smart 52L

iDP

DTC LAMINATING
ID CARD PRINTER

Mid- to High-Volume Printing & Lamination
Faster, Smarter, Built to Protect



New Features

- **30% Faster Output** 280 cards/hour YMCKO
- **LCD Touchscreen Interface**
- **Integrated Lamination** Clear or holographic card protection
- **Extended Ribbon Capacity** 40% larger ribbon
- **High Volume Printing** 350 cards/roll & 200 cards loading
- **Brilliant, Consistent Color,** Excellent Image Reproduction
- **New multi-core CPU & 8x larger memory** (512MB RAM)
- **Top-Side Mag. Encoding**

SMART-52L

- Metal-Framed, Duplex Card Printer & Laminator
- Fast, Quiet Printing with User-Friendly Touchscreen
- Integrated Lamination for Added Security & Durability
- FINE™ Imaging Technology
- Industry's Fastest Laminator (8-secs*)
- Best-In-Class Warranty: 3-year Advanced Exchange

Reliable Performance. Lasting Credentials.

Introducing the **SMART-52L ID Card Printer & Laminator**—re-engineered to deliver faster performance, smarter control, and secure, durable credentials through integrated printing and lamination.

Built on the proven SMART-51 Series, the SMART-52L combines a durable metal frame, an 8-second heat-up time, a multi-core CPU, and eight times the RAM for 30% faster printing and consistent quality. Its touchscreen LCD provides direct control of printer settings and diagnostics without a connected PC.

The 350-print YMCKO ribbon offers 40% more capacity, reducing changeovers and cost per card. Standard USB and Ethernet, multi-platform utility, and optional encoding simplify integration. Clear or holographic lamination protects cards against wear and tampering, with single- or dual-sided lamination available.



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 tools such as internal database, camera and signature capture plug-in support, as well as smart card reading and encoding.

- Design & print (Image, Photo, and Text)
- 1D, 2D, and QR Code Barcode printing
- Automatic portrait detection, sizing, and positioning
- Sequential number printing
- Card design templates
- Camera, scanner, and signature-pad plug-ins
- Convenient card issuance and data management
- Magnetic stripe, contact, and contactless encoding via compatible plug-ins

Security

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

- **PASSWORD** protection with administrator and user authentication
- **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** available for the input hopper, ribbon, and laminate film
- **SNMPv3** support over Ethernet

Networking

Standard **built-in Ethernet and USB connectivity** makes the SMART-52 easy to integrate into your issuance environment.

- **"Single-wire" printing and encoding** lets you print cards and encode magnetic stripes, contact chips, and contactless smart cards over your network when equipped with optional encoding modules.
- The **SMART Ethernet** module can be configured to accept " open card protocol" print commands for direct printing without a driver.

Technical Specifications

SMART-52L Laminating ID Card Printer



PRINTING

Print Type	Direct-to-Card (DTC) / Dye-Sublimation
Print Area	Dual-Sided / Edge-to-Edge
Print Type	300dpi (color), 600, 1200dpi (mono only)

PRINT SPEED

Monochrome	Max. 1000 cards/hour
YMCKO	Max. 280 cards/hour
YMCKOK	Max. 200 cards/hour

LAMINATING

Mode	Single & Dual-Sided
Film (Clear/Holographic)	0.6mil, 1.0mil
Simultaneous (Cards/Hour)	YMCK Max. 160 | YMCKK Max. 130
One by One (Cards/Hour)	YMCK Max. 125 | YMCKK Max. 100

SYSTEM

Memory	512MB RAM (additional 4GB w/ gender board)
Display & Control	Full-Color LCD Touchscreen
Supported Platforms	Microsoft Windows 10 & 11; macOS; Linux
Communication	USB, built-in Ethernet, and optional Wi-Fi
Power Supply	DC 24V
Power Consumption	96W
Temp./Humidity	15~35°C/35~70%

CARD

Card Feeding	Automatic
Card Size	ISO CR80 or ISO CR79 (Option-Factory Installed)
Card Thickness	0.38mm (15mil) to 1.0mm (40mil)
Card Type	PVC, PET/PVC Composite, Glossy Printable

CAPACITY

Input Hopper	100 / 200 cards with cover open
Output Hopper	Front 40 cards / Rear 100 cards (Option rear stacker)

DIMENSIONS

Milimeter (WxLxH)	165 x 675 x 210
Inch (WxLxH)	6.5 x 26.6 x 8.3

WEIGHT

Kg/lbs	8.8 / 19.4

ENCODING OPTIONS

Magnetic	IS07811 (Track I,II,III Read/Write, HiCo/LoCo), JIS II
Contact	IS0 7816 (ID-1)
Contactless	MIFARE, ISO 14443 (Type A/B), IS0 15693 DESFIRE, iCLASS

CERTIFICATIONS

CB CE FC

654220 **SMART-52L**
654213 **SMART Wi-Fi Kit**
654130 **Magnetic Stripe Enc. Standard**
654152 **Magnetic Stripe Enc. Upper**
654131 **Contact SmartCard Enc. (Internal)**
654235 **Contactless SmartCard Enc.**
900714 **Dual-Frequency Encoder**
654136 **Laminator with Flipper Assembly**
659910 **Rear Exit Card Stacker (100 cards)**

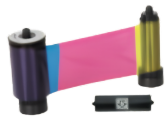


Consumables

Ribbons & Film

Color Ribbons

654013 | YMCKO



350 CARDS/ROLL
Full Color Ribbon with Resin Black & Overlay

654014 | YMCKOK



300 CARDS/ROLL
Full Color Ribbon with Resin Black & Overlay & Black for Back Side

654015 | HYMCKO



500 CARDS/ROLL
Full Color Ribbon with UV Panel, Resin Black and Overlay

654016 | YMCFKO



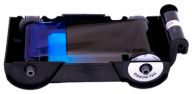
300 CARDS/ROLL
Half Panel Color Ribbon with Resin Black and Overlay

900911 | YMCKO EZ Kit



350 CARDS/ROLL
Full Color Ribbon with Resin Black & Overlay

900912 | YMCKOK EZ Kit



300 CARDS/ROLL
Full Color Ribbon with Resin Black & Overlay & Black for Back Side

654047 | YMCPKO



200 CARDS/ROLL
Full Color Ribbon with Resin Black & Overlay & Black for Back Side

Monochrome Ribbons

654018 | KO



600 CARDS/ROLL
Black with Overlay

654038 | K



1200 CARDS/ROLL
Black

654039 | W



1200 CARDS/ROLL
White

Coming Soon | B



1200 CARDS/ROLL
Blue

654040 | R



1200 CARDS/ROLL
Red

654041 | MG



1200 CARDS/ROLL
Mettalic Gold

654042 | MS



1200 CARDS/ROLL
Mettalic Silver

654043 | SO



1200 CARDS/ROLL
Scratch-Off

Laminate & Security Films

900889 | CPF



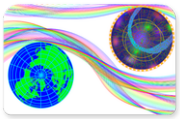
250 CARDS/ROLL
Clear Patch Film

900888 | HPF



250 CARDS/ROLL
Hologram Patch Film
Globe Flags

900890 | HPF



250 CARDS/ROLL
Hologram Patch Film
Celestial

900892 | HPF



250 CARDS/ROLL
Hologram Patch Film
Secure Globe

900891 | HPF



250 CARDS/ROLL
Hologram Patch Film
Genuine Medical

900898 | HPF



250 CARDS/ROLL
Hologram Patch Film
Law Enforcement

900897 | HPF



250 CARDS/ROLL
Hologram Patch Film
Fire Rescue

IDP Americas, Inc.

1485 South County Trail - Unit 306,
East Greenwich, RI 02818
TEL +1.401.400.7111
FAX +1.401.667.7445
E-MAIL sales@idpamericas.com

IDP Corp., Ltd.

#601, 50, Digital-ro 33-gil,
Guro-gu, Seoul, Korea, 08377
TEL +82.2.6099.3700
FAX +82.2.6099.3717
E-MAIL sales@idp-corp.com

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.

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