

Smart, Smarter than any other ID Card Printer

Smart

50 Series

www.idp-corp.com

SMART-50 Series, manufactured by IDP Corporation, is highly engineered dye-sublimation ID card printers which provide you with maximum efficiency for the ID card printing.

SMART-50 Series is designed based on the flexible usage environment support. This makes you easy to choose printer and save initial investment. You can add not only flipper or laminator for dual side printing or laminating but also various encoders such as magnetic stripe, contact and contactless encoder. The enhanced FINE™ Imaging Technology of SMART-50 Series enables to print high quality image. SMART-50 Series will be a perfect choice for ID card, membership card, access control card, government ID, healthcare card and banking card.

IDP Corporation tries to open new era of ID card printer. You might experience what is real ID card printer.



• Business Card



IDP Corporation is the new name of I&A System.

We changed our company name to show our enthusiasm for ID card printer.

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Technology

- Clear Printing by FINE™ Imaging Technology.
- Instant Direct Heating Mechanism for Lamination (SMART-50L).
- On-Site Upgradable Options for Dual Side Printing and Laminating.
- Automatic and Manual Card Feeding.
- On-Site Installable Encoders for Magnetic Strip, Contact and Contactless Smartcard.
- 64MB High Memory.
- Automatic Ribbon Search and No Need for Sensor Calibration.
- Environment Friendly Rewritable Printing (SMART-50R).

Design

- Compact and Optimized Design for Desktop Environment.
- 2 Lines LCD with 2 LED Buttons for Front Operation.
- Front Input and Output Hoppers.
- Easy TPH Replacement.
- Drop-In Ribbon Cartridge.

Software

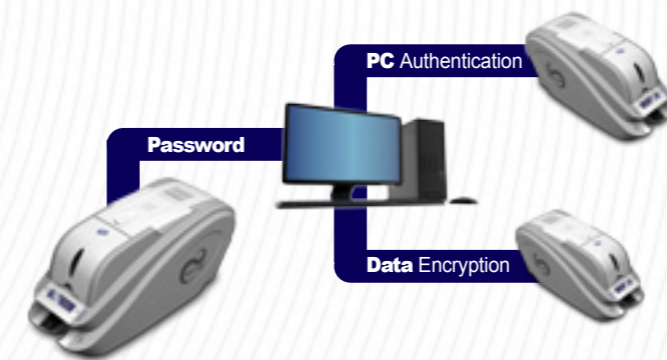
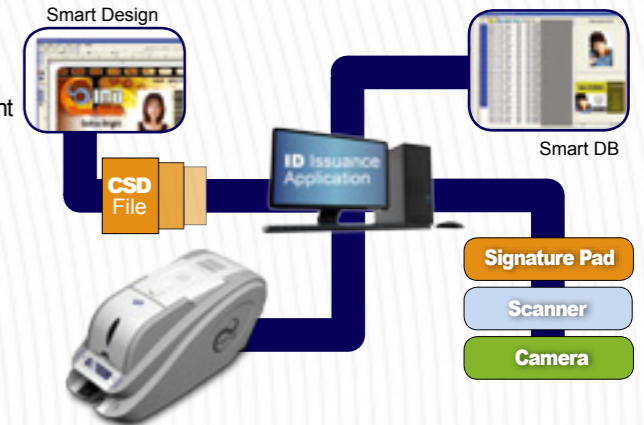
- Smart SDK to Develop Customized Printing Applications Without Additional Cost.
- Smart Utilities to Check Working States and Adjust Configurations.
- On-Line Technical Support.



Issuance

Smart Applications ensure your card issuance and data management through SMART-50 series at no extra cost.

- Smart Design is a card design tool including magnetic stripe encoding function.
- Smart DB is to manage issuing data conveniently and supports ODBC (Open Database Connectivity).
- Customer's data such as facial images, signatures and scanned data can be imported to Smart DB and printed on a card at a time.



Data Security

SMART-50 Series provides the effective security features for the authentication and the data encryption.

- SMART-50 Series has the password verification function to provide root and user authentications.
- SMART-50 Series can set a specific authorized PC for encoding and printing cards.
- SMART-50 Series can encrypt data transmitted on USB and can support SSL (Secure Socket Layer) Protocol on Ethernet communication.

Networking

SMART-50 Series can build up the network printer server for encoding and printing cards.

- Smart Network Module can not only print cards but also encode magnetic stripe, contact and contactless smartcard through the network.
- Smart Network Module has OCP (Open Card Print) Protocol which can encode and print cards using commands on all kind of platform and don't need to install printer driver and modify card issuance application using our SDK.





Smart, Smarter than any other ID Card Printer.

Newly enhanced SMART ID card printer series promises reliable quality, performance and convenience to you.



Laminating ID CARD PRINTER

SMART - 50L



SMART-50L (Printing and Laminating)

- Single or Dual-side printing with Single or Dual-side Lamination.
- Instant Direct Heating Mechanism for Lamination.
- Enhanced Printing and Laminating Speed (23 sec. per card, YMCK and Single Lamination).
- Field Upgradable by Installation of Laminator on SMART-50S.
- 2 lines LCD with 2 LED Buttons for Front Operation.
- Holographic Lamination for Visual Security and Card Durability.
- Installable Encoder: Magnetic Stripe, Contact and Contactless Smartcard, SIM.
- Upgradable Module: Network.



Single sided ID CARD PRINTER

SMART - 50S

SMART-50S (Single-sided Printing)



- Compact and Optimized Design.
- Enhanced Printing Speed (Max. 18 sec. per card, YMCKO).
- 300dpi with Edge-to-Edge Printing.
- 2 lines LCD with 2 LED Buttons for Front Operation.
- Advanced Cleaning Roller.
- Low Cost Security with UV Printing.
- Installable Encoder: Magnetic Stripe, Contact and Contactless Smartcard, SIM.
- Upgradable Module: Flipper, Laminator and Network.



Experience SMART Laminating Technology
See the perfect SMART LAMINATOR for your Security!

Lamination •

UV Panel •

300dpi & Edge-to-Edge •

Contact •

Contactless •

Magnetic Stripe •



Experience SMART ID Card Printing Technology

Feel the delicate Card printer solution from SMART!

- Overlay
- UV Panel
- 300dpi & Edge-to-Edge
- Contact
- Contactless
- Magnetic Stripe



• SMART-50D printed on both sides.



Dual sided ID CARD PRINTER

SMART - 50D



SMART-50D (Dual-sided Printing)

- Single or Dual-sided Printing.
- Enhanced Printing Speed (Max. 25 sec. per card, YMCKOK).
- 300dpi with Edge-to-Edge Printing.
- Field Upgradable by Installation of Flipper on SMART-50S.
- 2 lines LCD with 2 LED Buttons for Front Operation.
- Low Cost Security with UV Printing.
- Installable Encoder: Magnetic Stripe, Contact and Contactless Smartcard, SIM.
- Upgradable Module: Laminator(After Removing Flipper) and Network.



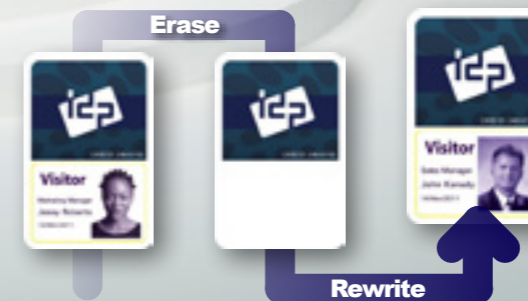
Rewritable ID CARD PRINTER

SMART - 50R




SMART-50R (Rewritable Printing)

- Direct Thermal Rewritable Method.
- 2 LED Buttons for Front Operation.
- Enhanced Rewriting Speed (Max. 10 sec. per card).
- Installable Encoder: Magnetic Stripe, Contact and Contactless Smartcard.
- Upgradable Module: Network.

Experience SMART Rewritable Technology
Bring you a cost efficient solution for rewritable cards!







Printer Specification



SMART-50 Series				
	SMART-50S	SMART-50D	SMART-50L	SMART-50R
	Single Side Card Printer	Dual Side Card Printer	Card Printer and Laminator	Re-Write Card Printer
Printing				
Print Type	Dye - Sublimation	Dye - Sublimation	Dye - Sublimation	Thermal Transfer
Print Area	Edge to Edge	Edge to Edge	Edge to Edge	Edge to Edge
Resolution	300 dpi	300 dpi	300 dpi	300 dpi
Dual Side Printing	Option (with Flipper)	Yes	Yes (Flipper Installed)	No
Card				
Card Feeding	Automatic	Automatic	Automatic	Automatic
Card Size	ISO CR80 (54mm x 86mm / 2.12" x 3.38")	ISO CR80 (54mm x 86mm / 2.12" x 3.38")	ISO CR80 (54mm x 86mm / 2.12" x 3.38")	ISO CR80 (54mm x 86mm / 2.12" x 3.38")
Card Thickness	0.38mm (15mil) ~ 1.0mm (40mil)	0.38mm (15mil) ~ 1.0mm (40mil)	0.76mm (30mil) ~ 1.0mm (40mil)	0.38mm (15mil) ~ 1.0mm (40mil)
Card Type	PVC, Composite PVC, PET	PVC, Composite PVC, PET	PVC, Composite PVC, PET	Rewriteable Thermo-chromic Material
Print Speed				
Monochrome	5 sec. (720 card / hour)	5 sec. (720 card / hour)	5 sec. (720 card / hour)	20 sec. (180 cards/hour) Max. 10 sec. (Max. 360 cards/hour)
YMCKO	22 sec. (164 cards/hour) Max. 18 sec. (Max. 200 cards/hour)	22 sec. (164 cards/hour) Max. 18 sec. (Max. 200 cards/hour)	22 sec. (164 cards/hour) Max. 18 sec. (Max. 200 cards/hour)	
YMCKOK		30 sec. (120 cards/hour) Max. 25 sec. (Max. 144 cards/hour)	30 sec. (120 cards/hour) Max. 25 sec. (Max. 144 cards/hour)	
Laminating				
Laminating Mode			Single & Dual Lamination	
Laminating Film			0.6mil, 1.0mil (Clear & Holographic)	
Laminating Speed			Simultaneous: 23 sec. (YMCK, Single Lamination) Simultaneous: 33 sec. (YMCKK, Single Lamination) One by One: 44 sec. (YMCK, Single Lamination) One by One: 54 sec. (YMCKK, Single Lamination)	
Capacity				
Input Hopper Capacity	100 Cards	100 Cards	100 Cards	100 Cards
Output Hopper Capacity	40 Cards	40 Cards	40 Cards	40 Cards
System				
Memory	64MB RAM	64MB RAM	64MB RAM	64MB RAM
Display & Control Panel	2 Lines LCD Display / 2 LED Buttons	2 Lines LCD Display / 2 LED Buttons	2 Lines LCD Display / 2 LED Buttons	2 LED Buttons
Supported Platforms	Microsoft Windows 2000/2003/XP/Vista/7, Mac OS, Linux	Microsoft Windows 2000/2003/XP/Vista/7, Mac OS, Linux	Microsoft Windows 2000/2003/XP/Vista/7, Mac OS, Linux	Microsoft Windows 2000/2003/XP/Vista/7, Mac OS, Linux
Communication	USB, Ethernet (Option)	USB, Ethernet (Option)	USB, Ethernet (Option)	USB, Ethernet (Option)
Power Supply	Free Voltage (AC 110 / 220V, 50~60Hz)	Free Voltage (AC 110 / 220V, 50~60Hz)	Free Voltage (AC 110 / 220V, 50~60Hz)	Free Voltage (AC 110 / 220V, 50~60Hz)
Power Consumption (Max)	48W	48W	96W	48W
Temperature / Humidity	15 ~ 35°C / 20 ~ 80%	15 ~ 35°C / 20 ~ 80%	15 ~ 35°C / 20 ~ 80%	15 ~ 35°C / 20 ~ 80%
Dimensions				
Dimensions (W x L x H)	170mm x 420mm x 195mm	170mm x 510mm x 195mm	170mm x 900mm x 195mm	170mm x 420mm x 195mm
Weight	4.5 Kg / 10 lbs	5.5 Kg / 12 lbs	9.2 Kg / 20 lbs	4.5 Kg / 10 lbs
Encoding Options				
Magnetic	ISO 7811 (Track I, II, III Read/Write), HiCo / LoCo, JIS II	ISO 7811 (Track I, II, III Read/Write), HiCo / LoCo, JIS II	ISO 7811 (Track I, II, III Read/Write), HiCo / LoCo, JIS II	ISO 7811 (Track I, II, III Read/Write), HiCo / LoCo, JIS II
Contact Smartcard	ISO-7816 (ID - 1)	ISO-7816 (ID - 1)	ISO-7816 (ID - 1)	ISO-7816 (ID - 1)
Contactless Smartcard (Internal & External)	MIFARE, ISO 14443 (TYPE A/B), ISO 15693, DESFIRE, iCLASS	MIFARE, ISO 14443 (TYPE A/B), ISO 15693, DESFIRE, iCLASS	MIFARE, ISO 14443 (TYPE A/B), ISO 15693, DESFIRE, iCLASS	MIFARE, ISO 14443 (TYPE A/B), ISO 15693, DESFIRE, iCLASS
Certifications	CE, UL, FCC, KCC	CE, UL, FCC, KCC	CE, UL, FCC, KCC	CE, UL, FCC, KCC

Consumables









► Color Ribbons

Ribbons Type				
	YMCKO	YMCKOK	YMCFKO	HYMCKO
Cards / Ribbon	250	200	200	350
Description	Full Color Ribbon with Resin Black and Overlay	Full Color Ribbon with Resin Black, Overlay and Resin Black for Back Side	Full Color Ribbon with UV Panel, Resin Black and Overlay	Half Panel Size Color Ribbon with Resin Black and Overlay
SMART-50S	0	—	0	0
SMART-50D	0	0	0	0
SMART-50L	0	0	0	0





► Security Films

Films Type		
	CPF	HPF
Cards / Film	250	250
Description	Clear Patch Film	Hologram Patch Film
SMART-50S	—	—
SMART-50D	—	—
SMART-50L	0	0


► Mono Ribbons

Ribbons Type								
	KO	K	W	B	R	MG	MS	SO
Cards / Ribbon	600	1200	1200	1200	1200	1200	1200	1200
Description	Black Monochrome Ribbon with Overlay	Black Monochrome Ribbon	White Monochrome Ribbon	Blue Monochrome Ribbon	Red Monochrome Ribbon	Metallic Gold Monochrome Ribbon	Metallic Silver Monochrome Ribbon	Scratch-Off Monochrome Ribbon
SMART-50S	0	0	0	0	0	0	0	0
SMART-50D	0	0	0	0	0	0	0	0
SMART-50L	0	0	0	0	0	0	0	0

► Cleaning Kits

			
Long Cleaning Card	Short Cleaning Card	Cleaning Swap	Cleaning Pen
Automatic Cleaning	Manual Cleaning	Print Head and Rollers Cleaning	Print Head Cleaning

► Card


Primuss Card
PVC, CR80