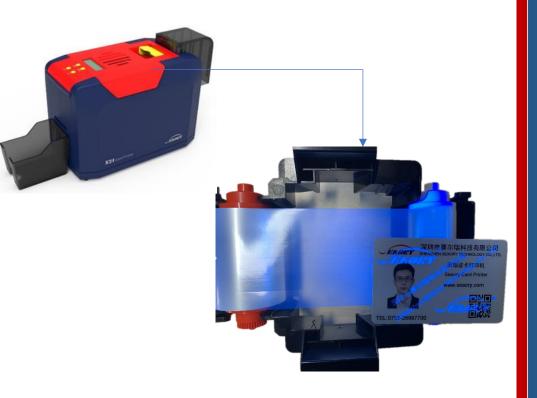


# 2018

UV Ultraviolet Security Printing Application Technology

## **Operation Instruction**



Shenzhen Seaory Technology Co., Ltd.

Excellent quality Perfect service



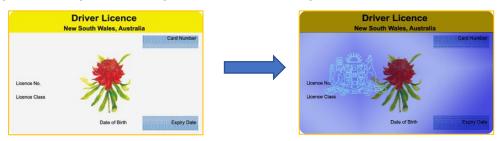
## Catalog

1.	Overview of UV security Printing Technology	1
2.	Brief Description of Seaory UV Security Ribbons	2
	2.1 Characters	2
	2.2 Main Parameters	2
3.	Seaory S series Full-panel YMCKO Ribbon Brief Introduction	3
	3.1 Characters	3
	3.1 Main Parameters	3
4.	Preparation before usage and consumables option	4
	4.1 Recommend card printer model	4
	4.2 Consumables Option	4
	4.3 Seaory UV Security Ribbons	6
5. H	lardware installation instruction	8
	5.1 Preparation before installation	8
	5.2 Card Printing	8
	5.3 Hardware installation	9
6. F	Printing test	. 11
	6.1 Card feeding mouth and eject mouth setting	. 11
	6.2 Printing test	. 13



#### **1.** Overview of UV security Printing Technology

UV security printing is widely used to enhance the protection and color of your card . Add fluorescent images or texts in a specific color of your choice to enable easy verification and additional security to your card. It has high clarity, obvious color changing effect, strong glossiness, good scraping resistance and saving ribbon etc characters.



By using Seaory S series card printers to realize the production of full-page color UV card printing. Say goodbye to the cumbersome bulk printing of large printing presses. As shown in the figure, it is recommended to implement Seaory S21+ Seaory S20 combined splicing scheme.



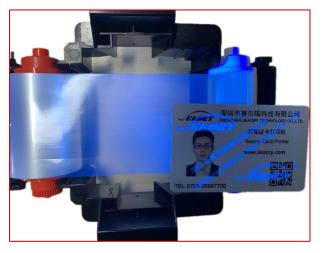
The photo effect under UV irradiation is very poor,but the actual printing quality is much better than shown above. Please feel free to choose.



2. Brief Description of Seaory UV Security Ribbons

#### 2.1 Characters

- UV Anti-fake ribbon
- High resolution printing effect
- Discoloration effect is obvious under the purple lamp
- High speed printing and carbon tape saving
- High gloss and high density
- Scratch resistance is superior



### 2.2 Main Parameters

Item	Parameters	Note
Anti-counterfeit effect	Fluorescent blue	
Suitable for	Seaory S20、S21、S22、S22K	
Number of prints per roll	1 Up to 1000	ISO CR80
size	100m×60mm	
Compatible cards	PVC or composite cards	
Come with accessories	1PC Cleaning roller and 1PC cleaning card	Card printer consumables
Part Number	耗材 00000342	
G.W	150g	
Packing size	96mmX62mmX105mm	

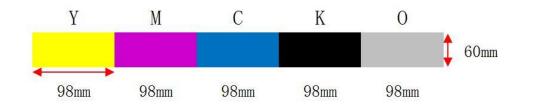


3

#### 3. Seaory S series Full-panel YMCKO Ribbon Brief Introduction

#### 3.1 Characters

- High resolution printing effect
- O panel clear protective overlay adopt transparent material for UV security printing
- High gloss and high density
- Scratch resistance is superior



#### 3.1 Main Parameters

Item	Parameters	Note
Suitable for	Seaory S20、S21、S22、S22K	
Number of prints per roll	Up to 300	ISO CR80
Compatible cards	PVC or composite cards	
Come with	1PC Cleaning roller and 1PC cleaning card	Card printer consumables
Part Number	耗材 00000329	
G.W	200g	
Packing size	96mmX62mmX105mm	



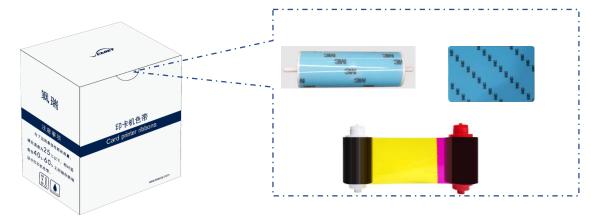
## 4. Preparation before usage and consumables option

Seaory S21	Seaory S20
Desktop Single-sided Card Printer	Desktop Single-card Card Printer

#### 4.1 Recommend card printer model

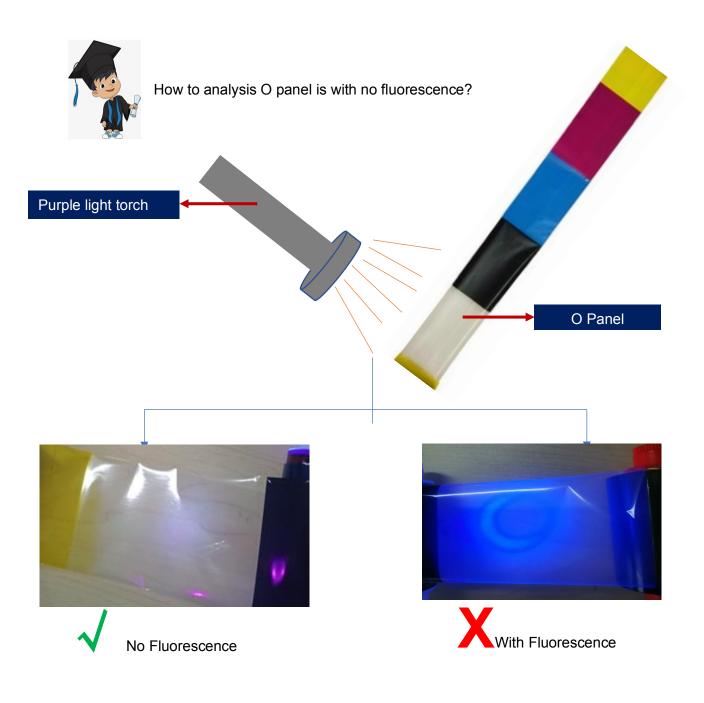
#### 4.2 Consumables Option

(1) 、Seaory S series Full-panel YMCKO Ribbon(O panel with No fluorescence)



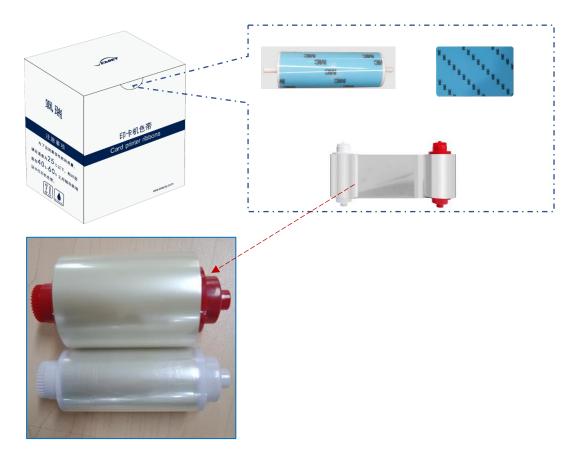
O panel within the full-panel YMCKO Ribbon must with no fluorescence.







### 4.3 Seaory UV Security Ribbons



(2) Blank Card

To get the best UV card printing effect, the printing blank card material must be:

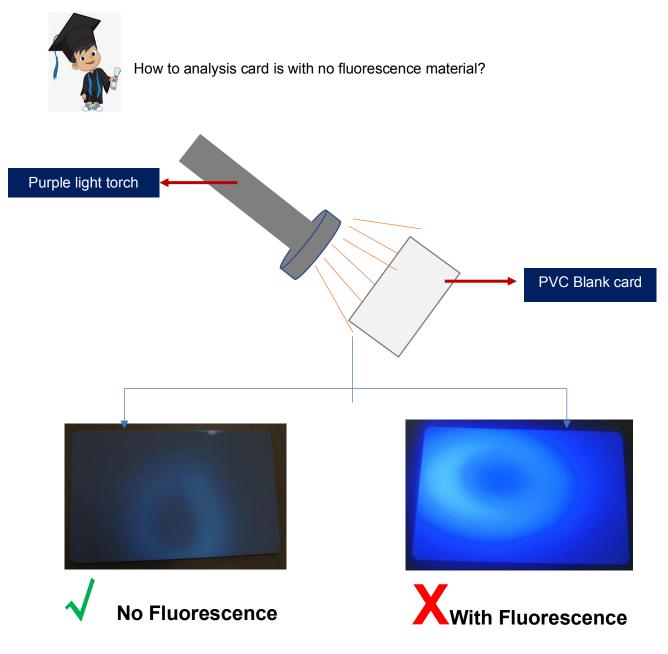
PVC or composite cards

With no fluorescence material



If the card is with fluorescence, the UV card printing effect will be very poor.







## 5. Hardware installation instruction

#### 5.1 Preparation before installation

The following is for the overall layout of the Seaory UV printing solution only. More details about Seaory card printer's hardware and software, please refer to "Specification" and "Quick user guide" within CD in accessory box.

Yon can also download above all related document on official website :www.seaory.com

	ERORY Card Printer	Home	About us 👻	Product -	Consumables	News	Solution	Servic
	-					-	-	F
	SEAORY S	22 Card	l Printer Ca	talogue $\downarrow$				
Description	SEAORY SZ	22 Card	l Printer Qu	ick User G	uide $\underline{\downarrow}$			
Specifications	SEAORY S	22 Card	I Printer Us	er Manual	$\overline{\uparrow}$			
Image	•							

#### **5.2 Card Printing**

Firstly, S21 card printer is used to print the cards in YMCKO color printing, and then S20 card printer is used to print the cards in combination with UV printing technology. This can be controlled through the printing program.





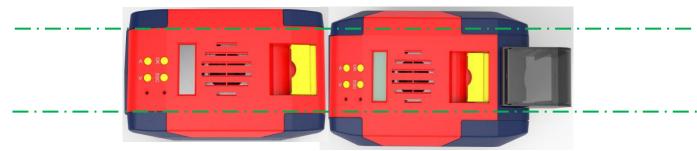
#### 5.3 Hardware installation

#### (1) Splice installation requirements

As shown in the figure below: Put the S21 and S20 card printer on the desktop, parallel and spaced between 10mm-20mm



The two printer covers must be aligned parallel as below picture.

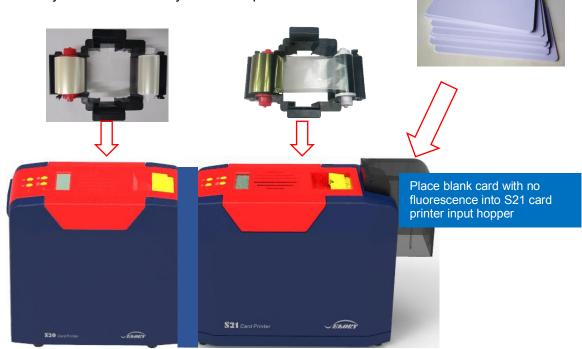


You can study more details about Seaory S series card printers in "Specification" and "Quick user guide".



#### (3) 、 Consumables installation

Install the Full-panel YMCKO ribbon into Seaory S21 Card printer. Install uv security ribbon into Seaory S20 Card printer.





## 6. Printing test

#### 6.1 Card feeding mouth and eject mouth setting

(1) Seaory S20 card printer setting:

Put your mouse on the selected "Seaory S20" printer, and click the right button, from the Printer menu, select "Printing preferences". Then you will find "Print option".

int Option Image Color Print Area Magnetic Encoding Heat	ing Energy Tool
Ribbon Type:       Orientation:         Automatically detect the installed ribbon for every print job.       Portrait         YMCKO       Image: Constraint on the image: Constrainton the image: Constraint on the image: Constraint on the	Copies:
I Print front side	CR-80 -
Rotate 180 Mirror	
Feed card: Front end manual feed slot	▼ 3 ■ Use the incoming and outgoing card presets in the device
Eject card: 4	
Back end manual feed slot	
Wait for removal Reject card: Back end manual feed slot	Advanced card in and card out options
	· 确定 取消 (应用(A)
	Feed card from front end manual feed slot: 6
	☑ Auto feed card when card is detected
	Eject card: Front end manual feed slot
	Feed card from back end manual feed slot:
	Auto feed card when card is detected
	Eject card: Front end manual feed slot
	Eject card: Front end manual feed slot

Excellent quality, Perfect service



(2) Seaory S21 card printer setting:

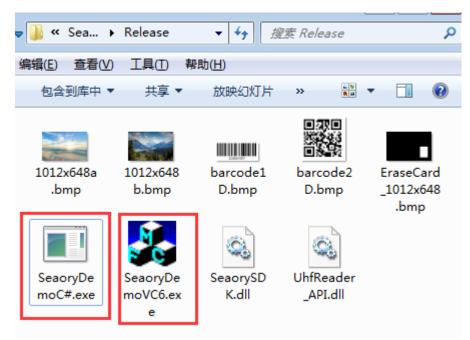
Put your mouse on the selected "Seaory S21" printer, and click the right button, from the Printer menu, select "Printing preferences". Then you will find "Print option".

Seaory S21	1 1	
Print Option Image Color Print Area Ribbon Type: Automatically detect the installed ribbon for every print job. YMCKO	Magnetic Encoding   Heating Energy   Tool Orientation: © Portrait @ Landscape	Copies:
Rotate 180 Mirror Feed card:	3	
Card feeder	•	Use the incoming and outgoing card presets in the device
Eject card: Output hopper		5
Reject card: Reject tray	•	Advanced card in and card out options
		Ų
	Feed card from front end ma	
	V Auto feed card when card	
	Eject card: Front end	l manual feed slot
	Feed card from back end ma	
	Eject card: Front end	l manual feed slot
	Exit	Apply to printer



#### 6.2 Printing test

(1) Open SeaoryDemoVC6.exe or SeaoryDemoC#.exe demonstration program. Below will introduce details about SeaoryDemoVC6.exe.



(2) After installed ribbons and placed blank cards, please make sure the Seaory S20 and S21 card printers are ready.

SeaoryDemo C# v0.9.17.0	
Printe : Seaory S20 🗸	SDK version: 0.9.17.0
Command Print Magnetic Smart Card	UHF
Get Printer Info	Get Printer Status
Execute Command F	edy. Get Printer Warning
	庭 Erase Partial Card
Front - 0 mm 0 x5	00ms Set Standby Parameters
0: Normal (Low level when card in)	✓ Set Card-In Signal



#### (2) Printing test steps

Setting the printing text and picture format, location, size etc as show in below picture.

After above setting steps, the Seaory S21 card printer will print the cards in YMCKO color printing firstly, then the card will insert into the Seaory S20 card printer automatically.

And the card will be exit out from S20 card printer back -end exit mouth after finished UV printing.

eaoryDemo C# v0.9.17.0						
inter: Seaory S20 Seaory S20	SDK version: 0	).9.17.0	Move	Card To Hopp	oer (back) 🗸	
comna Seaory S21	JHF		🗏 Enable v	write log to C:/Sead	ory/yyyymmdd.log	
Automatically detect the instant	stalled ribbon for every print job.	Front side dat	a:			
YMCKO - Landso	ape 🔹 300 x 300 DPI 🔹	X: 0	Y: 0	Width: 0	Height 0	
Print front side		Image: ./1012	x648a.bmp			
	text, images and graphics +	X: 100	Y: 500	Width: 0	Height 0	
Rotate 180 Mirro	K: ./barco	de1D.bmp				
		X: 100	Y: 20	Font: Arial	Size: 12	
Print back side	Text: This is front side.					
	text, images and graphics 👻	Back side dat	<b>D</b> .			
Rotate 180 Mirro	or	X· 0	Δ. Υ 0	Width: 0	Height 0	
Feed card: 📃 Use the incoming and		Image: /1012x648b.bmp				
Card feeder 🔹	outgoing card presets in the device	X· 700	Y 400	Width 0	Height 0	
Hook mode	<ul> <li>(S20R) Erase before printing</li> </ul>		de2D.bmp	Width. 0	Tiegni	
Retry by hook mode				-		
Eject card:	Mono speed mode	X: 200	Y:20	Font: Arial	Size: 12	
Output hopper -		Text: This is	Dack side.	(2)		
Wait for removal					Print bypass	
Get Printer Preference	Set Printer Preference	General Prir	nt S	Simple Print	driver	

- Input and setting the text,text type,text number and location(X,Y) here
- Choose the printing picture or input the file path directly, setting the picture's location(X.Y) and size