofe	Reference(B)
Form File Information	Preview	Comment
	*	overlay: Turkey pot pie
		Print the overlay with simple setting
	Ŧ	

 When the print execution window appears again, click [Print]. Print data will be used as a form file.
*Be sure to turn on the printer before executing print

The data is saved in the folder created as a form file.

2. Overlay Printing

- Open the file which you want to print as a variable image.
- Then, execute a print job.

<Printing Image Example 2> ~variable data only~

BarTender Enterprise Automation (Trial) - [Document1.btw *]	
<u>Eile Edit View Create Arrange Administer Tools Window H</u> elp	
D 🚰 🖃 🖹 😂 💪 & 🖻 🟝 🍠 <	
Components 4 x Document1.btw *	▶ ×
a Samples	
	±±.
	■ <mark>110</mark>
	÷.
	<u>+ +</u>
	+ +
	∎⇔∎
8/13/2014	
	90.
	180°
5678901234	90-
	▼ 90°
Z Data Sources R Components	
Data Sources Components Com	↓ 0% ▼

2. Overlay Printing

On "Overlay Setting" tab in printer driver, check the box of Overlay and select "Overlay Printing".

📾 Swiftcolor SCL-4000D (2 コピー)のプロ	ロパティ	×
🔺 Page Setup 🧷 Color 🔀 Cutter Se	ttings 😤 Overlay Settings 🥖	Advanced Settings 🕺 Utility
♥ Overlay Print Mode © ©verlay Printing	Print the form to the file(2
File Name		Reference(<u>B</u>)
Form File Information	Pre view	Commen <u>t</u>
	-	Print the overlay with simple setting
Current Settings: Current Settings		<u>D</u> e faults
	ОК	キャンセル ヘルプ
2. Overlay Printing

- Click Reference and choose the [.ofe] file you created.
- Check information in "1. Form File Information" and "2. Preview".
- After set up is completed, click OK

✔ Overlay Print Mode	Overlay Printing	Print the form to the file(C)	
File Name D:¥Users¥08486¥	Desktop¥1 41 206 overlay.ofe		Reference(B)
Form File Information Paper Form: Paper Width: Paper Length: Top Margin: Left Margin: Print Region(W) Print Region(L) Print quality:	0000 Lsbel/Gsp 5007dot(106.0mm) 6000dot(127.0mm) 72dot(1.5mm) 165dot(3.5mm) 4586dot(97.1mm) 5857dot(124.0mm) Input resolution 1200dpi	Preview Case of Individual Turkey Pot Pies Figure Potential	Comment
Durrent Settings: Durrent Settings			Defaults

Execute a print job.

Print data is printed overlaid with the form file.



- Overlay printing would be disabled if the print setup information differs between the print data and the form file.
- When a document is printed in single-color zebra, it can be overlaid with form data even if it varies in the number of colors.
- Overlay printing may not work if the printer driver with which the form has been created has an invalid version or the like. In this case, create a form file with the printer drive to be used for overlay printing.
- [Form File Information] or [Preview] may not be displayed depending on the form file.

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2. Pinpoint Color Matches

Please open an image for color matching in "Paint."



Note

 To read the R/G/B values from a source image that is subject to color matching, such as a logo mark, use an image processing program, such as "Paint," which comes standard with Widows.

Please chose "Eyedropper" tool so that you can capture the color information of subject.

3. Click the image with the [Eyedropper] tool.

ai 🔒) (" =	Untitled - Paint			
	Home	View			
	🔏 Cut 🗎 Copy	Select	/ 心 A	Brushes	\~O□□∆∆ \~O□□∆∆ ↓
Clipbo	oard	Image	Tools		Shapes

After you capture the color, please click "Edit Colors"

<For example, the letter (Twombley Farms) is captured for color match>



R/G/B value can be read as below

色の編集		×
基本色(B):		
作成した色(_):		
	色合い(E): 236	赤(<u>R</u>): 191
	魚羊やかさ(S): 175	緑(<u>G</u>): 30
色の作成(D) >>	色 純色(①) 明るさ(し): 104	春(<u>U</u>): 45
OK キャンセル	色の追加(<u>A</u>)	

Please click "Pinpoint Color Matches" from Utility.

Swiftcolor SCL-4000D Properties	×
General Sharing Ports Advanced Color	Management Security 🛠 Utility
0000 Light Cleaning(C)	Start Status Monitor(M)
Medium Cleaning(D)	Special Settings(E)
Strong Cleaning(F)	Cutter Adjustment(U)
Print Head Position Adjustment(H)	
Output Setting Value(P)	Pinpoint Color Matches(I)
Sleep(S)	Moving The Printer(O)
Sleep Timer Setting(T)	Shipping The Printer(Q)
	Add Custom Paper Type(Z)
ОК	Cancel Apply Help

- "Pinpoint Color Matches" window appears
- After you read the values of R/G/B, please enter the read values into Red (R)/Green (G)/Blue (B) in the sheet.

Pinpoint Color Matches			8 ×						
Register special color. Please set the color value (RGB) in the "Input Color" for the color you want to register as a special color.									
Input Color <u>R</u> ed 246 ▲ <u>G</u> reen 27 ▲ <u>B</u> lue 125 ▲		(
Check Pattern									
Pri <u>n</u> t Gradation 2 💌 Grada	ation Number of Patt	erns 25 Amount of Change No	rmal 🔻 📴						
If there are no desired col can reprint with that color Standard Color 0 -	Reprint If there are no desired colors inside the pattern, by reprinting using the closest color as the basis you can reprint with that color as the basis. Standard Color Select Pattern(1) RG RG Reprint(V) Cancel								
Register Special Color Registered Color(<u>E</u>) 0	▼ C <u>o</u> mment		Regi <u>s</u> ter						
Register <u>L</u> ist									
No. Input Value	Output Value	Comment							
			Check Settings(<u>M</u>)						
			Delete						
		Import	kport Close(Q)						

Please print 25 square color pallets to designate color samples that represent approximate values 0 to 24.

Pinpoint Color Matches	8 ×	0	1	2	3
Register special color.					
Please set the color value (RGB) in the "Input Color" for the color you want to register as a	special color.	R:246 G:27 B:125	R:249 G:27 B:125	R:252 G:27 B:125	R:249 G:30 E
Input Color		4	5	6	7
<u>R</u> ed 246		8246 G30 8125	R:246 G:33 B:125	R:243 G:30 B:125	R243 G27 B
Green 27		8	9	10	11
<u>B</u> lue 125					
		R:240 G:27 B:125	R:243 G:24 B:125	R:246 G:24 B:125	R:246 G:21 B
Check Pattern		12	13	14	15
Print Gradation 2 Cradation Number of Patterns 25 Amount of Change Normal	<u>Print</u>				
Keprint		R:249 G:24 B:125	R:246 G:27 B:128	R:246 G:27 B:131 18	R:249 G:27 E
If there are no desired colors inside the pattern, by reprinting using the closest color a can reprint with that color as the basis.	s the basis you	10			
Standard Color 0 Select Pattern(1) RG Reprint(V)	Cancel	R:249 G:27 B:122 20	R:246 G:27 B:122 21	R:246 G:27 B:119 22	R:243 G:27 E
Register Special Color			R-246 G-30 R-128	8-246 G-24 B-128	
Register Special Color Registered Color(E) 0 Comment		R:243 G:27 B:128 24	R:246 G:30 B:128	R:246 G:24 B:128	
Registered Color(E) 0		R:243 G:27 B:128	R:246 G:30 B:128	R:246 G:24 B:128	
	Register	R:243 G:27 B:128	R:246 G:30 B:128	R:246 G:24 B:128	R:246 G:30 E
Registered Color(E) 0	Register	R:243 G:27 B:128 24	R:246 G:30 B:128	R:246 G:24 B:128	
Registered Color(E) 0 Comment	Register	R:243 G:27 B:128 24	R:246 G:30 B:128	R:246 G:24 B:128	
Registered Color(E) 0 ✓ Comment Register List No. Input Value Output Value Comment	Register	R:243 G:27 B:128 24	R:246 G:30 B:128	R:246 G:24 B:128	
Registered Color(E) 0 ✓ Comment Register List No. Input Value Output Value Comment	Register	R:243 G:27 B:128 24	R:246 G:30 B:128	R:246 G:24 B:128	
Registered Color(E) 0 ✓ Comment Register List No. Input Value Output Value Comment	Register	R:243 G:27 B:128 24	R:246 G:30 B:128	R:246 G:24 B:128	
Registered Color(E) 0 ✓ Comment Register List No. Input Value Output Value Comment	Register	R:243 G:27 B:128 24	R:246 G:30 B:128	R:246 G:24 B:128	

- If the target color is not found, create a color close to it by performing "Reprint".
- Enter the number of the color closest to the target color in "Base Color".

<u>R</u> ed 246	-		
Green 27 🔺			
Blue 125			
Check Pattern		_	
Print Gradation 2 v G	radation Number of Patt	erns 25 <u>A</u> mount of	f Change Normal
Reprint If there are no desired can reprint with that of S <u>t</u> andard Color 0		RG 🔻	the closest color as the basis you Reprint(V) Cancel
Register Special Color	Gammant	GB RB R Expansion	
Registered Color(E)	✓ Comment	G Expansion B Expansion	Regi <u>s</u> ter
Register <u>L</u> ist		1	
No. Input Value	Output Value	Comment	

Select a color pattern in "Pattern Selection".

Select a color pattern by determining which of RGB needs to be enhanced with regard to the target color.

RG Change the values of 2 colors, Red and Green, but not Blue.				
GB	Change the values of 2 colors, Green and Blue, but not Red.			
RB	Change the values of 2 colors, Red and Blue, but not Green.			
R Expansion	Change the values of 3 colors across the board and then increase or decrease the value of Red.			
G Expansion	Change the values of 3 colors across the board and then increase or decrease the value of Green.			
B Expansion	Change the values of 3 colors across the board and then increase or decrease the value of Blue.			

- If the target color is found in the color samples printed, select a number in [Registered Color] among 0 to 24
- Please enter any name in the "Comment" field and click "Register".

Pinpoint Color Matches	? ×
Register special color. Please set the color va 3	ne "Input Color" for the color you want to register as a special color.
Input Color 4 Red 240 5 Green 27 7 8 8	
Blue 125 9 10	
Check Pattern 12 13 13 Print Gradation 14 15 15	r Number of Patterns 25 Amount of Change Normal ▼ Print
Reprint 16 If there are no de 17 can reprint with the 18 19	i side the pattern, by reprinting using the closest color as the basis you t e basis.
Standard Color C 20 21 22	s lect Pattern(1) RG
Register Special Color 23 Registered Color(E) 0	▼ C <u>o</u> mment Regi <u>s</u> ter
Register List	
No. Input Value	Output Value Comment
	Check Settings(<u>M</u>)
	Delete
	Import Export Close(Q)
	TDE Confidential & Proprietary

The registered color will be displayed in the "Register List."

Pinpoint Color Matches	? ×
Register special color. Please set the color value (RGB) in the "Input Color" for the color you want to register as a sp	ecial color.
Input Color Red 240	
Green 27	
Blue 125	
Check Pattern	
Print Gradation 2 Gradation Number of Patterns 25 Amount of Change Normal Reprint	Print
If there are no desired colors inside the pattern, by reprinting using the closest color as t can reprint with that color as the basis.	he basis you
Standard Color 0 Select Pattern(1) RG Reprint(V)	Cancel
Register Special Color	
Registered Color(E) 0 Comment Label-07	Regi <u>s</u> ter
Register List	
No. Input Value Output Value Comment	
1 R:240 G:27 B:125 R:240 G:27 B:125 Label-07	
Che	eck Settings(<u>M</u>)
	<u>D</u> elete
Import Export	Close(Q)

■ To check to see if a color has been registered or not, click "PrintingPreferences"→"Color"→"Set Pinpoint Color Matches" and view "List of registered color".

	Set	Pinp	oint C	olor Matches			
		ist of 1		et Pinpoint Color Mato	hes(<u>C</u>)		
🖶 Swiftcolor SCL-4000D Printing Preferences	ΙΓ		No.	Output Value	Input Value	Comment	
🔺 Page Setup 🖉 Color 🖂 Cutter Settings 🎇 Overlay Settings 💰 Advanced Settings 🛠 Utility		V	1	R:240 G:27 B:125	R:240 G:27 B:125	Label-07	
101.6mm Color Adjustment Adjustment Method No color adjustment							
	ΙL	•			III	,	
40.6mm	-					ок	Cancel
[]Sample_03 Set Print Quality Input resolution 600dpi	-						
Print Image After Changing Settings							
	Set	Pinp	oint C	olor Matches			? ×
1234567 O Sunset O Nostalgia) (\$		et Pinpoint Color Mate	thes(<u>C</u>)		
Current Settings: Current Settings Detailed Settings Defaults	Li	ist of I	registe	red color			
OK Cancel Apply Help			No.	Output Value	Input Value	Comment	
		V	1	R:240 G:27 B:125	R:240 G:27 B:125	Label-07	
		•				,	
		,					

OK

Cancel





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1. Keynotes

- 1. Adjusting color: There are several ways to adjust color using SCC driver setting as below.
 - 1. Change paper type

SCC driver has 5 different paper type as default. By changing the paper type, color profile and Ink jetting amount will be changed as below.



Note: Ink jetting amount for each paper type can be checked at "Add custom paper type" in Printer driver utility tab.

Advanced: "Add custom paper type" - Change ink jetting amount for your own media and improve print result even more. - Refer to P. 5 for description TDE Confidential & Proprietary





1. Keynotes

- 1. Adjusting color: There are several ways to adjust color using SCC driver setting as below.
 - Change Adjustment Method in Color tab SCC driver has 2 adjustment method as default (exclude Use ICM).
 >#1, #2; In total there are 6 color difference as below (right figure).

(素 Swiftcolor SCC-4000D (1 ⊐ピー) 印刷設定	Adjustment Method	Paper Type	Used Color profile	
Page Setup & Color Solor Adjustment 91.0mm Stress	Photo	Matte Coated Paper, Envelop, Inkjet post card	Color profile 1	1
I]Business Card 91.0 X 55.0mm Set Print Input resolution 1200dpi	No color adjustment	Glossy Paper	Color profile 2	2
Print Image After Changing Settings		Plastic card	Color profile 3	3
ABCDEF ABCDEF 1234567 Ourrent Settings: Set Eincold Color Matcher(P) Detailed Settings		Matte Coated Paper, Envelop, Inkjet post card	Color profile 1	4
Default Settings OK キャンセル 適用(A) ヘルプ		Glossy Paper	Color profile 2	5
		Plastic card	Color profile 3	6
	Use ICM	Above color profile of CFT	driver will be invalid	ł

Advanced: In case using your own ICM refer to p.9 and select Use ICM.





1. Keynotes

- 1. Adjusting color: There are several ways to adjust color using SCC driver setting as below.
 - 3. Detailed Settings function

By changing Detailed Setting the entire print image will be influenced >> Suitable for adjusting photo or whole design image color.

Color shift image by adjusting each setting is shown in the next page.

**In case you want to adjust particular color only, use Pin point color matches. >> Suitable for adjusting Company logo color etc.

Detailed Settings		? ×
Print Image After Changing Settings	Color Balan Qyan Magenta Yellow Blac <u>k</u> Brightness Density	
	Contrast	
	Half-tone F	rocess
Sharpness	00000 00000	O Dither () Dither
0 (None)		De faults(<u>D</u>)
		OK Cancel Help





1. Keynotes

- 2. Print head position and media ejection lever position difference
 - 1. Print head position and media ejection lever position differs according
 - to the selected "Paper Type" and "Paper Form".

₩ Swiftcolor SCC-40000 (1 ⊐ ビ−) 印刷波を	ed raper type and raper torm t				
Prer Snie Zusze / Cowie Sinnee Z. Aburood Sinnee (), Ubliny	Driver S	Driver Setting		Printer Setting	
Hinn Dechts Cedut Setting -	Paper Type	Paper Form	Print head position	Thick paper transport lever	
Proce Spec		Paper	А		
Liburiness Card 911 X (Siltin ()) Four Terr()	Matte Coated Paper	Thick Paper	В		
County County	Matte Coated Faper	Envelope	E		
On tation Partial Control Office Partial		Card(20-30mil)	D	1	
		Paper	E		
Custom Paper Size Settings	Envelope	Thick Paper			
Defail Strings Display Units Display Units @ mm8g/		Envelope			
0K # 0 Business Ourd U. 89.061.0 0 Ourd OR80 Pape. 85.554.0 Lencth⊕ 550 ☆ mm (49.0 " 300.0) Paper (mill) Paper		Card(20-30mil)			
Occi (DH0 Pist., 1554-0 Occi (D=2 105,105 0, 24 0) Occi (D=2 105,105 0, 24 0) Occi (D=2 105,10 0, 25 0) II		Paper	Α		
Ourd 4.0 X 5.0inch 101 5xt 52.4	Glossy Paper	Thick Paper	В		
Oud 425 X 25in_108.0x435 Oud 35 X 25inch 89.9x535	20 📩 mm	Envelope	E		
	Mercie®)	Card(20-30mil)	D	1	
Envelope No10 104 Int41 3 Onvelope No10 104 Int41 3 Onvelope Oot114114.004 910 (]Business Card 91.0 X 55 0mm		Paper	A		
Delate	Resiter Inkjet postcard	Thick Paper			
OK Om		Envelope			
		Card(20-30mil)			
		Paper	С	1	
	Plastic card	Thick Paper	В		
Noto:		Envelope	E		
Note:		Card(20-30mil)	С	1	

Print head position: A----> E (print head position gets higher; Media Thin ----> Thick). May cause paper jam in case proper setting is not selected.

Thick paper transport lever (UG p.23): Pull out (1) for using Plastic and Card (20-30mil) media.* Caution: Lever should be at the normal position when "Plastic card" is selected and media length is longer than 65mm. Error occurs "Thick feed lever position and "depending on the selected paper type and form.





1. Keynotes

Utilize!: Combination with Keynote #1 and #2

*Please be aware of Keynote #1 and #2 when adding your own custom paper size.

- *If you desire to use Color profile1 with plastic card media, select "Matte coated paper" and "Card(20-30mil).
- *If you desire to use Color profile 3 (plastic card) for either normal matte or glossy media , select "Plastic card" and "Thick Paper".

		Driver Setting		Printer Setting	
Used	Paper Type	Paper Type	Paper Form	Print head position	Media ejection lever
			Paper	A	
Color		Matte Coated Paper	Thick Paper	В	
profile			Envelope	E	
profile			Card(20-30mil)	D	1
			Paper		
Color	Matte Coated	Envelope	Thick Paper	E	
profile 1	Deper	Envelope	Envelope		
profile 1	Paper		Card(20-30mil)		
	Envelop		Paper	A	
		Classy Banar	Thick Paper	В	
	Inkjet post card	Glossy Paper	Envelope	E	
	, ,		Card(20-30mil)	D	1
Color	Color Glossy Paper		Paper		
		Indication and a set	Thick Paper		
profile 2	Inkjet postcard	Envelope	A		
1			Card(20-30mil)		
Color Plastic card	Diantia anni	Paper	С	1	
		Thick Paper	В		
profile 3	profile 3	Plastic card	Envelope	E	
	-	DE Confidential & Proprietary	Card(20-30mil)	С	1





1. Keynotes

- 4. Registered paper form for each default paper size
 - 1. Can be checked in custom paper size dialog
 - Choose desired paper type and check Paper Form







1. Keynotes

- 5. To print plastic card
 - 1. Follow the direction in UG p.24-
 - Caution: Press Pause after changing Feeder tray lever position(UG p.25). If not, even you send the data, the printer do not start printing. Below Error state will be shown in the PC.







- 2. ICM profile (Color reproducibility)
 - 1. Delete ICM file; SCC-4000D
 - Please delete the dummy file before use.

Open Device and Printer>Select Swiftcolor SCC-4000D> Click Printer Property>

- 1. Select Color Management tab>2. Open Color Management>
- 3. Check Use your own setting with this Device> 4. Select Profile (Manual)> 5. Delete CG440CC

	■ 色の管理		■ 色の管理	×
Switcolor Sec-10000 (1 SE	デバイス すべてのプロファイル 詳細設定		デバイス すべてのプロファイル 詳細設定	
全般 共有 ポート 詳細設定 色の管理 セキュリティ 🛠 Utility			デバイス(D): デバイス(D):	-
色の管理の設定を調整するには、「色の管理」をクリックしてください。	デバイス(D): ブリンター: Swiftcolor SCC-4000D (1 コと	·	3. ① ごデバイスに自分の設定を使	
●の管理(M)	Z. このデバイスに自分の設定を使用する(U)	モニターの識別(工)		±195(Ω) ±−9−0,486,93(1)
	プロファイルの選択(P): 自動(推奨)		プロファイルの選択(P): 4.	•
	このデバイスに関連付けられたプロファイル(E):		このデバイスに関連付けられたプロファイル(<u>E</u>):	
	名前	ファイル名	名前	ファイル名
	ICC プロファイル		ICC プロファイル. ICG440CC (既定) 5.	SCD40CM.ICM
	CG440CC	SCD40CM.ICM		Sconocinizen
	追加(<u>A</u>) 削除(<u>R</u>)	既定のプロファイルに設定(S)	追加(A) 削除(B)	既定のプロファイルに設定(S)
	色の管理の設定の詳細を表示します	プロファイル(Q)	色の管理の設定の詳細を表示します	לם <i>דירוע(<u>ס</u>)</i>
OK キャンセル 適用(A) ヘルプ		<u>開いる</u>		開じる

Note:

- Please check above points when there is an inquiry for color reproducibility
- If you want to use your own ICM profile, please add your own ICM profile to above printer property and select Use ICM at printer driver.
- Cautions: Depending on applications, some applications validate ICM profile as default setting (ignores driver setting). > Refer to Application "Supplements"





3. Utility functions difference

- 1. Printer Driver Utility; Maintenance function for operator
- 2. Printer Property Utility tab; Adjustment functions for administrator
- 1. Printer Driver Utility



2. Printer Property Utility tab



Cautions for changing driver setting:

- 1. Settings changed via Printer Driver Utility tab which is opened from applications will not be saved. It is valid only within the active application.
- 2. By setting via Printer property Utility tab, printer driver remembers the setting. Thus, changed setting will be reflected to all data in the same PC.





4. Remarks – to be fixed

 Default paper name missing in applications: SCC driver default paper name may not appear properly when selecting paper size from the application side.
 *Add Screen shot: Ex. photo viewer

 \rightarrow Occurs when paper name is longer than 32 words

2. Custom paper setting: Inch setting cannot be used when registering custom media size

 \rightarrow Only "mm" is valid for use to register media as custom paper setting. [Tentative counter measure]

Please convert into "mm" and register.





4. Remarks – to be fixed

3. Applications: When particular Applications and Office applications are used, when printing media whose width is longer than the length, printed image may be defected.

 \rightarrow Some of Microsoft Office applications defines that the media is always vertically long. However, SCC-4000D has horizontally long media (i.e. business card). In case, when it receives horizontally long media, it automatically convert the data as horizontally long data and print, resulting in image defect.

Example:

Sent data: image is intended to print as below.



Printed image: image is printed as if the media is vertically long.



Office; Power point, word 2010, 2013 and Other application which follows office media definition such as Card Exchange etc.





For Telephone operator

- 1. What is difference of INKJET and Thermal Ribbon. (Advantage)
- 2. Overview of Swiftcolor product
- 3. General Q&A
- 4. Recommend Application
- 5. Price (List Price/Per Print Cost)
- 6. Durability (Machine/Media)
- 7. Maintenance
- 8. Setup
- 9. How to proceed shipping mode
- 10. How to use driver functions
 - 1. Overlay Printing
 - 2. Pinpoint color print
 - 3. Supplements
 - 4. Color matching

How to match color by Swift Color Printer

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• Be sure to use "RGB value" (not CMYK value) when you change the color.

(If using CMYK value, narrow color gamut may be narrow than original one compared with using RGB value(It depends on software that you are using).

- Be sure to use same media which are used practically for color matching.
- Be sure to settled driver setting (color adjustment mode, paper type).
- There is no automatic system or settled setting corresponding color guide (ex. PANTONE). You need to find approximated color manually.
- Please kindly switch off "color management" when print a data by illustrator or photoshop directly.

①Print color chart by using same media and same driver setting

⇒Media and driver setting should be used same ones of practical use. If not, print result will be different.

②Find and pick up similar color patch among the color chart.

 \Rightarrow Pick up several (if needed).

③Set the RGB value that you picked up and print it. Compare the color between it and Color reference (ex. PANTONE).

⇒The color will be changing soon after printing and printing after a few minutes. Shake media a little after printing and wait a minute. After that, compare with both 2 colors.

④Adjust the color by changing RGB value from 3 ~15 points with reference of changing trend of color chart.

Adjust by trial and error with reference to "points of RGB value setting"

⑤Print it again with adjusted RGB value, and compare with color reference.

• Fixed (or return and repeat $@\sim5$ steps if the color is still different)

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Point of RGB value setting (1)

• Even you change RGB value at same rate, color won't change at same rate. Some color gamut changes sensitively with a few change rate, but another is not. Knowing point below helps you to do color matching smoothly.

[the case: 3 RGB values is near with each other]

In the case of RGB values is near each other(Ex. gray), the color will change significantly with a few change. Adjust RGB value bit by bit (ex. each by 3 or 4).



[Turning point of color changing]

Green \Rightarrow Blue, red \Rightarrow pink, red \Rightarrow orange, on the turning point of color, a few change makes a big difference. Adjust RGB value carefully (ex. each by 6 or 7).



 \Rightarrow Pinpoint color matches(driver's function) will help your task.

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[Adjust only contrasting density with keeping same color balance] \Rightarrow Change each RGB values with same amount of number.



[In some color gamut, need to change RGB value a lot to get different color]

 \Rightarrow In the case that only 1 value is higher than other 2 value, the degree of color change is not remarkable. Change RGB value a lot (ex. 15 point) to adjust color.



Pinpoint color matches(driver's utility function)

Pinpoint color matching is a useful function in the driver's utility. (Property >utility>pinpoint color matches)

To use this function, it's easy to make efficiently-revised color pattern.

Pinpoint Color Matches Register pinpoint color matches. Please set the color value (RGB) in the [Input Color] which matches the pinpoint colors. Input Color Red 120 Green 120 Input 2	①Select Print Gradation②Select Amount of change (Large, Normal, Small)
Check Pattern Print Gradation 2 Gradation Number of 25 Amount for Print Reprint If there are no desired colors inside the pattern, by reprinting using the closest color as the basis you can reprint with that color as the basis. Standard Color 0 Select Pattern(1) RG Reprint(V) Gancel Pinpoint Color Matches Registration Registered Color(E) 0 Comment Register Register List	Automatically make color pattern below Print Image: Color pattern below 0 1 2 3 R:120 G:120 B:120 R:125 G:120 B:120 R:130 G:120 B:120 R:125 G:125 B:120 6 7 R:120 G:125 B:120 R:120 G:130 B:120 R:115 G:125 B:120 R:115 G:120 B:120 7 R:120 G:125 B:120 R:120 G:130 B:120 R:115 G:125 B:120 R:115 G:120 B:120 R:120 B:120 R:115 G:120 B:120 R:120
No. Input Value Output Value Comment	R:110 G:120 B:120 R:115 G:115 B:120 R:120 G:115 B:120 R:120 G:110 B:120 12 13 14 15 R:125 G:115 B:120 R:120 G:120 B:125 R:120 G:120 B:130 R:125 G:120 B:125 16 17 18 19 R:125 G:120 B:115 R:120 G:120 B:115 R:120 G:120 B:115 R:120 G:120 B:115 20 21 22 23 R:115 G:120 B:125 R:120 G:125 B:125 R:120 G:115 B:125 R:120 G:115 B:125 R:120 G:115 B:115 R:120 G:125 B:125 R:120 G:115 B:125 R:120 G:115 B:125

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Pinpoint color matches(driver's utility function)

Color chart (image)

A image of color chart



1

Second part

1

Image: Make characters and Barcode with the personalized software, layout software which deal with the print drawing data, and then, print.

=Print characters and barcode with Vector(Drawing)

image. (Image Create SE, bartender, nice label, etc..)

(*reference1)

In nu bit mar use 02 Modify a bit map image(JPEG etc.) into proper image for a inkjet printerence2)

- 1. Modify an anti-aliasing part (Make 2 value)
- 2. Modify Black part value.
- 3. Modify blank(white) part
- 4. Raise resolution.

-Example creating data made with layout software.

It prefer for characters and barcode to be output from software dealing with vector data. =Output characters and barcode with Image Create SE, bartender, nice label, etc.

Delete small characters,

barcode with Photoshop

[Ex]Creating demo data for Cartes



(Before)



After delete the characters and barcode, put this image on nice label and then, add characters and barcode on this.

Riverside Medical Center

Total Being Health Care

1154 4 70

Susan T. Sample, M.D.

(After)

Maturnity Center

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-Modifying bit map image

1. Modify anti-aliasing part (Make 2 value)

anti-aliasing_····this is function to change color gradually for integrating outline of stuf with background.



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-Modifying bit map image

2. Modify black value

Even if look like black, RGB value is sometimes not 0, and then, it sometimes print black in CMY, and it may happen for printer not to express sophisticated level of itself. In this case, modify RGB into 0.

3. Modify blank (white)

In spite of that Sub spitting mode is OFF, the dust is on the blank part,] in this case, RGB is likely not to be(255, 255, 255) even if it seems like white. In so, modify RGB of white blank into 255.

4. Raise resolution

If resolution is low, edge may be not printed clearly. In this case, change image to high resolution one.

(*reference about 3 resolution)









Point of Color Adjustment, Creating Image and Modification

(CMYK image and RGB image)

As of now, a lot of image are created under the CMYK color gamut setting. The data created under the setting of CMYK color gamut is set by more narrow range than RGB.

So, printer which color gamut is based on RGB, may do not use full gamut. Please understand the difference between CMYK image and RGB image and modify efficiently.



There is gap between gamut create by print(CMYK) and gamut by monitor(RGB). For making the both near, it is limited to be covert within RGB range when change CMYK into RGB.

In the case of the on-demand printer handling color data with digital through PC, if you do color set in CMYK same as intaglio printing, it's forced to covert into RGB during work. As a result, it comes data without using gamut itself fully.

Point of Color Adjustment, Creating Image and Modification

(CMYK image and RGB image)

example for converting CMYK image into RGB





(CMYK image and RGB image)



•When creating new data, or in the ease case to reset with EPS, AI data etc., do color setting in RGB again.

•As for modifying bit map, revise color considering convert from CMYK into RGB.

(in the case of out sourcing sample)

- •Create data after setting color mode as RGB necessary.
- •When appoint black character and black only, set RGB = 0.
- •Avoid the method to convert into RGB after setting by CMYK.
- •Anti-aliasing should be OFF(Without check)(Illustrator)
- •When editing resolution by Photoshop, select the nearest neighbor.

Reference 1 What is the vector(drawing) image.

data image of vector





%PDF-1.4 % 1 0 obj<</Pages 2 0 R/Type/Catalog/Metadata 4416 0 R>> endobi 2 0 obj<</Count 1/Kids[6 0 R]/Type/Pages>> endobi 3 0 obj<</ModDate(D:20041221173350+09'00')/CreationDate(D: 20041220100303+09'00')/Title(sonnyelicson 9)/ Creator(Illustrator)/Producer(Adobe PDF library 6.66)>> endobi 50 obj null endobi 6 0 obj<</Contents 4406 0 R/Type/Page/Parent 2 0 R/Thumb 4415 0 R/MediaBox[0.0 0.0 595.27557 841.88977]/BleedBox[0.0 0.0 595.27557 841.88977]/TrimBox[0.0 0.0 595.27557 841.88977]/ArtBox[266.58008 415.68066 333.17969

図形の位置や形状、色などがコード化(数値化)されて記録される。記述はテキストベースのコーディングなのでビットマップ画像よりも基本的にファイル容量が軽くてすむ。llustratorで作った図形をエディタなどで開くと、膨大なテキストデータとなる。

It has image data as formula and it appears the image every time in accordance with environment. That's why it is easy to expand and change the format.

When printing, it can output various resolution and revise barcode in accordance with printer.

It can make printer function maximum like print sophisticated and subtle characters and barcode.

Reference 2 What is bit map image

• bit map image



It regards image as pixel of dot matrix and deal with them as line information of color / density value of pixel based on RGB.

It has fixed data as pixel mass.

It is not easy to modify form. If expanding the image, it become rough image because the number of pixel is not different.

In need to create or modify data following printer features.

Proper resolution

Resolution of print head is 1200dpi.

If setting 1200dpi, image is very good but data is very heavy.

Print by 600dpi is still good and we recommend 600dpi.

Point to draw logo

When pointing resolution by JPEG with illustrator and drawing, you must set the size to template on where you put on, and draw with appointed resolution.

If you convert on the part where you put on it, the resolution is changed itself.

Ink cost calculation



Create file for use with Ink cost calculation tool

- 1. Left click Printer Swiftcolor at Device and Printer menu
- 2. Right click and port from USB to FILE (Print to file)

3. Select picture and print, Dialog box "Output file name" will Appeared and input file name. Any name can be used but file type name must be ".prn". Also if you specify file pass before file name, file will be created at the specified place. For example:







kg> KANEMATS

Ink COST CALCULATION

Open program Ink cost calculation tool

- Setting printer type to card printer
- Choose XXX.prn (that create in last step)
- Input ink cost and print per job (More print / job is lower cost)
- Click Cost Calculation \rightarrow You will know estimate cost

a I	nkCostCalculator									- - X
Set	ting Version									
	- Input Parameter -									
	Print File Path :	C:\Users\waray	u\De	sktop\warayu.pr	n					
	Label / Job :	100 label	1	1 job			Ink C	CRG Co	st:\$ 130	2
Total Print Count / Day : 100 label										
	Cost Calculation Re	esult		Cost	Calculation(C)				
		Ink amount					Cost		Printhead lif	fe
	Black :	0.00223	ml	44784	Label printable	[\$0.00290	[968992	Label
	Cyan :	0.00216	ml	46251	Label printable	[\$0.00281	[1201923	Label
	Magenta :	0.00190	ml	52636	Label printable		\$ 0.00247	[1106194	Label
	Yellow :	0.00141	ml	70833	Label printable	[\$ 0.00184	[1388888	Label
					Total Co	st :	\$0.01002			
		Ma	ainter	ance cartridge e	xchange timir	ng:	-	day		
										Close(X)



SCC-4000D_Medie Hole condition



- Printer serial number:
 - Printer serial number
 - Firmware version
 - Printer log data (both .txt and .bin files) \rightarrow Please get log data soon after the trouble occurred.
 - Situation detail: How it was occurred (trigger of the trouble), How it was handled, Result after any actions.

How to get printer log:

	Printer Information Send the	Printhead Information	Cleaning Stings	Test Print/Adjustment Troubleshooting
[1]	Acquisitor of the council of the cou		er, save the printer stor	ed data to a file.
[2]	History	3] Initialization of the netwo	ork setting	
			Parts Replacement	k Loading
		[5]	1000	Replacement
			Print Mod	fule Replacement
				ter Replacement
_	liky Version			Printer Status Close

SCC-2000D Service Utility

SCC-4000D Service Utility

Printer Information	Head Information	Cleaning	Test Print/Adjustment
Send the upda	Informe	Parts Replacement	Troubleshooting
] Report to the			
As a refe		er, save the printer stored	data io a file.
Confirm di cooro die ale			
Select a File	Flead		
No select.			
In case "Repeived inco	nect result" message appea	rs, part of data normally re-	perved can be saved.
21			
2] Ink Loading	41 5506		
	Ink Los	ading	
3] Position Change			
Move the selected parts	In the openitied position		
		and the second	and a second second
Head Cleaning	Position Head Insta	IPosition Purge Ur	it Install Position
Utility Version			inter Status Dios

(SCC-4000D Service Manual 9-11)

In addition to above, detail information for each phenomena written in the following pages is helpful.

- 1. In case of image failure
 - Actual failure image, and how it is defective
 - •Actual printed samples, printed nozzle check pattern, defective location.
 - •Paper type and size

•When it was occurred. (after powered on, it appeared while printing, after auto cleaning was performed, after paper jammed, etc)

- •Failure frequency
- •How it was changed after performing manual cleanings (light/medium/strong)

•Please note on the print sample when it was printed (after printing XX pages, after strong cleaning 2times, etc)

•Any other actions and its result (reinstalling print head, etc)

How to print Nozzle Check pattern:

Send the	update file	Setting	Troubleshooting
Printer Informati	on Printhead	Information	Test Print/Adjustment
1] Papersetting			position adjustment
Standard size	Business Card 🔫	Nozzle Check patiem	Head position adjustment/
Paper width	55.0 4 k mm	plantin	Paper Side-registration Adjustment
Paper length	91.0 * * mm	Setting Parametere	[3] Other setting
Copies	1 4 5		Vertical Scale Adjustment
Gap length	mm + + 0.0	No Print Pattern	Vertical Scale Adjustment
TOF mark length	mm (1) 0.0	Pattern	
Left margin	2.0 * * mm	Full Print Black	Print Module Setup
Right margin	2.0 + mm		Print Module Secup
Left gap	0.0 + + mm	Full Print	
Right gap	mm 4 1 0.0	Cyan	Top margin (TK-GAP) transmission -0.2 () mm
Feed speed	50h:Automatic S 💌	Full Print	reflection 0.0 ++ mm
Paper form	Paper 💌	Magenta	
Cut interval	0 4 >	Full Print Yellow	Leit margin 0.0 + + mm
Auto cutter	® ON ⊜ OFF	Telow	Paper stop/cut position 0.0 • mm
			Read from Printer Send and save to Printe

(SCC-2000D Service Manual 9-7)



(SCC-4000D Service Manual 5-61)

SCC-4000D Service Utility

- 2. In case of paper jam
 - •Whether it is modified to handle plastic card or not. (SCC-4000D)
 - If the paper lever is set to correct position
 - •Error code (check with Service Utility)
 - •Paper type and size
 - •How it was jammed? (skewed and stopped on the transport belt, or stuck at a certain position. (photo if any)
 - •In case it stopped in the middle of printing, image sample where it jammed (Exact jammed page).
 - Failure frequency
 - •In case with SCC-2000D, if the media guide is set to correct position.

How to confirm the position of Paper Lever:

SCC-2000D

SCC-2000D User's Guide P.13



 Set the lever to the appropriate position according to the paper to be printed on.
Plastic card or Extra thick paper:
Set it to [Plastic Card/Extra Thick Paper]
Paper other than above:
Set it to [Paper]

SCC-4000D



SCC-4000D User's Guide P.23

How to confirm the Error Code:

SCC-2000D Service Utility

listory		[2	2] Save the	e history in a fil	e
Cod	Error	Date and time o	Total Prin	Message	
E-36-0f E-36-0f E-36-0f E-36-0f	Black ink tank abnormality #3601 Cyan ink tank abnormality #3 Magenta ink tank abnormality Yellow ink tank abnormality #3	14/09/19 00:37 14/09/19 00:37	163720 163720	Operator Operator Operator	E

(SCC-2000D Service Manual 9-12)

SCC-4000D Service Utility

Printer Infi Send Ib	tion Head Infor		Test Print/Adjustment Traubleshooting
Histo	[2] Save the history in a file [3) User sottings
Code	Enor	Date and time of 0 +	Ink pre-fine Auto
E-28-01 E-2e-01	Black ink tank type error.	13/01/29/01:41:49 13/01/29/01:41:49	and the second se
E-2e-0f	Cyan ink tank type enor. Magenta ink tank type error.	13/01/29 01:41:49	
E-2+0	Yellow ink tank twoe enci.	13/01/29 01:41:49	1200 - 120 - 120 - 1
E-1301	Paper jan encr.	13/01/23/04:57:13	Financial Faper Mode
E-2e-0	Black ink tank type error.	13/01/23 03:94:14	
E-2e-0f	Cuan ink tank type enor.	13/01/23 03:04:14	
E-26-0F	Maponta ink tank type error.	13/01/23 03:04:14	
E-2+0	Yellow ink tank type ency.	13/01/23/03-04:14	
F-0d-01	Falal error #0D07	13/01/23 02:29:29	120
F-0d-01	Fatal error #0D01	13/01/23 02:00:17	Stain Reduction
F-06-01	Fatal error #0D01	13/01/23 01:59:51	C Mode 1 @ Mode 2
E-Ze-OF	Black ink tank type enor.	13/01/21 00:36:43	S Model - Modela
E-26-0F	Cyan ink tank type enor.	13/01/21 00:36:43	
E-2e-0f	Magenta ink tank type error.	13/01/21 00:38:43	
E-2e-0f	Yellow ink tank type error.	13/01/21 00:36:43	
E-13-01	Paper jan enci.	13/01/19 01:31:32	
E-13-01	Paper jan enci.	13/01/19/01:30:58	
E-2e-0	Black ink tank type error.	13/01/19/01:21:44	
E-2e-0f	Cyan ink tank type enor	13/01/19 01:21:44	
E-2e-0f E-2e-0f	Magenta ink tank type error.	13/01/19 01:21:44 13/01/19 01:21:44	
E-28-0	Yellow ink tank type end: Black ink tank type entr		
E-2e-0f	Cyan ink tank type enor.	13/01/17/07:39:47 13/01/17/07:39:47	
E-2e-0f	Magenta ink tank type end.	13/01/17 07:39:47 +	
1	the period of the second		
		Read from the printer	Load and save to the printer
tiity Version	1		Printer Statue Clove

- 3. In case of printer driver malfunction
 - •Problem detail
 - •Printer Driver version
 - Application software and its version
 - •Printer driver setting file
 - •Setting from printer driver, or setting from application software

how to export driver setting:

SCC-2000D Service Utility



(SCC-2000D User's Guide P.122)

- 4. In case other than above
 - Error code
 - Problem detail

SCC-4000D Service Utility



(SCC-4000D User's Guide P.162)

How to utilize print head: SwiftColor sample image design

2015/1/19 Canon Finetech Inc.

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Canon Finetech Inc.

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Media feeding direction

Media moves under the fixed head at a constant speed and images are created.

"Line head"

Media moves bit by bit for printing image, while head moves from right to left and images are created. **"Serial head"**

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Canon Finetech Inc.






































 High quality image Fast print speed achieved by multi nass system achieved by one pass system • Discha · Less moving part s system compa d printer · Lower due to 1A2B **swift**color **VIP** Pass Name Marry Ellen Pass No. 1A2B 152 NFIDENTIAL Canon Finetech Inc.

 High quality image Fast print speed achieved by multi pass system achieved by one pass system · Discharge more ink · Less moving part compared with one nees system d printer · Lower due to 1A2B swiftcolor **VIP Pass** Name Marry Ellen Pass No. 1A2B 153 NFIDENTIAL Canon Finetech Inc.

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Line head Printer



Line head Printer



Line head Printer



Line head Printer



Line head Printer



Line head Printer



Line head Printer



Line head Printer



Line head Printer



Line head Printer



Line head Printer



Line head Printer



Key to Design image suitable for SCC printer

SCC-2000D / Extend Print-head Life cycle (Intermittent printing)



Considering 2inch printer mechanism, above design sample doesn't influence the head life significantly since there are not many parallel lines to media feeding direction. Before improvement : **350,000 cards** \rightarrow After improvement : **400,000 cards**

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Key to Design image suitable for SCC printer

SCC-4000D / Print-head Life cycle (Intermittent printing)



Appendix. Swift design image sample ; Sample image which is suitable for Swiftcolor printer mechanism

Point!

Light color gradation

Use no lines, no frame borders



Digital Inkjet Color Printer



Name Marry Ellen Pass No. 1A2B



SCC-4000D: Intermittent printing 300,000 cards SCC-2000D: Intermittent printing 360,000 cards Continuous printing 400,000 cards

In addition: There aren't significant difference in head life between models with above image.

>> In case calculating and comparing both 2" and 4" head life, image which does not result in significant difference between models are more suitable.

Appendix. Continuous printing / Intermittent printing Features of each model(4inch/2inch)

2inch Printer:

Head life is affected less by intermittent printing achieved by improved cleaning sequence

4inch Printer:

In case of intermittent printing, large amount of ink is consumed for cleaning before printing, this sequence is more suitable for continuous printing or larger volum printing, but it would consume print head as well.

2" and 4" printer mechanism/ sequence differs depending on each printers target market.

Product Concept/ Target

- For large volume continuous printing SCC-4000D
- For low volume intermittent printing SCC-2000D