HDP5000 HIGH DEFINITION PRINTER/ENCODER

PRODUCE CARDS IN HIGH DEFINITION FOR THE NEXT GENERATION OF ID CARD-BASED APPLICATIONS.

FARGO®
Secure Card Identity Systems

HDP5000

HIGH DEFINITION PRINTER/ENCODER

When you depend on your ID cards for more than a name and a photo, depend on the capability and efficiency of the Fargo HDP5000.

Single-sided printer/encoder

Dual-sided printer/encoder

Lamination option and dual-sided printer/encoder

Modular design grows with your needs. *Not sure what your ID card applications will require in the future? No problem. The HDP5000 is easily upgraded to fit your needs. Start with a basic single-sided unit. Install encoding modules. Upgrade to dual-sided printing. Add lamination, or simultaneous dual-sided lamination for the ultimate in card security and durability.*

Unleash the potential of smart cards.

Access control. Financial transactions. Biometric identification. Medical records management. Your ID card may hang at the end of a lanyard, but that's not where its potential ends. Government agencies, large corporations and financial institutions are all tapping into the power of ID card technology, from proximity cards to multifunction smart cards.

These card-based applications demand more capable, durable and secure ID cards than ever before. That means prox and smart cards produced in high definition by the Fargo HDP5000 High Definition Card Printer/Encoder.

Improvements you'll see in every card.

Fargo introduced High Definition Printing™ (HDP®) technology in 1999, and we've been advancing the technology ever since. It produces High Definition cards that give you outstanding print quality over embedded electronics, plus high durability and security — the ideal way to produce prox and smart cards.

The HDP5000 printer/encoder is our fastest, most efficient HDP model ever, with improvements at every level. Simpler operation requires only minimal training. Cards, ribbons and overlaminates now come in cartridges that literally load in a snap. Sharper image quality and new HDP materials deliver more impressive cards at a lower cost per card. And faster printing helps you fly through the biggest production jobs.

Add dual-sided durability and security — fast.

Applying a holographic overlaminate or holographic HDP Film to the front of an ID card improves its durability and security. An overlaminate on both sides doubles the protection. The HDP5000 laminates both sides of a card simultaneously in one efficient pass.

Since the lamination module has no card flipper, it doesn't waste time by turning a card over and laminating it again. Saving a few seconds per card may not sound like much. But multiplied by a 5,000- or 10,000-card production run, the savings are substantial.

The beauty of High Definition Printing runs deep.

ID cards should reflect your organization's pride, and the HDP5000 produces ID cards with the highest image quality available — High Definition cards. By printing a reverse image on the underside of HDP Film, then fusing the film to the card surface, the

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1. *Optional single-sided or simultaneous dual-sided lamination for higher card security.*
2. *Dual-sided card printing option expands printable area without manually reloading cards.*
3. *SmartScreen™ LCD Control Panel displays helpful status messages and prompts.*
4. *Cartridge-based card handling allows faster reloading or changing to different card stocks.*
5. *High-yield ribbon, film and overlaminate cartridges load fast and eliminate the waste of torn materials.*
6. *Encoding options handle magnetic stripe, proximity, contact and contactless smart cards.*
7. *USB and Ethernet connectivity plus internal print server for secure network printing.*

HDP5000 creates an image quality that looks more like a crisp glossy photo than an ordinary ID badge.

High Definition Printing has big advantages beyond good looks. Printing on film instead of directly on the card means that the uneven surface of technology cards can't affect image quality, or damage print heads. The HDP5000 can print up to the edge of smart chip contacts, and over-the-edge of the card.

Cards produced by High Definition Printing are inherently more durable and secure than other types of cards. They resist wear and tear by putting a durable layer of HDP Film between the card image and the outside world. They're also very secure and tamper-evident. If a counterfeiter tries to peel apart the layers, the image essentially destroys itself.

High Definition cards deliver the highest image quality — *layered on the highest functionality. HDP Film fuses to the surface of proximity and smart cards. It conforms to ridges and indentations formed by embedded electronics, and provides an extra layer of card durability and security.*

Build a complete card identity system.

The HDP5000 serves as the central component of a complete card identity system, which includes software, materials, cameras and accessories.

Software: The HDP5000 works with Fargo Asure ID® applications, and all other leading card creation and issuance management software. It comes with Fargo Workbench,™ a software toolkit for setup, printer security, diagnostics and firmware upgrades.

Secure Materials: The High Definition Printing materials for the HDP5000 deliver more durability and fade resistance than previous HDP formulations. That means fewer card replacements, and lower cost per card. Fargo Secure Materials let you set the level of card security, up to high-security custom holographic overlaminates and HDP Film on both sides of the card.

Cameras and accessories: Fargo offers a selection of digital cameras, photo lighting equipment and backgrounds, and card accessories.

The next generation of smart card applications *takes advantage of both a card's portability and ability to interact with digital systems. The HDP5000 prints and encodes multifunction cards in high definition for applications such as:*

Physical and Logical Security: *High Definition cards protect high-security facilities, and authorize access to secure networks and PCs.*

Personal Information: *Smart cards can securely store data and ensure accurate ID for health care, entitlement programs and time and attendance.*

Financial Transactions: *From ATMs to transit systems to cashless vending machines, smart cards make financial transactions quick and secure.*

HDP5000

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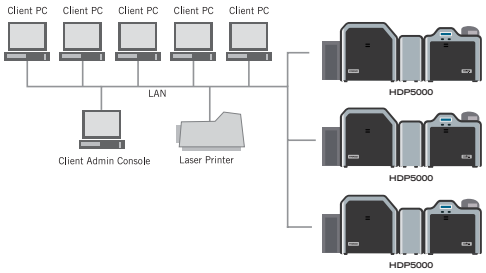
Produce High Definition cards anywhere.

These days, card production isn't limited to stand-alone badging stations. Financial institutions, for example, can securely distribute card issuance over a network to any branch location. Service bureaus can assemble an array of printer/encoders in a central location for high-volume card production.

The HDP5000 is the ideal choice for all of these scenarios. Its onboard Ethernet port and print server provide the connectivity needed for networked operations. Encoding options let you configure the HDP5000 to produce proximity and smart cards for just about any card-based application.

Government agencies, corporations, financial institutions, colleges and universities, and health care facilities are all expanding their use of multifunction smart cards. With the HDP5000 and its High Definition cards, you can take advantage of the next generation of card applications — now.

Learn more about the HDP5000 High Definition Card Printer/Encoder by contacting an authorized Fargo integrator. To find a Fargo integrator near you, visit ***www.fargo.com*** *or call 1-800-459-5636.*



The HDP5000 can fit seamlessly into corporate IT infrastructures. Its onboard Ethernet port and print server provide the connectivity needed for networked operations.

The HDP5000 printer/encoder is the most versatile way to produce multifunctional, durable and secure High Definition cards.

The HDP5000 meets the card application needs of:

- Government agencies and departments
- Medium-to-large corporations
- Financial institutions
- Colleges and universities
- Health care facilities and research labs
- Service bureaus

Specifications Overview (complete HDP5000 specs available at www.fargo.com/hdp5000-specs)

Print Method:	HDP Dye-Sublimation / Resin Thermal Transfer
Resolution:	300 dpi (11.8 dots/mm)
Colors:	Up to 16.7 million / 256 shades per pixel
Print Speed (batch mode):**	• 38 seconds per card / 95 cards per hour (YMC with transfer)* • 46 seconds per card / 78 cards per hour (YMCK with transfer)* • 70 seconds per card / 51 cards per hour (YMCKK with transfer)* • 50 seconds per card / 72 cards per hour (YMCK with transfer and dual-sided, simultaneous lamination)* • 75 seconds per card / 48 cards per hour (YMCKK with transfer and dual-sided, simultaneous lamination)*
Accepted Standard Card Sizes:	CR-80 (3.370" L x 2.125" W / 85.6mmL x 54mmW)
Accepted Card Thickness:	• Print only: .030" (30 mil) to .050" (50 mil) / .762mm to 1.27mm • Print/Lamination: .030" (30 mil) to .040" (40 mil) / .762mm to 1.02mm
Input Card Cartridge Capacity:	100 cards (.030" / .762mm)
Output Hopper Card Capacity:	200 cards (.030" / .762mm)
Software Drivers:	Windows® 2000 / XP / Server 2003 / Vista
Print Area:	Over-the-edge on CR-80 cards
Warranty:	Printer - One year including On-Call Express (U.S. only); optional Extended Warranty Program (U.S. only) Printhead - Lifetime; unlimited pass
Options:	• Card lamination module – single-sided or dual-sided (simultaneous) • Smart card encoding (contact/contactless) • Door and cartridge locks • Printer cleaning kit • Magnetic stripe encoding • 300-card input hopper (available soon) • Dual-sided printing

*Indicates the ribbon type and the number of ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, O=Overlay

**Print speed indicates an approximate print speed and is measured from the time a card drops into the output hopper to the time the next card drops into the output hopper. 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.

The HDP5000 supports a wide range of card technologies:

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

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

- Fargo Asure ID® Software
- Fargo Issuance Management Software
- Visual Security Solutions™
- Fargo Secure Materials
- Extended Warranties
- On-Call Express

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