High printing performance for your dual-sided ID cards

For dual-sided printing, the SMART-50D is ultra-fast, produces high-quality images, and offers an easy upgrade to lamination. Supporting either color or monochrome printing, it is the ideal solution for mid-to-high volume ID card production requirements.

The SMART-50D offers a wide variety of optional features including magnetic encoder, contact and contactless smart card encoders making it ideal for many applications in a variety of environments.

- Single or Dual Sided Printing
- Print Speed: 27 sec./card (YMCKOK)
- 300dpi with Edge-to-Edge Printing
- 50S Field Upgradable to 50D
- 2 Lines LCD with 2 LED Buttons for Front Operation
- Low Cost Security with UV Printing
- Installable Encoders: MS, Contact & Contactless, SIM
- Upgradable Modules: Laminator & Ethernet

SMART Applications ensure proper card issuance and data management with SMART series printers at no extra cost.

SMART Design
- Design and Print (Images, Photos, Texts, etc.)
- 1D & 2D Barcode printing
- Auto portrait
  (Auto face detection & adjustment of size & position)

SMART DB
- Convenient issuance of cards and data management
- Supports ODBC (Open Database Connectivity)
- Magnetic stripe (MS), contact & contactless smart card encoding by using plug-in program

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.

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 for contact & contactless smart cards by Ethernet.

For dual-sided printing of ID cards:
- Employee ID cards
- Student ID cards
- Payment cards
- Health cards
- Leisure resort pass cards
- Identification cards
- Transport pass cards
- Loyalty cards
- Event cards
### Specifications

#### PRINTING
<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Type</td>
<td>Dye-Sublimation</td>
</tr>
<tr>
<td>Print Area</td>
<td>Edge to Edge</td>
</tr>
<tr>
<td>Resolution</td>
<td>300dpi</td>
</tr>
<tr>
<td>Dual Sided Printing</td>
<td>Dual Sided Printing</td>
</tr>
</tbody>
</table>

#### CARD
<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card Feeding</td>
<td>Automatic</td>
</tr>
<tr>
<td>Card Size</td>
<td>ISO CR80 (54mm x 86mm / 2.12” x 3.38” )</td>
</tr>
<tr>
<td>Card Thickness</td>
<td>0.38mm (15mil), 1.0mm (40mil)</td>
</tr>
<tr>
<td>Card Type</td>
<td>PVC, PET, Composite PVC</td>
</tr>
</tbody>
</table>

#### PRINT SPEED
<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monochrome</td>
<td>5 sec./card (720 cards/hour)</td>
</tr>
<tr>
<td>YMCKO</td>
<td>22 sec./card (164 cards/hour) Max, 18 sec./card (220 cards/hour)</td>
</tr>
<tr>
<td>YMCKOK</td>
<td>28 sec./card (130 cards/hour) Max, 24 sec./card (150 cards/hour)</td>
</tr>
</tbody>
</table>

#### CAPACITY
<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Hopper</td>
<td>100 cards</td>
</tr>
<tr>
<td>Output Hopper</td>
<td>40 cards</td>
</tr>
</tbody>
</table>

### Consumables

#### COLOR RIBBONS
- YMCKO: Full Color Ribbon with Resin Black & Overlay
  - 250 Cards/Roll
- YMCKOK: Full Color Ribbon with Resin Black, Overlay & Black for Back Side
  - 200 Cards/Roll
- YMCFKO: Full Color Ribbon with UV Panel, Resin Black and Overlay
  - 200 Cards/Roll
- HYMCKO: Half Panel Size Color Ribbon with Resin Black and Overlay
  - 350 Cards/Roll

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

### Part Numbers:

- SMART-50D: 650842
- SMART-50DN (Eth): 650858
- SMART-50DM (Mag): 650849
- SMART-50DMN (Eth/Mag) 650865

#### Contactless Enc. (USB):
- 650423

#### Contactless Enc. (Eth):
- 651065

#### Contact IC Enc.:
- 650421

- YMCKOK, 200/cards: 650637
- YMCKO, 250/cards: 650634
- Black Resin, 1200 cards: 650653

Add “K” to any printer part number for a kit (1 YMCKO Ribbon, 1 100pk Cards, & 1 Long Cleaning Card)

### System
- Memory: 64MB RAM
- Display: 2 Line LCD
- Control Panel: 2 LED Buttons
- Supported Platforms: Microsoft Windows 2000/ 2003/ XP/ Vista/ 7/ 8,
  Mac OS, Linux
- Communication: USB, Ethernet (Option)
- Power Supply: Free Voltage (AC100/ 200V, 50–60Hz)
- Power Consumption: 48
- Temperature/Humidity: 15–35°C / 35–70%

### Dimensions
- Millimeter (WxLxH): 170 x 510 x 195
- Inch (WxLxH): 6.7 x 20.0 x 7.7

### Weight
- Kg/lbs: 5.5 / 12

### Encoding Options
- Magnetic: ISO7811 (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
- CB
- CE
- FCC
- RoHS

Specifications and availability may change without notice.