# smart 81D

## Print Now.
## Print More.

### New Trusted Identity Begins

Experience next-generation performance with the SMART-81D, the industry's fastest retransfer card printer. Powered by our exclusive Rapid Retransfer Printing (RRP) technology, the SMART-81D goes from power-on to "Fastest First Card Out" in just seconds—eliminating long warm-up times common in older retransfer printers.

Delivering ultra-sharp, high-resolution images with rich, deep colors and true edge-to-edge (full-bleed) coverage, the SMART-81D is ideal for high-security credentials, bank cards, and technology cards that demand premium print quality.

RRP technology from IDP offers power-on and Fastest First Card Out. The SMART-81D produces higher quality, sharper-looking images than traditional card printers. It is the perfect choice for demanding applications that require deep dark colors with infinity-edge (full-bleed) graphics on blank or technology cards.

The input card hopper holds up to 200 cards and physical security features allow you to secure your printer, its supplies, and ejected cards in instant bank card issuance or high-security applications.

### Features

- Fastest First Card Out – Industry-leading speed
- High-Capacity Input – 200-card hopper for uninterrupted high-volume printing
- Infinity Edge Printing – Stunning full-bleed image quality with rich, vibrant detail
- Dust-Resistant Design – Smart airflow system reduces defects caused by dust
- Option Banking Security – Designed to meet advanced security and compliance needs
- Durable & Modern – Engineered for performance with a sleek, robust design

## IDP

### Issuance

SMART IDesigner ensures accurate card issuance and data management with your SMART series of printers. This application offers simple design tools to allow the user to create a truly customized card within minutes. SMART IDesigner offers advanced user tools such as database connections, camera and signature scanners, plug-in support, as well as smart card reading and encoding.

- 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 a plug-in program

### Security

The SMART series printers come with highly effective and tested physical and electronic security features.

- PASSWORD verification with administrator and user authentications
- PC AUTHENTICATION locks the SMART printer to a specific PC to render it useless if stolen
- DATA ENCRYPTION over USB and SSL (secure socket layer) over Ethernet
- PHYSICAL LOCKS are standard on the SMART-70 and an optional feature on the SMART-51 Series
- Ethernet - SNMPv3

### Networking

The SMART series offers "single-wire" printing and encoding.

- The SMART Ethernet module can not only print over your network, but can also be configured to encode a magnetic stripe, contact IC chips, and contactless smart cards over your network
- The SMART Ethernet module can be configured to accept "open card protocol" print commands for direct printing without a driver

## Printing

| | |
|---|---|
| Print Type | Dye-Sublimation / Resin Thermal Retransfer |
| Print Area | Dual-Sided/Over-the-Edge |
| Resolution | 300dpi/600dpi |

## Print Speed

| | |
|---|---|
| Monochrome | Max. 25 sec./card (144 cards/hour) |
| YMCKK | Max. 43 sec./card (84 cards/hour) |

## System

| | |
|---|---|
| Display | 2 Line Graphic LCD Indicator / 4 Buttons |
| Supported Platforms | Windows 10/11, Mac OS, Linux |
| Communication | USB, Ethernet (Option) |
| Power Supply | 100-240V~ 50/60Hz 2.5A |
| Temperature/Humidity | 15~35ºC/35~70% |

## Certifications

CB CE FC IC C

## Card

| | |
|---|---|
| Card Feeding | Automatic |
| Card Size | ISO CR80 (54mm x 86mm/2.12" x 3.38") |
| Card Thickness | 0.76mm (30mil) ~ 1.6mm (64mil) |
| Card Type | PVC, PET, Composite PVC |

## Capacity

| | |
|---|---|
| Input Hopper | 200 Cards |
| Output Hopper | 100 Cards |

## Dimensions

| | |
|---|---|
| Millimeter (WxDxH) | 460 x 224 x 310 |
| Inch (WxDxH) | 18.1 x 8.8 x 12.2 |

## Weight

| | |
|---|---|
| Kg/lbs | 11.4 / 25.13 |

## Encoding Options

| | |
|---|---|
| Magnetic | ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo) |
| Contact | ISO 7816 (ID-1) |
| Contactless | ISO 14443 (Type A/ B), ISO 18092(NFC), MIFARE, DESFIRE |
| Security | Physical & Electronic Locking System |

## Consumables

**Color Ribbons**

YMCK
Full Color Ribbon with Resin Black
500 Cards/Roll

YMCKK
Full Color Ribbon with Resin Black & Resin Black for Back Side
500 Cards/Roll

**Retransfer Film**

Retransfer Film
500 Cards/Roll

**Ribbon & Film Package**

YMCK & Retransfer Film
Full Color Ribbon with Resin Black & Retransfer Film
500 Cards/Roll

310mm (12.2 inch)
224mm (8.8 inch)
460mm (18.1 inch)

*Optional SMART-81L Lamination Add-On for SMART-81 Series Card Printers

| | |
|---|---|
| 653637 | **SMART-81D 300dpi** |
| 653538 | **Magnetic Stripe Enc. Standard** |
| 653539 | **Contact SmartCard Enc.** |
| 653540 | **Contactless SmartCard Enc.** |
| 653708 | **Contact IC (ISO 7816 ID-1) & Contactless** |
| 653547 | **YMCK & Retransfer Film Pack** |
| 653378 | **YMCKK (no film included)** |
| 653379 | **YMCFK (no film included)** |
| 653431 | **Retransfer INTM Film (no ink included)** |
| 653629 | **Clear 1mil Laminate Film** |
| 900849 | **Globe Flags Hologram 1 mil Film** |
| 653630 | **Celestial Hologram 1 mil Film** |
| 653631 | **Clear IC Chip, 1mil Film** |

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*Warranty covers printers, print heads up to 20,000 prints, laminators, encoders, parts, and labor for the period of three years. Advance Replacement may apply. *Note - SMART-81 offers a life-time print head warranty.*

**www.idpamericas.com**