Dye-Sublimation
Retransfer Card Printer
SC 7000

● Specifications

Printing Method	YMC Dye Sublimation, K Resin. Re-Transfer	
Printing Speed	Approx: 36 sec / card, 100 cards / hour – YMCK Single Side	
Print Resolution	300 dpi	
Printing Side	Single or Both Side (Selected by the models)	
Printable Area	Edge to Edge / Over the Edge / Full – Bleed (full card surface +1 mm)	
Cards Supported	Card size	0.25mm – 1.0mm thick
	Card material	PVC/PET/PET-G/PC/ABS
Card Storage Capacity (ISO CR-80, ISO7810)	100 cards (Possible to add cards during printing)	
Signal Level	256 levels per color (YMC) 2 levels (BK)	
Interface	USB, Ethernet (support IPV 6)	
Driver & Setting Tools	Compatible with Microsoft ® XP / Windows® 2000 Professional / Vista	
Operating Environment	Temp: 15℃ – 30℃, Humidity:35% RH – 70% RH (Non condensation)	
Power Supply	100V – 120V AC / 220V – 240V AC (auto-detect)	
Weight	Single Side	Approx: 13.5 KG (without optional equipment)
	Dual Side	Approx: 15.5 KG (without optional equipment)
External Dimensions	343 X 347 X 381 mm (W x D x H)	
Accessories	Power cable, Card stacker, USB cable, CD-ROM drivers, Instruction manual	
Ink Ribbon (optional)	YMCK	1000 images (with RFID & security erase)
	YMCKK	750 images (with RFID & security erase)
	YMCUVK	750 images (with RFID & security erase)
	YMCKPO	750 images (with RFID)
	Re-Transfer Film	1000 images
Security Lock	Kensington Lock compatible	
Security Slot	Kensington Lock compatible	
Supported Laminator	Single Side	CL 700S
	Dual Side	CL 700D
Internal Options	ISO 7810 & 7811/2 Magnetic encoder, IC contact based on ISO 7816 (factory setting)	
External Options	Contactless encoding / Lamination unit (single or dual)	
Safety regulations	North America: UL60950-1, CSA C22.2 No.60950-1 Europe: EN60950-1	

● Options

CL - 700 Laminator
When combined with the SC 7000, single or dual side lamination can be performed as part of the printing process. Ideal for creating more durable cards or cards with high security

• Supports a wide range of media, (0.6 mm, 1.0 mm hologram film).
• 11 stage speed adjustment, temperature adjustment, enables the optimum setting to be achieved for a variety of card types.

*Design and specifications subject to change without notice.

Security Lock
Mechanical lock function to card hopper and front door prohibit access to supplies and consumables. Possible to lock and unlock from the host PC

Encoding Options
• Built in encoder units – For ISO Magnetic stripe HiCo and LoCo, Contact IC RW
• Contact/ Non contact IC R/W mounting board and mounting space - for Field upgradable encoder units, Mifare, DESFire, HID iCLASS, Legic, etc..

Anti Theft Function
Equipped security slot to connect Kensington Lock

● Laminating Module

Supported Printers	SC 7000S, SC 7000D
Lamination method	Thermal-transfer
Lamination Side	Single or Dual Side Simultaneous, selected by the models
Interface	IR wireless Connection (adaptor included)
Card size	CR-80 (54.0 x 85.6 mm)
Card thickness	0.76 mm
Card material	PVC, ABS, PET, Polycarbonate, PET-G (Need to make enough tests before deciding on your cards)
Card stocker	100 cards
Lamination film	600 patches per roll Holographic overlay, 1000 single side cards overlay. Compatible with CL 500 consumables for CL 700S
Lock	Mechanical door lock and Security Slot for Kensington lock
Power supply	AC 100V –120V / 200V –240V
Weight	Approx: 7.2kg (Dual side model) excluding film
Dimensions	210mm(W) ・322mm(D)・360mm（H）

SCREEN CHECK
Your Smart Card Solutions Partner

Dye-Sublimation Retransfer Card Printer
SC 7000

The Modular Cubic Design Single/Dual side Re-Transfer Printer with Highest Quality, Smallest Footprint, and Lowest Cost Of Ownership, for High Volume Continues ID Card Printing

- ● **High speed and reliability for continues printing**
- ● **Newly designed compact mechanism for heavy duty use**
- ● **Over the edge, single/dual side printing and lamination options**
- ● **Advanced information security functions**
- ● **Ideal for corporate ID, Insurance & Registration card projects**

Established Dye-Sublimation Retransfer Technology Combined with Information Security Features Provide the Most Advanced Specifications

Features of the SC Dye - Sublimation Retransfer Printer

SC 7000 New Features

High Speed / High Quality Printing

■ **Fastest printing**   The fastest retransfer printer*
*100 cards/ hr high speed printing (YMCK one side printing)

■ **High resolution**   advanced head heating adjustment technology for photo–finish printing

■ **High durability**   Durable mechanism supports continuous high quantity production

SC's well established unique sideways card transfer mechanism

Retransfer Film

Ink Ribbon

Heat Roller

Thermal Head

True Edge-to-edge Printing

True edge -to-edge printing is achieved through the process of printing on retransfer film and then transferring the image.

Card
Heat Roller
Platen Roller
Base Film
Retransfer Film
Printing Head
Ink Ribbon

*Patented
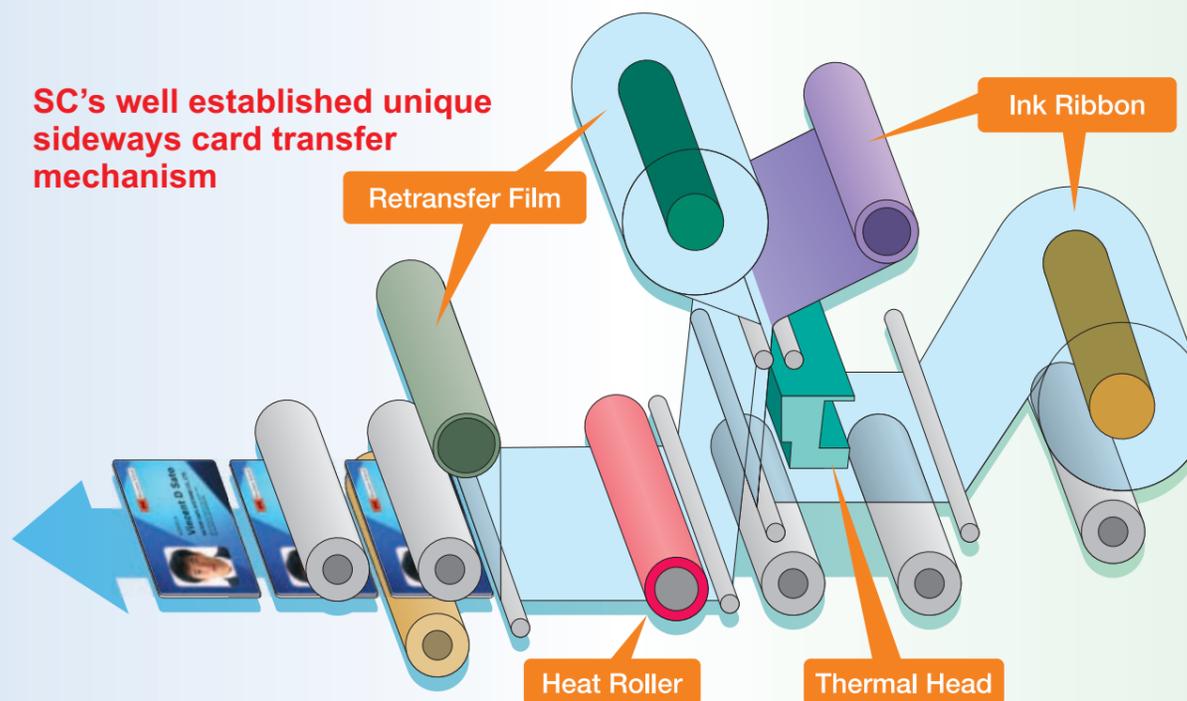
Security Erase

To protect disclose of individual personal information, the SC 7000 incorporates a mechanism to make the remaining image on the K (black) ink ribbon illegible.

Supported Ribbons – YMCK, YMCKK, YMCKUV
*This does not guarantee prevention of individual information disclose completely. It is only supported by the above ribbons.

Normal ink ribbon after printing

Ink ribbon after Security Erase
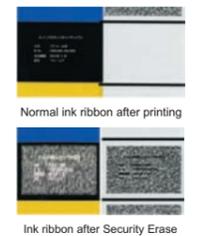
Sublimation UV

By utilizing the characteristics of retransfer printing, printing with sublimation UV ink has been achieved. Printed UV image cannot be seen under normal light. Moreover, image can be graded.

Card Cross-section
Fusion Method: Unevenness caused by ink thickness makes printing visible.

Card Cross-section
Retransfer Method: The surface remains flat, so the image remains invisible under normal light.

Gradation information like portrait images can be printed.

Normal Light

When exposed to black light
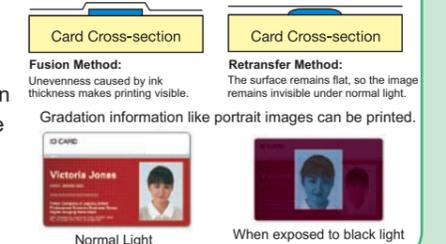
Supports a Wide Variety of Card Printing

■ **Wide variety of card materials**
Printing on non-PVC-type cards, on which direct printing methods cannot be print.

■ **Cards with an uneven surface**
For example, the uneven surfaces of smart cards containing microelectronics can be printed on.

■ **Easy on the printing head**
As the printing head does not come into direct contact with the card surface, foreign particles cannot cause damage to the printing head.

■ **Bend Remedy**
Advanced bend remedy function for single or dual side card printing.

Could not print properly

Direct printing method

Retransfer printing method (SC-330)

Foreign Particle

Heat Roller
Platen Roller
Retransfer Film
Card
Printing Head
Ink Ribbon
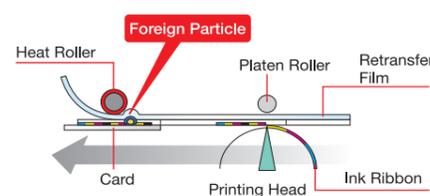
Supports IP sec Data Encryption Protocol & Encoding Via Network

Data misuse by unauthorized access can be prevented by data encryption of IPsec by incorporating dedicated hardware for higher encryption and decryption. Possible to encode via network.

XX??···X ←Data
IPsec encryption
XX??···X
SC 7000
ABCD···Z
Unauthorized access
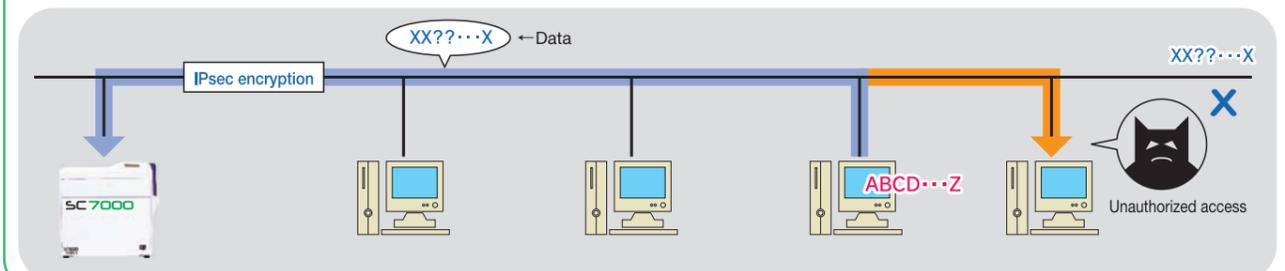
User Friendly

■ **Low running cost**
Ink ribbon (YMCK) and retransfer film cartridges allow more than 1,000 images to be printed, enabling low-cost high–volume printing to be achieved.

■ **Environmental Friendly**
A power saving mode has been incorporated to save on the energy consumed while the printer is on standby.

Comply the European Union's ROHS (Restrictions of Hazardous Substances) directive

■ **Easy to use**
Status monitor allows printer status to be monitored or adjusted easily from the PC.

Dual Interface – USB 2.0 / Ethernet

In addition to the existing USB 2.0 interface, 10 Base – T/ 100 Base – TX Ethernet interface have been equipped.

Multiple PCs can control multiple printers by setting up the required network architecture.

SC 7000   SC 7000   SC 7000