AN INNOVATIVE
ID CARD PRINTER
TECHNOLOGY LEADER

IDP, one of the ID Card Printer industry, has been dedicated to make a better ID Card Printer with diverse and innovative approaches with its technology.

IDP, one of the pioneers of ID Card printing technology, has developed and manufactured ID card printers since 2005. We differentiate ourselves by providing high quality products with the latest mechanical, electronic and software technologies and by providing the best technical supports and warranties. Our card printers support not only graphic quality color printing and laminating but also all kinds of encodings such as magnetic stripe and contact and contactless smart card.

These printers are used for all kind of cards like employee badges, student IDs, payment cards, access control card, leisure membership cards and customer loyalty cards etc.

IDP aims at making plastic card printing widely available and affordable by offering simple, on-demand and custom-ized printing solutions that bring quality to the largest scope of business users.

We wish you and us become good partners in this industry.

smart 70 — Whatever you want or need!   smart 51   smart 31   smart BiT   WiSE

smart Series

manufactured by IDP Corporation, is a highly engineered dye-sublimation ID Card printer which provides you with maximum efficiency for production of plastic cards in commercial and government applications.

SMART series is designed to support a flexible user environment, which makes it easy to choose the correct printer and save money. You can easily add a flipper or laminator, for dual sided printing or laminating, and various encoders such as magnetic stripe, contact and contactless. The enhanced FINE™ Imaging Technology of the SMART series enables you to print high quality images. The SMART Series will be a perfect choice for Employee IDs, Membership Cards, Access Control Badges, Secure Government Credentials, Social Services Cards, and even the instant issuance of Banking cards.

Please come and experience the flexibility and quality of the SMART series.

TECHNOLOGY

Clear printing by FINE™ Imaging Technology

Instant direct heating mechanism for lamination *Patent

Field upgradable options for dual sided printing and laminating

Field upgradable encoders for magnetic stripe, contact and contactless smart card

Automatic ribbon recognition and no need for sensors & motors calibration

Eco friendly rewritable printing (SMART-31R)

500 cards & scratch free (SMART-70) *Patent

High-durability: Metal frame & shaft, all bearing (SMART-51 & 70)

SOFTWARE

SMART SDK, to develop customized applications

SMART Utilities, to check working states and adjust configurations

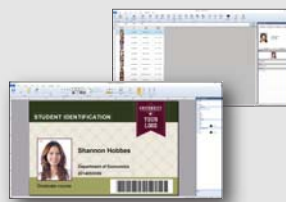Smart ID for designing and issuing cards

On-Line technical support

CONVENIENCE

User friendly design for desktop environment

LCD & LED for status display of printer

Easy Thermal Print Head (TPH) replacement

Front input and output hoppers (SMART-31 & 51)

Drop-in ribbon cartridge (SMART-31 & 51)

Full modular design (SMART-70)

Drawer type ribbon cartridge (SMART-70)

EASY ISSUING

Smart ID ensures appropriate card issuance and data management with SMART series printers at no extra cost. This application allows you to design and issue a desired card conveniently. It can be easily used with simple essential functions. Also, it is designed for advanced user to use a variety of detailed functions.

- Design and print (Image, Photo and Text)
- 1D & 2D Barcode printing
- Auto portrait (Auto face detection, adjustment of size & position)
- Printing of sequential numbers
- Card design templates
- Plug-in for supporting external devices (Sign pad, Camera, Scanner)
- Convenient card issuance and data management
- Magnetic stripe (MS), contact & contactless smart card encoding by using plug-in program

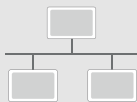Smart ID is a software which is provided with Smart ID Card Printer.

HIGH SECURITY

SMART series provides effective security features for access control and data encryption.

PC Authentication
Data Encryption
Password

- SMART series has a password verification function to provide administrator and user authentications.
- SMART series can set a specific authorized PC for encoding and printing cards.
- SMART series can encrypt data transmitted on USB and can support SSL (Secure Socket Layer) protocol on ethernet communications.
- SMART-70 series is equipped with physical lock and Kensington lock system on each station to increase security.

POWERFUL NETWORKING

SMART series can utilize the network printer server for encoding and printing cards.

TCP/IP
SSL (Secure Socket Layer)

- SMART Ethernet module can not only print cards but also encode MS, contact and contactless smart card through the network.
- SMART Ethernet module has OCP(Open Card Print) protocol which can encode and print cards by using commands on multiple platforms without installing the printer driver.
- Available encoding the contact & contactless smart card by Ethernet.

Available on the App Store
ANDROID APP ON Google play

• App developed by OCP (Open Card Print) on Android or iOS mobile device

Beyond Expandability,

Ultimate ID Card Printer Solution

smart 70 is a high-performance large capacity ID card printer designed by the unique modular concept that can support various printer configurations to meet different user requirements.

500 cards can be continuously printed, laminated and encoded on various cards. SMART-70 consists of 5 different modules (Input Hopper, Printer, Hybrid Flipper, Laminator, Output Hopper) that can be configured in various combinations according to different customer requirements. Required modules can be easily added to extend functions depending on your needs.

Input Hopper   Printer   Hybrid Flipper   Laminator   Output Hopper   Full Modular

Easily Upgradable, No need for Tools or IT technician

Just connect each station and synchronize

• Input Hopper
Large Capacity
Max. 500 cards
Scratch Free
Residual Q'ty Sensor
High Durability / Indicator LED
Near empty & empty alert notifications
Physical Lock & Kensington Lock

• Printer
High Speed Printing
Max. 1,000 cards/h (Mono) | Max. 225 cards/h (YMCKO)
300, 600 & 1200dpi with Edge-to-Edge Printing*
Enhanced FINE™ Imaging Technology
Drawer type ribbon cartridge
Installable MS & Contactless Encoder
LCD & Button / Indicator LED
High Durability
Physical Lock & Kensington Lock

• Hybrid Flipper
Installable Encoding modules
Contact & Contactless Smartcard Encoder
Image Scanning & Barcode Recognition
Dual Sided Image Scanning (600 / 300 dpi),
1D & 2D Barcode Recognition (Front / Back)
Card Flipper
High Durability, Indicator LED
Error Card Bin** (Max. 30 cards)
Physical Lock & Kensington Lock

• Laminator
No warming-up time
Instant direct heating mechanism
Scratch Free
Drawer type film cartridge
LCD & Button / Indicator LED
High Durability
Physical Lock & Kensington Lock

• Output Hopper
Large Capacity
Max. 500 cards
Scratch Free
Residual Q'ty Sensor
Full space alert notifications
High Durability / Indicator LED
Physical Lock & Kensington Lock

• Stacker
Max. 100 cards

* 300 & 600dpi (Color & Mono), 1200dpi (Mono only)
** If encoder or scanner options are not selected, Error card bin will be provided.

FLEXIBILITY

Single sided Printing | Single sided Printing & Laminating | Dual sided Printing, Encoding & Laminating | Single or Dual sided Multi-Printing, Laminating & Encoding | Stand-alone Laminating

Multi - Printer Combination

9.9 SEC.
364 cards/hour
Partial Area Printing (YMCKO)

12.5 SEC.
288 cards/hour
Full Area Printing (YMCKO)

Input Hopper +
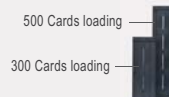PRINTER (YMC) + PRINTER (KO)

* For Single sided Partial area or Full area Color Printing

Versatile Hopper

• High Volume In/Output Hopper
(500 or 300 cards Cartridge Selectable)
• Multi- Hopper
• Residual Q'ty Sensor
• Physical Lock & Kensington Lock
• Scratch Free

500 Cards loading
300 Cards loading

Stand-alone Laminator

TURN ON and
JUST LAMINATION NOW!

No Need Device Driver or PC

High Security and Sophisticated *Laser Personalization System*

Laser Engraver for ID Cards

SMART-70X is a laser engraver module of IDP's SMART-70 Series ID card printer.

Equipped with laser engraving capability, SMART-70X is a perfect solution for instant personalization of secure cards in an environment where the maximum level of security is required.

With the unique modular concept of SMART-70 Series, SMART-70X can be used as a stand-alone laser engraver or with other SMART-70 modules such as SMART-70 direct-to-card printer, Laminator, Hybrid Flipper, Output hopper.

* PC (Polycarbonate) card is recommended for standalone use of SMART-70X.
* Laserable PVC card is recommended for use of SMART-70X with SMART-70 Printer (Dye-Sublimation Printing)
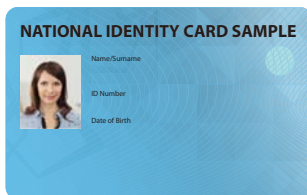
- Stand-alone single or dual-sided laser engraving
  (Text, Images and Security features)
- 1200dpi, Raster & Vector Scanning
- Max. 103 cards/hour (Single-sided Laser engraving only)
- Micro Text, MRZ (Machine Readable Zone) Text
- CLI (Changeable Laser Image)
- Tactile Effect
- Magnetic encoder, contact / contactless encoder installable
- High Volume Input & Output Hopper, Color & Mono Printing
  (as optional modules)
- Eco-Friendly Low Power Consumption
- Full Modular Design

SMART-70 Input Hopper + SMART-70 Printer + SMART-70X Laser Engraver

Laser Engraving Technique

Direct Dye-Sublimation Color Printing

NATIONAL IDENTITY CARD SAMPLE
Name/Surname
ID Number
Date of Birth

Micro Text (0.8mm)

P/SMART-70X/LASER_ENG

Tactil effect

NATIONAL IDENTITY CARD SAMPLE
DONOR
Name/Surname
Parthenia Smartt
ID Number
KR3520-250303
Date of Birth
05 / 14 / 1983
smart **70X**
Expires: 31/12/2016
Parthenia smartt
SMART<SMART-70X<COLOR<PRINT<LASER
ID4<KOREA<<ENGRAVING<20180101<AAAA
iDP

MRZ Text with Tactile effect
(Machine readable zone)

CLI
(Changeable Laser Image)

DONOR

Ghost Image

Flexibility

Easily Upgradable, No need for Tools or IT technician
Just connect each station and synchronize

Input Hopper + Printer + Laser Engraver + Hybrid Flipper + Laminator + Output Hopper

Ideal solution for printing high-quality ID cards in moments.

Single-sided SMART-51 (51S) can be transformed into a dual-sided printer (51D) or into dual-sided printer with laminator (51L) by applying Flipper module or Laminator module at the back of the printer which can be easily installable. SMART-51 Laminator is a good option for printing and laminating at the same time which enables to produce extra security long-life ID cards with customizable security patch films. With DLW (Direct Laminating in a Wink) technology, SMART-51 Laminator ensures most stable & fast laminating with premium quality protection for ID cards.

- New Input Hopper (up to 200 cards loading)
- Removable Output Hopper (*Option)
- Support of Transparent Cards
- Cartridge type Laminate Film Loading
- Support CR79 Cards

- Top-side Mag. Encoding
- All-in-One type Lock System (*Option)
- Single Card Feeder (*Option)
- Kensington Security Lock (*Option)
- Back-side Stacker (up to 100 cards, *Option)

Single sided ID CARD PRINTER
smart-51 S

- Color & Mono Single Sided Printing
- Print Speed: Max. 17 sec./card (YMCKO)
- 300, 600 & 1200dpi with Edge-to-Edge Printing
- 2 Lines LCD with 2 LED Buttons for Front Operation
- Support of Transparent Cards
- Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless
- Upgradable Modules: Flipper, Laminator & Ethernet, WiFi

Dual sided ID CARD PRINTER
smart-51 D

- Single or Dual Sided Printing
- Print Speed: Max. 22 sec./card (YMCKOK)
- 300, 600 & 1200dpi with Edge-to-Edge Printing
- 51S Field Upgradable to 51D
- 2 Lines LCD with 2 LED Buttons for Front Operation
- Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless
- Upgradable Modules: Laminator & Ethernet, WiFi

Laminating ID CARD PRINTER
smart-51 L

- Single or Dual Sided Printing and Laminating
- Instant Direct Heating Lamination *patent
- Printing & Laminating Speed: Max. 22 sec./card (YMCK & Single Lamination)
- 300, 600 & 1200dpi with Edge-to-Edge Printing
- 51S & 51D Field Upgradable to 51L
- 2 Lines LCD with 2 LED Buttons for Front Operation
- Holographic Lamination for Visual Security & Card Durability
- Installable Encoders: MS, Contact & Contactless
- Upgradable Modules: Ethernet, WiFi

- New Input Hopper
200 cards with cover open, 100 cards in default
200 Cards loading
100 Cards loading

- Single Card Feeder (*Option)

- Removable - Output Hopper

- Top-side Mag Encoding (*Option)
- Support of Transparent Card
- Support CR79 Type (Factory-installed, *Option)
- Ethernet, WiFi (*Option)

- Improvement of Print speed
- 300, 600 & 1200dpi Printing Resolution
- Enhanced FINE™ Imaging Technology
- State-of-the-art CPU
- Reduced Printing Noise
- All-in-one Lock system (*Option)
- Easy to Handle Laminate Film Cartridge

- Back-side Stacker
(up to 100 cards, *Option)

Simple and Easy for everyone to use

SMART-31 Series value class ID card printer for everyone
which is a perfect solution for printing ID cards at a low budget.
SMART-31S (single-sided), SMART-31D (dual-sided) and SMART-31R (rewritable)
printer models are available.

SMART-31 Rewritable printer is an ideal solution for printing temporary
information on ID cards.

Applications

Employee ID card
Student ID
Payment card
Health card
Leisure resort pass card
Identification card
Transport pass card
Loyalty card / Event card

Single sided ID CARD PRINTER
smart-31 S

- Color & Mono Single Sided Printing
- Print Speed: Max. 23 sec./card (YMCKO)
- 300, 600 & 1200dpi with Edge-to-Edge Printing
- LED Button for Front Operation
- Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless
- Upgradable Modules: Flipper & Ethernet

Dual sided ID CARD PRINTER
smart-31 D

- Single or Dual Sided Printing
- Print Speed: Max. 29 sec./card (YMCKOK)
- 300, 600 & 1200dpi with Edge-to-Edge Printing
- 31S Field Upgradable to 31D
- LED Button for Front Operation
- Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless
- Upgradable Modules: Ethernet

Rewritable ID CARD PRINTER
smart-31 R

- Direct Thermal Rewritable Method
- Rewrite Speed: Max. 12 sec./card
- 300, 600 & 1200dpi with Edge-to-Edge Printing
- LED Button for Front Operation
- Installable Encoders: MS, Contact & Contactless
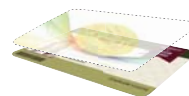- Upgradable Modules: Ethernet

ERASE Rewrite
Rewrite ERASE

Provides a cost effective solution!

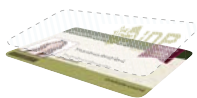## Technologies for Printer

Plastic card Printing

Plastic cards are prevalent in our daily lives,
such as payment cards driver's licenses, membership cards
and employee identification badges.
Their standard size, portability, and durability make them
the ideal choice for many applications.
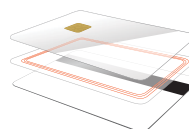
Lamination

Lamination uses polyester film onto a card's surface to
protect it from heat, pressure, wear, tear and to fight adhesive
things.
The film is applied to card at a high temperature.

UV Panel

The UV Panel is an advanced form of panel for security that
shows a fluorescence image with UV light.
It is cost-effective and an easy way to protect fake cards.
To prevent counterfeit, some ID cards include a UV watermark
which is only visible under the UV light.

Encoding

Encoding is one of the important functions in ID card printer.
We issue ID card not only for visual identification but for storing
some information. There are three major encoding methods
such as magnetic stripe, contact IC and contactless IC.
IDP Card printer supplies all kinds of encoding options together
with the picture quality printing.

Smart51 KIOSK CARD PRINTER

- Single or Dual-sided Card Printing
- Up to 4 Selectable Hoppers
- 300 or 500 Card Refillable Cartridges
- Up to 212 cards/hour (YMCKO)
- Installable MS, Contact & Contactless Encoder
- Compact and Reliable design
- Customizable bottom plate (Size, Layout of Control Panel & Adaptor, etc.)
- **SMART-51SK** : Single sided ID Card Printer
- **SMART-51DK** : Dual sided ID Card Printer

High capacity, flexible and reliable card printing module for various Kiosks solutions.
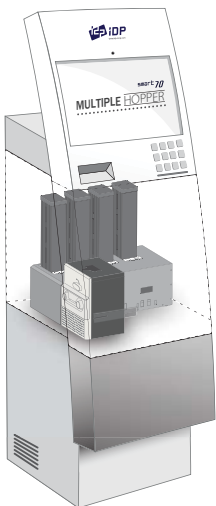
The IDP's Kiosk Card Printer is a high capacity, flexible and reliable card printing module for various types of self-service Kiosks.

Using the compact and solid SMART-51 printing engine or high performance SMART-70 printer module and multi-hopper system (up to 6 input hoppers) with detachable 300 or 500 cards cartridge, the IDP SMART Kiosk Card Printer will provide variety of choices depending on the requirements.

Smart70 Multiple Hopper
Whatever you want or need!

- **Multiple Hopper system designed to fit the SMART-70 Series**
- Up to 6 Selectable Hoppers
- 300 or 500 Cards Refillable Cartridges
- Up to 6 Different type cards loading
- Full Metal structure

max.
"3,000"
cards loading

up to
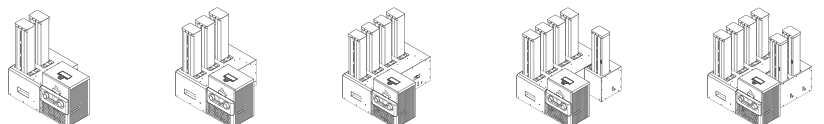## "6" different
type cards loading

Multiple Hopper system designed to fit the SMART-70 Series.

Multiple hopper system for SMART-70 is designed to fit the needs of large capacity with high efficiency for Kiosk operation.

From minimum 2 to maximum 6 large capacity 500 cards hoppers can be used depending on the user environment. Monochrome ribbon supports up to 3000 prints minimizing maintenance cost and time and up to 3000 cards loadable hoppers with 6 different types on each hopper will maximize the efficiency of Kiosk application.

Advantage of SMART-70's unique full modular design makes it possible to add Encoding module and Laminating module.
Full metal structure of the multiple hopper system is ideal for high volume issuance environment.

Ribbon Shredder
for Security Assurance

smartBIT

Securely Destroy Sensitive Personal Information

Security Assurance

Protecting personal information is paramount and IDP SMART-BIT shredder is specially designed to ensure the secure destruction of used ID Card Printer Ribbon with personal information.

Flexible Card Printer Ribbon Compatibility

The SMART-BIT is designed to accommodate the industry's popular brands of direct-to-card printer ribbons.

Complete Shredding

＊ **Twisted Micro-Cut Technology** (Patent)

With the IDP's Twisted Micro-Cut Technology, SMART-BIT uses unique twist and cut motions to completely shred ID Card Printer ribbon panels into tiny unrecognizable particles.
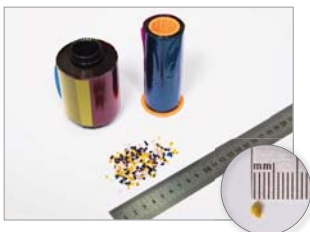
Compact Easy-to-use Design

SMART-BIT is compact and light weight in design and will easily fit into any office desktop environment. The SMART-BIT's waste bag will ensure complete capture of ribbon particles and simple transfer to a waste bin.

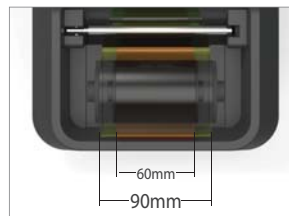|	
Shredable Ribbon Type	Dye-Sublimation Ribbon, Resin & Wax Ribbon
Shredable Ribbon Width	60mm to 90mm (Installable Ribbon Core Width : Max. 120mm)
Installable Ribbon Diameter	Max. Ø80
Shredding Speed	Max. 15 meters/minute
Shredder Bin Capacity	6 Rolls (YMCKO, 250 cards/roll)
Cutting Type	Twisted Micro Cut *Patent
Shredded Particle Size	Approx. 2.5mm
Control	Speed (Normal or Fast mode), Start & Stop, Reverse
Auto Stop	Finished Shredding, Ribbon Jam
Interface	4 LEDs, 3 Buttons
Warranty	Approx. 100 km
Power Supply	DC24V, 2A
Temperature / Humidity	15~35℃ / 35~70%
Dimensions (W x H x L) ∣ Weight	232 x 364.6 x 386 mm / 9.1 x 14.4 x 15.2 inch ∣ Approx. 4.8 kg / 10.6 lbs

Complete Shredding

With the IDP's Twisted Micro-Cut Technology, SMART-BIT uses its unique twist and cut motions to completely shred ribbon panels into tiny particles. (*Patent pending)

Easy-to-use

Easy to use interface and shredded ribbons can be easily discarded using the SMART-BIT Waste Bag when full.

Flexible Ribbon Compatibility

60mm
90mm

The SMART-BIT will accommodate the industry's popular brands of direct-to-card desktop printer ribbons.

Compact Design

The SMART-BIT is simple to use and has a compact size and light weight design that can easily fit into any office desktop environment.

Specifications

Model		WISE-CXD80S (Single side)	WISE-CXD80D (Dual sides)
Printing	Print Type	Dye Sublimation / Resin Thermal Retransfer	
	Print Area	Full Bleed (Real edge-to-edge)	
	Resolution	300 dpi	
Card	Card Feeding	Automatic	
	Card Size	ISO CR80 (54mm x 86mm / 2.12"x3.38")	
	Card Thickness	0.25mm(10mil) ~ 1.0mm(40mil)	
	Card Type	PVC, Composite PVC, PET	
Print Speed	YMCK	29 sec./card (124 cards/hour)	29 sec./card (124 cards/hour)
	YMCKK	-	40 sec./card (90 cards/hour)
Capacity	Input & Output	100 cards each(0.76mm)	
System	Supported Platform	Microsoft Windows 2000 Pro., XP, Vista, Windows Sever 2003 R2 SP2, Sever 2008	
	Communication	USB2.0, Ethernet fitted as standard	
	Power Supply	Max. 3A (100V to 120V), Max. 1.5A (220V to 240V)	
	Temperature/Humidity	15~35℃ / 35~70%	
Dimensions	Dimensions (WxLxH)	343mm (13.5") x 322mm (12.7") x 335mm (13.2")	
	Weight (kg/lbs)	13.0 / 28.7 (without optional unit)	15.5 / 34.2 (with optional unit)
Options		Magnetic stripe Encoding (HiCo/LoCo), Contact chip Encoding (Read/Write)	
		Contactless Encoding, Bend Remedy Unit, Lamination Unit (*WISE-CL600)	
Certifications		CE, FCC, KC	

Retransfer class ID CARD PRINTER
WiSE-CXD80

- Color & Mono Single or Dual Sided Printing
- Print Speed: 29 sec./card (YMCK)
- Detachable and anytime-refillable hopper
- Intuitive and flexible function LCD panel
- Removable and water-washable cleaning roller
- Security locks on hopper & front door
- Kensington lock
- Inline encoding and lamination (with optional unit)
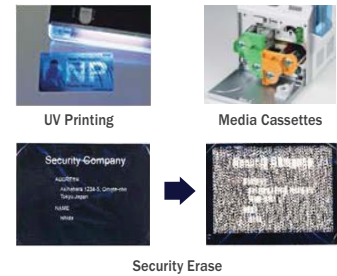- Environmentally friendly compact design

WISE-CL600 Laminator   WISE-CXD80 Printer

Laminator for WISE Series
WiSE-CL600
The superior quality of lamination printing for high security

Print with Security

UV Printing   Media Cassettes

Security Erase

High Security and Sophisticated *Laser Personalization System*

WISE-LE Laser Engraver   WISE-CXD80 Printer

Laser Engraver for WISE Series
WiSE-LE

- Laser Engraver for WISE Retransfer ID Card Printer
- Single or Dual-Sided Laser Engraving of Text, Images and Security Features
- 1200dpi, Raster & Vector Scanning
- Max. 103 cards/hour (Single-sided Laser engraving only)
- Micro Text, MRZ (Machine Readable Zone) Text
- MLI (Multiple Laser Image)
- Tactile Effect
- Color & Mono Printing (with WISE-CXD80)
- Eco-Friendly Low Power Consumption

COLOR RIBBONS

YMCKO	500 Cards/Roll	Full Color Ribbon with Resin Black & Overlay
YMCKOK	500 Cards/Roll	Full Color Ribbon with Resin Black, Overlay & Black for Back Side
YMCFKO	500 Cards/Roll	Full Color Ribbon with UV Panel, Resin Black and Overlay
HYMCKO	1000 Cards/Roll	Half Panel Size Color Ribbon with Resin Black and Overlay
YMC	1000 Cards/Roll	Full Color Ribbon

MONO RIBBONS

KO	1500 Cards/Roll	Black with Overlay
K	3000 Cards/Roll	Black
W	3000 Cards/Roll	White
B	3000 Cards/Roll	Blue
R	3000 Cards/Roll	Red
MG	3000 Cards/Roll	Metallic Gold
MS	3000 Cards/Roll	Metallic Sliver
SO	3000 Cards/Roll	Scratch-Off

SECURITY FILMS

HPF	500 Cards/Roll	Hologram Patch Film
CPF	500 Cards/Roll	Clear Patch Film

COLOR RIBBONS

YMCKO	250 Cards/Roll	Full Color Ribbon with Resin Black & Overlay
YMCKOK	200 Cards/Roll	Full Color Ribbon with Resin Black, Overlay & Black for Back Side
YMCFKO	200 Cards/Roll	Full Color Ribbon with UV Panel, Resin Black and Overlay
HYMCKO	350 Cards/Roll	Half Panel Size Color Ribbon with Resin Black and Overlay
3YMCKO	400 Cards/Roll	1/3 Panel Size Color Ribbon with Resin Black and Overlay

MONO RIBBONS

KO	600 Cards/Roll	Black with Overlay
K	1200 Cards/Roll	Black
W	1200 Cards/Roll	White
B	1200 Cards/Roll	Blue
R	1200 Cards/Roll	Red
MG	1200 Cards/Roll	Metallic Gold
MS	1200 Cards/Roll	Metallic Sliver
SO	1200 Cards/Roll	Scratch-Off

SECURITY FILMS

HPF	250 Cards/Roll	Hologram Patch Film
CPF	250 Cards/Roll	Clear Patch Film

Long Cleaning Card	Short Cleaning Card	Cleaning Swab	Cleaning Pen	Primuss Card
Automatic Cleaning	Manual Cleaning	Print Head & Roller Cleaning	Print Head Cleaning	PVC, CR80 | Laserable PVC, CR80

smart-70 Printer

Printing	Print Type	Direct Dye-Sublimation
	Print Area	Edge to Edge
	Resolution	300 & 600dpi (Color & Mono), 1200dpi (Mono only)
Card	Card Feeding	Automatic
	Card Size	ISO CR80 (54mm x 86mm / 2.12" x 3.38")
	Card Thickness	0.38mm (15mil), 1.2mm (47mil)
	Card Type	PVC, Composite PVC, PET
Print Speed	Monochrome	3.6 sec./card (1,000 cards/hour)
	YMCKO	Max. 16 sec./card (225 cards/hour)
	YMCKOK	Max. 22 sec./card (164 cards/hour)
Capacity	Input Hopper: Card	500 cards
	Output Hopper: Card	Stacker : 100 cards / *Optional Output Hopper : 500 cards
System	Memory	64MB RAM
	Interface	2 Line LCD / 4 Buttons / 1 LED Indicator
	Supported Platforms	MS Windows 7/ 8 /10, Mac OS, Linux
	Communication	USB, 2 USB Host, Ethernet
	Power	DC 24V, 2A
	Temperature/Humidity	15~35℃ / 35~70%
	Magnetic	ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo), JIS II
Encoding Options	Contactless	MIFARE, ISO 14443 (Type A/ B), ISO 15693, DESFIRE, iCLASS
	Physical Lock	Ribbon
Security	S/W	PC authentication, Password authentication
	Station Itself	Kensington Lock
	Millimeter	240 (W) x 214 (L) x 305 (H)
Dimensions	Inch	9.5 (W) x 8.4 (L) x 12 (H)
Weight	kg/lbs	Approx. 6.3 kg/13.9 lbs

*Print Speed : May change under specific condition.

smart-70 Laminator

Laminating	Type	Direct Heating Lamination
	Speed	19 sec./card (Single-sided Laminating)
Laminating Film	Type	Clear, Holographic
	Thickness	0.6mil, 1.0mil
	Capacity	500 cards/Roll
System	Interface	2 Line LCD / 4 Buttons / 1 LED Indicator
	Communication	USB, RS-232C
	Power	DC 24V, 2.3A
	Temperature/Humidity	15~35℃ / 35~70%
	Physical Lock	Laminating Film
Security	Station Itself	Kensington Lock
	Millimeter	240 (W) x 214 (L) x 305 (H)
Dimensions	Inch	9.5 (W) x 8.4 (L) x 12 (H)
Weight	kg/lbs	Approx. 6.1 kg/13.4 lbs

smart-70 Hybrid Flipper

Encoding Options	Contact	ISO 7816 A/B/C Card, ISO 7816 1/2/3/4 Microprocessor Card
	Contactless	ISO 14443 (Type A/B), Mifare, DEFIRE, iCLASS, ISO 18092(NFC), Felica
Scanner Options	Image Scanner	Selectable 300 & 600 dpi Dual-sided image scannig resolution,
	Scanning Speed	4.5sec/card (300 dpi), 6sec/card (600 dpi)
	Barcode Recognition	1D & 2D Barcode Recognition (Front/Back)
System	Communication	USB
	Power	DC 24V, 2A
	Temperature/Humidity	15~35℃ / 35~70%
	Physical Lock	Encoder or Error Card
Security	Station Itself	Kensington Lock
	Millimeter	110 (W) x 204 (L) x 305 (H)
Dimensions	Inch	4.3 (W) x 8.0 (L) x 12 (H)
Weight	kg/lbs	Approx. 2.8 kg/6.2 lbs. (Without Optional modules)
Error Card Bin Ejection device for faulty card is equipped inside Flipper (Max. 30 cards)		* If encoder or scanner options are not selected, Error Card Bin will be provided.

smart-70 Input/Output Hopper

Capacity	Input / Output	500 or 300 cards Cartridge Selectable
	Feeding	Automatic
Card	Size	ISO CR80 (54mm x 86mm / 2.12" x 3.38")
	Thickness	0.38mm (15mil), 1.2mm (47mil)
	Type	PVC, Composite PVC, PET
Sensor	Residual Q'ty Sensor	Input: Near Empty & Empty / Output: Full Space
	Detection Sensor	Cartridge Mount Status Detectable
System	Communication	USB, RS-232C
	Power	DC 24V, 2A
	Temperature/Humidity	15~35℃ / 35~70%
Security	Physical Lock	Cartridge
	Station Itself	Kensington Lock
Dimensions	Input Hopper (W x L x H)	170 x 204 x 548 mm / 6.7 x 8.0 x 21.6 inch
	Output Hopper (W x L x H)	149 x 204 x 548 mm / 5.9 x 8.0 x 21.6 inch
Weight	Input Hopper (kg/lbs)	Approx. 3.7 kg/8.2 lbs
	Output Hopper (kg/lbs)	Approx. 3.5 kg/7.6 lbs

smart -51 **& 31** Series

Model		Standard Class			Value Class		
		SMART-51S	SMART-51D	SMART-51L	SMART-31S	SMART-31D	SMART-31R
		Single Sided	Dual Sided	Dual Sided & Laminator	Single Sided	Dual Sided	Rewritable
Printing	Print Type	Dye-Sublimation			Dye-Sublimation		Thermal Transfer
	Print Area	Edge to Edge					
	Resolution	300dpi (Color & Mono), 600 & 1200dpi (Mono only)			300dpi (Color & Mono), 600 & 1200dpi (Mono only)		
	Dual Side Printing	Option (with Flipper)	Yes	Yes (Flipper Installed)	Option (with Flipper)	Yes	No
Card	Card Feeding	Automatic					
	Card Size	ISO CR80 or ISO CR79 (Option-Factory installed)			ISO CR80		
	Card Thickness	0.38mm (15mil), 1.0mm (40mil)			0.38mm (15mil), 0.76mm (30mil)		
	Card Type	PVC, PET, Composite PVC	PVC, PET, Composite PVC	PVC, PET, Composite PVC	PVC, PET, Composite PVC	PVC, PET, Composite PVC	Rewritable Thermochromic Material
Print Speed	Monochrome	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	5 sec./card (720 cards/hour)	Max. 12 sec./card (300 cards/hour)
	YMCKO	Max. 17 sec./card (212 cards/hour)	Max. 17 sec./card (212 cards/hour)	Max. 17 sec./card (212 cards/hour)	Max.23 sec./card (156 cards/hour)	Max. 23 sec./card (156 cards/hour)	-
	YMCKOK	-	Max. 22 sec./card (164 cards/hour)	Max. 22 sec./card (164 cards/hour)	-	Max. 29 sec./card (124 cards/hour)	-
Laminating	Mode	-	-	Single & Dual	-	-	-
	Film (Clear & Holographic)	-	-	0.6mil, 1.0mil	-	-	-
	Speed — Simultaneous	-	-	22 sec./card (YMCK)	-	-	-
	(Single Lamination)	-	-	32 sec./card (YMCKK)	-	-	-
	One by One	-	-	43 sec./card (YMCK)	-	-	-
	(Single Lamination)	-	-	53 sec./card (YMCKK)	-	-	-
Capacity	Input Hopper: Card	100 Cards / 200 Cards with cover open			80		
	Output Hopper: Card	Front : 40 Cards / Rear : 100 Cards (Optional Rear-side Stacker)			25		
System	Memory	64MB RAM					
	Display	2 Line LCD			-		
	Control Panel	2 LED Buttons			1 LED Button		
	Supported Platforms	Microsoft Windows 7/ 8 /10, Mac OS, Linux					
	Communication	USB / Ethernet, WiFi (Option)			USB / Ethernet (Option)		
	Power Supply	DC 24V					
	Power Consumption	48	48	96	48	48	48
	Temperature/Humidity	15~35℃ / 35~70%					
Dimensions	Millimeter (WxLxH)	165 x 390 x210	165 x 498 x 210	165 x 675 x 210	172 x 377 x 190	172 x 472 x 190	172 x 377 x 190
	Inch (WxLxH)	6.5 x 15.4 x 8.3	6.5 x 19.6 x 8.3	6.5 x 26.6 x 8.3	6.8 x 14.8 x 7.5	6.8 x 18.6 x 7.5	6.8 x 14.8 x 7.5
Weight	Kg/lbs	4.5 / 10	5.2 / 11.5	8.8 / 19.4	3.4 / 7.5	4.2 / 9.5	3.4 / 7.5
Encoding Options	Magnetic	ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo), JIS II					
	Contact	ISO 7816 (ID-1)					
	Contactless	MIFARE, ISO 14443 (Type A/ B), ISO 15693, DESFIRE, iCLASS					
Certifications	Certifications	CB, CE, FCC, KC, CCC			CB, CE, FCC, KC, CCC		

*__Print Speed__ : May change under specific condition.

Specifications and availability may change without notice.

smart-70X & WISE-LE

Model		SMART-70X	WISE-LE
Laser Engraving	Laser Type	6W Air-Cooled DPSS Laser, ND:YAG	
	Resolution	1200dpi	
	Scanning	Raster & Vector Scanning	
	Engraving Mode	Single or Dual-sided Laser Engraving	
	Speed	103 cards/hour (Single-sided Laser engraving only)	
	Warranty	20,000 hours	
Card	Card Feeding	Automatic, Manual	
	Card Size	ISO CR80 (54mm x 86mm / 2.12"x 3.38")	
	Card Thickness	0.76mm (30mil)	
	Card Type	Laserable PVC, PC (Polycorbonate) Card	
Capacity	Input Hopper	Max. 500 Cards (Optional : SMART-70 Input Hopper)	-
	Output Hopper	Max. 500 Cards (Optional : SMART-70 Output Hopper)	-
	Error Card Bin	Max. 20 Cards	
System	Display	LCD & LED	LCD & LED
	Control Panel	4 Buttons	4 Buttons
	Vision Camera	Laser Engraving Monitoring	
	Supported Platforms	Microsoft Windows 7/ 8/ 10	
	Communication	USB	
	Power Supply	100V to 220V ±10%	
	Temperature/Humidity	10~30℃ / 20~80%	
Security	Physical Lock	Laser System, Error Card Bin	
Options	Magnetic	ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo), JIS II	-
	Contact	ISO 7816 A/B/C Card, ISO 7816 1/2/3/4 Microprocessor Card	-
	Contactless	MIFARE, ISO 14443 (Type A/ B), ISO 15693, DESFIRE, iCLASS	-
	CLI (Changeable Laser Image)	Yes	-
	MLI (Multiple Laser Image)	-	Yes
Dimensions	Millimeter (WxLxH)	450 x 230 x 425	246 x 447 x 516
	Inch (WxLxH)	17.7 x 9.1 x 16.7	9.7 x 17.6 x 20.3
Weight	Weight	Approx. 25 kg (55 lbs)	Approx. 25 kg (55 lbs)
Laser Safety		IEC-60825-1 CLASS 1 Standard	

*__Print Speed__ : May change under specific condition.

Specifications and availability may change without notice.

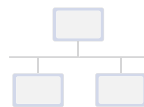# IDEAL SOLUTION FOR PRINTING HIGH-QUALITY ID CARDS IN MOMENTS

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