

**NEW!**

THE NEXT GENERATION OF FARGO INNOVATION



# HDP600

HIGH DEFINITION CARD PRINTER/ENCODER

*The printer/encoder of choice for government, corporate and other high-security card applications.*



**FARGO**<sup>®</sup>

Card Identity Solutions

FARGO®

# HDP600

HIGH DEFINITION CARD PRINTER/ENCODER







## High-Security Cards Demand

*When it comes to printing, encoding and laminating*

### There's simply no better way to produce high-security cards with embedded electronics.

Today's security-conscious organizations demand cards with superior intelligence and functionality. However, the embedded electronics that make these high-security cards robust also cause irregularities on their surfaces — making them hard to print.

With Fargo's HDP600 High Definition Card Printer/Encoder, high-security cards are no longer hard to print. Featuring our patented High Definition Printing™ (HDP®) technology, the HDP600 is the only card printer/encoder that can consistently and perfectly print, encode and laminate technology-rich ID cards, such as:

- |   |  |
|---|--|
|  CONTACT SMART CARDS     |  RFID CARDS           |
|  CONTACTLESS SMART CARDS |  WIEGAND CARDS        |
|  PROXIMITY CARDS         |  OPTICAL MEMORY CARDS |

### Don't compromise when your security is at stake.

With traditional dye-sublimation printers, the printhead comes in contact with the card it's printing. Unfortunately, this means these printers can't consistently print on the ridges and indentations caused by internal RFID antenna, integrated circuits and smart chips. Even worse, the card's electronics can get damaged by, or damage, the printhead.

With High Definition Printing, however, there's never any contact between the printhead and card. Instead, the HDP600 prints images onto the underside of the HDP

Film, which is then fused flush to the card through heat and pressure. Now you can consistently print over surface irregularities — even to the edge of a smart chip — without damaging the card's electronics or your printhead.

### Save time (and more!) by printing and encoding all in one pass.

Printing and encoding cards in more than one pass puts you at risk. If cards aren't rerun in the proper order, vital information could get encoded on the wrong card. The HDP600 eliminates that worry by letting you print and encode high-security cards in one pass.

### Add lamination for an extra layer of protection.

Want your cards to have the ultimate in security? Then add a lamination module to your HDP600. Our patented clear and holographic PolyGuard™ Overlaminates provide the maximum protection from tampering, counterfeiting and everyday wear and tear. They can also save you money by reducing the need to issue replacement cards.

### Make your budget go farther with our next generation modular design.

It's difficult to know what type of card functionality you might need in the future. That's why Fargo lets you add encoding and laminating modules to your HDP600 at any time. Order an HDP600 custom fit to your needs today (i.e., mag stripe encoding only). Then, rest easy knowing you can add a proximity card encoder, smart card encoder or lamination module tomorrow.

### Sophisticated? Yes. Complicated? No.

Thanks to Fargo's advanced engineering, the HDP600 isn't just highly capable, it also sets new standards for user-friendliness and reliability. That's why it's the most dependable choice for security-conscious organizations like yours.

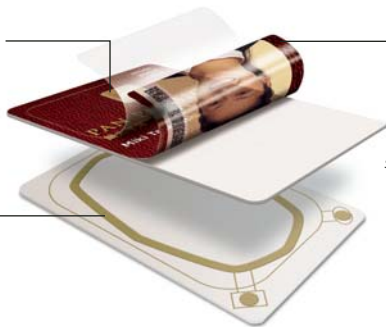


*Fargo's High Definition printer/encoders can easily print to the edge of a smart chip.*



*Traditional dye-sub printers cannot.*

*Embedded electronics like smart chips and proximity coils cause hard-to-print ridges and indentations on the surface of cards.*



*Because the HDP600 prints on an HDP Film instead of directly on the card, it prints consistently over surface irregularities — without damaging the embedded electronics or the printhead.*

**The only choice for high-security card applications.** The HDP600 prints and encodes/reads up to three different technologies (including contact smart cards, contactless smart cards and proximity cards), plus a magnetic stripe all within a single card.

**Contact an authorized Fargo integrator today about the HDP600 High Definition Card Printer/Encoder.**

# High Definition Printing!

cards with embedded electronics, nothing outperforms the Fargo HDP600.



**Increase the security and durability of your cards.**  
Our optional lamination module lets you add a clear or holographic PolyGuard Overlaminates to your cards for unsurpassed protection.



**Never run out of ribbon or cards mid-job again.**  
Our SmartScreen™ LCD tells you what buttons to press, when to load supplies and keeps you up to speed on your print job.



**Stop struggling with temperamental ribbons.**  
Fargo's color-coded ribbons are easy and intuitive to install.



**Complete jobs faster.**  
The Dual Card Hopper lets you load up to 200 identical cards, or print and encode two different types of cards simultaneously.



**Take the guesswork out of printing cards.**  
The HDP600 automatically routes defective cards into this handy Reject Card Hopper (available only with lamination module).



**Increase productivity and decrease errors.**  
Save time and avoid mistakes by printing and encoding your cards in one easy pass.



**Get the best quality cards possible.**  
Fargo's High Definition Printing technology is the only technology that can consistently and perfectly print and encode high-security cards with embedded electronics.



**Make your budget go farther.**  
Only Fargo gives you the option of adding encoding or laminating modules to your printer as your needs grow.



**Save money and waste fewer cards.**  
A Tape-based Card Cleaning System removes dust and debris from cards, improving quality and reducing card waste.



Why do governments, corporations and other security-conscious organizations depend on High Definition Printing?

**IT'S RELIABLE** – Only Fargo's High Definition Printing technology prints consistently and perfectly on cards with embedded electronics.

**IT'S SECURE** – High Definition Printing technology helps prevent card tampering and security breaches.

**IT'S SMART** – You can increase productivity and decrease errors by printing, encoding and laminating cards all in one pass.

**IT'S COST-EFFECTIVE** – Add lamination or encoding modules to your HDP600, instead of having to purchase a new printer.

**IT'S USER-FRIENDLY** – Color-coded ribbons and a SmartScreen LCD help make producing high-security cards easier than ever.

**IT'S COMPATIBLE** – The HDP600 easily integrates with existing time & attendance, access control and other photo ID applications.



# HDP600

HIGH DEFINITION CARD PRINTER/ENCODER

## High-Security Cards Demand High Definition Printing!



GOVERNMENT



MILITARY



CORPORATE

There's simply no better way to produce high-security cards with embedded electronics.

- Contact Smart Cards
- MIFARE® Contactless Cards
- HID® iCLASS™ Contactless Cards
- Proximity Cards
- Magnetic Stripe Cards
- Wiegand Cards
- Optical Memory Cards
- Bar Codes
- and more

Talk to your authorized Fargo integrator about why the HDP600 is the printer/encoder of choice for government, corporate and other high-security card applications.



Maximize the performance of your Fargo Card Identity Solution. Ask your authorized Fargo integrator about:

- Fargo Certified Software
- Fargo Certified Supplies
- Fargo Extended Warranties
- Fargo On-call Express
- Fargo Visual Security™ Solutions

## Specifications

<b>Print Method:</b>	HDP Dye-Sublimation / Resin Thermal Transfer	
<b>Resolution:</b>	300 dpi (11.8 dots/mm)	
<b>Colors:</b>	Up to 16.7 million / 256 shades per pixel	
<b>Print Ribbon Options:</b>	<ul style="list-style-type: none"> <li>• Full-color, YMC*, 700 prints</li> <li>• Full-color with resin black, YMCK*, 500 prints</li> <li>• Full-color with two resin black panels, YMCKK*, 400 prints</li> <li>• Full-color with resin black and heat seal panel for difficult-to-print surfaces, YMCKH*, 400 prints</li> </ul> All HDP ribbons utilize Fargo's exclusive RibbonTraq™ system for maximum print quality, performance, reliability and ease of use.	
<b>HDP Film Options:</b>	<ul style="list-style-type: none"> <li>• Clear (1,250 prints)</li> <li>• Standard Holographic</li> <li>• Custom Holographic, special order</li> </ul>	
<b>Overlamine Options:</b>	<ul style="list-style-type: none"> <li>• Thermal Transfer Overlamine, .25 mil thick</li> <li>• PolyGuard Overlamine, 1.0 mil and .6 mil thick</li> </ul> All overlaminates available in clear, holographic globe design or custom holographic design. PolyGuard available in a CR-80 patch size.	
<b>Print Speed:**</b>	Batch Mode: <ul style="list-style-type: none"> <li>• 44 seconds per card / 82 cards per hour (YMC with transfer)*</li> <li>• 54 seconds per card / 66 cards per hour (YMCK with transfer)*</li> <li>• 79 seconds per card / 45 cards per hour (YMCKK with transfer)*</li> <li>• 55 seconds per card / 65 cards per hour (YMCK/lamination)*</li> <li>• 80 seconds per card / 45 cards per hour (YMCKK/lamination)*</li> </ul>	
<b>Accepted Standard Card Sizes:</b>	CR-80 (3.375"L x 2.125"W / 85.6mmL x 54mmW)	
<b>Print Area:</b>	Over-the-edge on CR-80 cards	
<b>Accepted Card Thickness:</b>	Print only: .030" (30 mil) to .070" (70 mil) / .762mm to 1.778mm Print/Lamination: .030" (30 mil) to .040" (40 mil) / .762mm to 1.02mm	
<b>Accepted Card Types:</b>	ABS, PVC, PET, PETG, proximity, smart and mag stripe cards, optical memory cards	
<b>Input Hopper Card Capacity:</b>	200 cards (.030" / .762mm)	
<b>Output Hopper Card Capacity:</b>	100 cards (.030" / .762mm)	
<b>Memory:</b>	8MB RAM	
<b>Display:</b>	User-friendly, SmartScreen LCD Control Panel; LED Display on Card Lamination Module	
<b>Software Drivers:</b>	Windows® 2000/XP	
<b>Encoding Options:</b>	<ul style="list-style-type: none"> <li>• ISO Magnetic Stripe Encoding Module, dual high- and low-coercivity, Tracks 1, 2, and 3</li> <li>• JIS II Magnetic Stripe Encoding Module</li> <li>• E-Card Docking Station (required for all e-card options or 3rd party smart card encoding)</li> <li>• Contactless Smart Card Encoder (HID iCLASS and MIFARE)</li> </ul>	<ul style="list-style-type: none"> <li>• Contact Smart Card Encoder reads from and writes to all ISO7816-1/2/3/4 memory and microprocessor smart cards (T=0, T=1) as well as synchronous cards</li> <li>• Prox Card Encoder (HID read-only)</li> </ul>
<b>System Requirements:</b>	IBM-PC or compatible, Windows 2000/XP, Pentium® class 133MHz computer with 32MB of RAM or higher, 200MB free hard disk space or higher and available USB port	
<b>Interface:</b>	USB 1.1 (Optional Centronics Parallel, IEEE 1284 compliant)	
<b>Operating Temperature:</b>	65° to 80° F / 18° to 27° C	
<b>Humidity:</b>	20-80% non-condensing	
<b>Dimensions:</b>	Printer: 10.75"H x 22.5"W x 13"D / 275mmH x 570mmW x 330mmD Printer + Lam: 10.75"H x 35"W x 13"D / 275mmH x 890mmW x 330mmD Lam Module: 10"H x 12.5"W x 10.25"D / 255mmH x 318mmW x 260mmD	
<b>Weight:</b>	HDP600: 39 lbs. / 17.7 kg HDP600 + Lam: 58 lbs. / 26.4 kg Lam Module: 19 lbs. / 8.7 kg	
<b>Agency Listings:</b>	Safety: UL 1950, CSA C2.2 (No. 950-95) and TÜV-GS (EN 60950 A1-A4, A11) Emissions: ITS (EN 55022 Class B:1995), FCC Class B, EN 50082-1:1997, BSMI, CRC c1374 and CE Mark	
<b>Supply Voltage:</b>	100-240 VAC, 4.25A	
<b>Supply Frequency:</b>	50 Hz / 60 Hz	
<b>Warranty:</b>	Printer – One year; optional Extended Warranty Program (U.S. only) Printhead – Lifetime; unlimited pass with Fargo Certified Cards	
<b>Fargo Certified Supplies:</b>	Fargo Card Printer/Encoders require highly specialized media to function properly. To maximize printed card quality and durability, printhead life and printer/encoder reliability, use only Fargo Certified Supplies. Fargo warranties are void, where not prohibited by law, when non-Fargo Certified Supplies are used.	
<b>Options:</b>	<ul style="list-style-type: none"> <li>• 32MB RAM Upgrade Kit</li> <li>• Printer Cleaning Kit</li> <li>• External Print Server (Windows only; required for stand-alone networking of printer/encoders)</li> </ul>	<ul style="list-style-type: none"> <li>• Card Lamination Module</li> <li>• Card Encoding Module</li> </ul>

\*Indicates the ribbon type and the number of ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, H=Heat Seal

\*\*Print speed indicates an approximate batch print speed and is measured from the time a card feeds into the printer to the time it ejects from the printer. Print speeds do not include encoding time or the time needed for the PC to process the image. Process time is dependent on the size of the file, the CPU, amount of RAM and the amount of available resources at the time of the print. (Note that single card speeds will be slower than the batch print speeds listed above since batch print speed is enhanced by the printer's multi-tasking capabilities when printing multiple cards in succession.)

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