

# smart 70

Whatever you want or need!



Input Hopper



Printer



Hybrid Flipper



Laminator



Output Hopper



Full Modular



## Large Capacity, High speed Printing, Flexibility, High Durability, Scratch Free, Ideal for KIOSK



Large Capacity



Flexibility



High Durability



High Speed Printing

SMART-70 Series the large capacity card printer from IDP is ideally suited to users who have large capacity needs, or for end-users who would like to secure their credential media in the securely locked printer. The SMART-70 Series offers a unique modular design that is easily upgraded by the end-user. Configurations vary from single sided only printing to a fully configured system with dual sided printing, lamination and 500 cards output hopper.

The easily upgradeable: the printer offers a simple no-tool upgrade strategy that any dealer or IT technician would be able to manage in minutes. Saving maintenance time for replacing ribbon and laminating patch : 500 card ribbon and laminating patch are provided to match the capacity of the input hopper.

Each station (printer, hybrid flipper, laminator, in & out hoppers) connects with an alignment plate. Each station has its own power supply and communication cables are provided to connect each station and synchronize their operation.



### ISSUANCE

Smart ID ensures appropriate card issuance and data management with SMART series printers at no extra cost.

- 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.



### SECURITY

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

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.



### NETWORKING

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

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.



## FEATURES

### 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

### 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



### Input Hopper

- Large Capacity
- Max. 500 cards
- Scratch Free
- Hook for Card-In
- Residual Q'ty Sensor
- Near empty & empty alert notifications
- High Durability / Indicator LED
- Physical Lock & Kensington Lock

### Printer

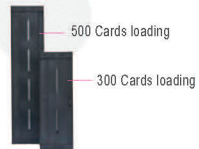
- High Speed Printing
- Max. 1,000 cards/h (Mono), Max. 225 cards/h (YMCKO)
- Enhanced FINE™ Imaging Technology
- Drawer type film cartridge
- Installable MS & Contactless Encoder
- LCD & Button / Indicator LED
- High Durability
- Physical Lock & Kensington Lock

### 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

### Stacker

Max. 100 cards



\* If encoder or scanner options are not selected, Error card bin will be provided.

## Multi - Printer Combination



**364 cards/hour**  
Partial Area Printing (YMCKO)



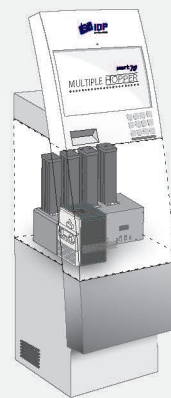
**288 cards/hour**  
Full Area Printing (YMCKO)

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



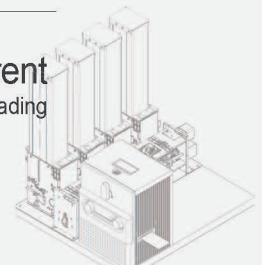
\* For Single sided Partial area or Full area Color Printing

## Multiple Hopper Ideal for KIOSK



max. **"3,000"**  
cards loading

up to **"6"**  
different  
type cards loading



## Stand-alone Laminator



No Need Device Driver or PC

## Scratch Free

### - Input Hopper

To disperse the weight of the stacked cards, the card mallet pushes cards to the weight dispersion point and the lowest card is drawn out by hook. This process prevents the stacked cards from making scratches on the lower cards' surface.

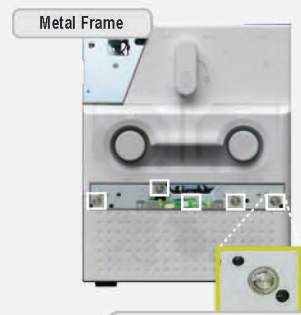
Weight dispersion point



### - Output Hopper

When a card is put in the output hopper, to protect the card's surface, the loaded cards are raised by the support beam which is operated by the internal CAM.

## High Durability



|                  |                  |                             |  |                            |   |
|------------------|------------------|-----------------------------|--|----------------------------|---|
| SMART-70 Printer | Printing         | Print Type                  | Direct Dye-Sublimation   |                            |   |
|                  |                  | Print Area                  | Edge to Edge   | Resolution                 | 300dpi  |
|                  | 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         | Microsoft Windows 2000/ 2003/ XP/ Vista/ 7/ 8/ 10, Mac OS, Linux |                            |   |
|                  |                  | Communication               | USB, 2 USB Host, Ethernet  | Power Supply               | Free voltage (AC 100/ 220V, 50~60Hz)                      |
|                  |                  | Power Consumption           | 24V, 2A  | Temperature/Humidity       | 15~35°C / 35~70%  |
|                  | Encoding Options | Magnetic                    | ISO 7811 (Track I, II, III Read/Write, HiCo/ LoCo), JIS II       | Contactless                | MIFARE, ISO 14443 (Type A/B), ISO 15693, DESFIRE, iCLASS  |
|                  | Security         | Physical Lock               | Ribbon   | S/W                        | PC authentication, Password authentication                |
|                  |                  | Station Itself              | Kensington Lock  |                            |   |
| Dimensions       | Millimeter       | 240 (W) x 214 (L) x 305 (H) | Inch   | 9.5 (W) x 8.4 (L) x 12 (H) |   |
| Weight           | kg/lbs           | Approx. 6.3 kg/13.9 lbs     |  |                            |   |

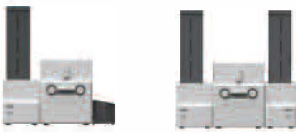
|                        |                             |                        |   |                      |   |  |
|------------------------|-----------------------------|------------------------|---|----------------------|---|--|
| SMART-70 Hybrid Hopper | Encoding & Scanner (Option) | Contact                | ISO 7816 A/B/C Cards, ISO 7816 1/2/3/4 Microprocessor Cards | Contactless          | ISO 14443 (Type A/B), MIFARE, DESFIRE, iCLASS, ISO 18092(NFC), Felica |  |
|                        |                             | Image Scanner          | Selectable 300 & 600 dpi Dual-sided image scanning          |                      | Scanning Speed  | 4.5 sec./card (300 dpi), 6 sec./card (600 dpi) |
|                        |                             | Barcode Recognition    | 1D & 2D Barcode Recognition (Front/Back)                    |                      |   |  |
|                        | System                      | Communication          | USB   | Power Supply         | Free Voltage (AC 100/ 220V, 50~60Hz)                                  |  |
|                        |                             | Power Consumption      | 24V, 2A   | Temperature/Humidity | 15~35°C / 35~70%  |  |
|                        | Security                    | Physical Lock          | Encoder   | Station Itself       | Kensington Lock   |  |
|                        | Dimensions                  | Millimeter             | 110 (W) x 204 (L) x 305 (H)                                 | Inch                 | 4.3 (W) x 8.0 (L) x 12 (H)  |  |
| Weight                 | kg/lbs                      | Approx. 2.8 kg/6.2 lbs |   |                      |   |  |

|                    |                 |                         |   |                      |  |  |
|--------------------|-----------------|-------------------------|---|----------------------|--|--|
| 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 Supply            | Free Voltage (AC100/220V,50~60Hz) / 24V, 2.3A | Temperature/Humidity | 15~35°C / 35~70%                       |  |
|                    | Security        | Physical Lock           | Laminating Film                               | Station Itself       | Kensington Lock                        |  |
|                    | Dimensions      | Millimeter              | 240 (W) x 214 (L) x 305 (H)                   | Inch                 | 9.5 (W) x 8.4 (L) x 12 (H)             |  |
| Weight             | kg/lbs          | Approx. 6.1 kg/13.4 lbs |   |                      |  |  |

|                              |                       |                          |  |                           |   |  |
|------------------------------|-----------------------|--------------------------|--|---------------------------|---|--|
| SMART-70 Input/Output Hopper | Capacity              | Input / Output           | Max. 500 cards                                 | Feeding                   | Automatic                                 |  |
|                              | Card                  | Size                     | ISO CR80 (54mm x 86mm / 2.12" x 3.38")         |                           |   |  |
|                              | Sensor                | Thickness                | 0.38mm (15mil), 1.2mm (47mil)                  |                           |   |  |
|                              |                       | Residual Q'ty Sensor     | Input: Near Empty & Empty / Output: Full Space | Detection Sensor          | Cartridge Mount Status Detectable         |  |
|                              | System                | Communication            | USB, RS-232C                                   | Power                     | Free Voltage (AC100/220V,50~60Hz)/24V, 2A |  |
|                              |                       | Temperature/Humidity     | 15~35°C / 35~70%                               |                           |   |  |
|                              | Security              | Physical Lock            | Cartridge                                      | Station Itself            | Kensington Lock                           |  |
|                              | Dimensions            | Input Hopper (W x L x H) | 170 x 204 x 548mm / 6.7 x 8.0 x 21.6 inch      | Output Hopper (W x L x H) | 149 x 204 x 548mm / 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    |   |  |

\*Print Speed : May change under specific condition.

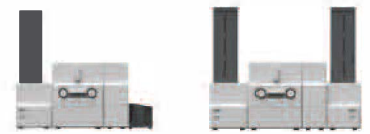
• Single sided Printing



• Single sided Printing & Laminating



• Dual sided Printing, Encoding



• Dual sided Printing, Encoding & Laminating



• Single sided Multi-Printing /  
• Dual sided Multi-Printing, Laminating & Encoding



• Stand-alone Laminating

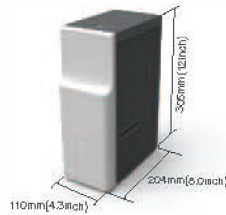


Dimensions

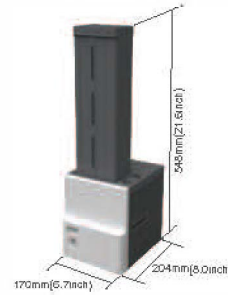
Printer & Laminator



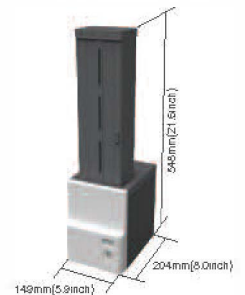
Hybrid Flipper



Input Hopper



Output Hopper



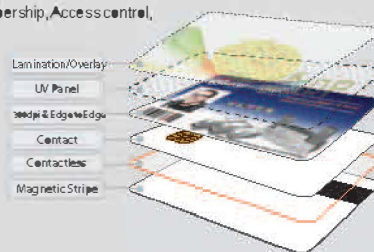
Consumables

| COLOR RIBBONS  |  |   |   |  | SECURITY FILMS   |   |   |
|--|--|---|---|--|--|---|---|
| <p>YMCKO</p> <p>Full Color Ribbon with Resin Black &amp; Overlay</p> <p>500 Cards/Roll</p> | <p>YMCKOK</p> <p>Full Color Ribbon with Resin Black, Overlay &amp; Black for back Side</p> <p>500 Cards/Roll</p> | <p>YMCFKO</p> <p>Full Color Ribbon with UV Panel, Resin Black and Overlay</p> <p>500 Cards/Roll</p> | <p>HYMCKO</p> <p>Half Panel Size Color Ribbon with Resin Black and Overlay</p> <p>1000 Cards/Roll</p> | <p>YMC</p> <p>Full Color Ribbon</p> <p>1000 Cards/Roll</p> | <p>CPF</p> <p>Clear Patch Film</p> <p>500 Cards/Roll</p> | <p>HPF</p> <p>Hologram Patch Film</p> <p>500 Cards/Roll</p> |   |
| MONO RIBBONS   |  |   |   |  |  |   |   |
| <p>KO</p> <p>Black with Overlay</p> <p>1500 Cards/Roll</p>                                 | <p>K</p> <p>Black</p> <p>3000 Cards/Roll</p>   | <p>W</p> <p>White</p> <p>3000 Cards/Roll</p>  | <p>B</p> <p>Blue</p> <p>3000 Cards/Roll</p>   | <p>R</p> <p>Red</p> <p>3000 Cards/Roll</p>                 | <p>MG</p> <p>Metallic Gold</p> <p>3000 Cards/Roll</p>    | <p>MS</p> <p>Metallic Silver</p> <p>3000 Cards/Roll</p>     | <p>SO</p> <p>Scratch-Off</p> <p>3000 Cards/Roll</p> |

**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 ID, Membership, Access control, Government ID, Healthcare and Banking cards.

IDP Corporation has begun a new era in ID Card printers. Please come and experience the flexibility and quality of the SMART series.



**IRIS**  
RETHINKING IDENTIFICATION

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