Printing & Encoding Solutions

HID

Get vibrant, High Definition cards from the reliable, affordable FARGO® HDP5000.

High Definition printing delivers the highest image quality layered on the highest functioning cards. HDP Film fuses to the surface of proximity and smart cards, conforming to ridges and indentations formed by embedded electronics.

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.

Versatility meets simplicity.

Colors are vibrant. Images are crisp. Quality is second to none. ID cards printed on FARGO HDP5000 Card Printer/Encoders do more than protect your organization — they reflect its pride. HDP5000 produces ID cards with the highest image quality available. By printing a reverse image on the underside of HDP® Film, then fusing the film to the card surface, the HDP5000 creates an image quality that looks more like a sharp glossy photo than an ordinary ID badge.

Printing on film instead of directly on the card means that the uneven surface of technology cards doesn't compromise image quality. The HDP5000 can print up to the edge of smart chip contacts, and over the edge of the card.

High-quality images without the high price tag.

With the FARGO HDP5000, the price tag looks as great as the cards it produces. No other card printer delivers High Definition images at this price point, making the HDP5000 feasible for a broad range of organizations.

Rely on it for more than good looks.

The HDP5000 is exceptionally reliable, which means less printer downtime. Because the printhead never comes in contact with card surfaces or debris, it's never damaged in the printing process. In fact, it carries a lifetime warranty.

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 tamper-evident — if a counterfeiter tries to peel apart the layers, the image essentially destroys itself.

Improvements you'll see in every card.

FARGO introduced High Definition Printing in 1999, and we've been advancing the technology ever since. The HDP5000 is the most affordably priced HDP model ever. It's also the fastest and most efficient, with improvements at every level. Simpler operation requires only minimal training. Cards, ribbons and overlaminates literally load in a snap via the cartridge-based system. 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 needs 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 right printer for every application.

High Definition Printing is the latest technology for the best looking ID cards available, making the HDP5000 a smart choice for retail stores, recreation facilities, or any organization whose brand image is paramount.

It's also right for organizations that demand more functionality from their ID cards. Colleges, loyalty and membership programs, businesses and corporations, health care facilities and government agencies are all expanding their use of multifunction smart cards. Encoding options allow configuration of the HDP5000 to produce proximity and smart cards according to specific needs. And print quality is never sacrificed; the High

Definition Printing process fuses the HDP Film to the card surface, conforming to ridges and indentations of the embedded electronics in smart and prox cards so images are always sharp.

Produce High Definition cards anywhere.

Card production is no longer limited to stand-alone badging stations. A retail chain, for example, can distribute card issuance over a network to any location. On a corporate campus or university, an array of printer/encoders can be set up in a central location for high-volume production. The HDP5000 is the ideal choice for countless scenarios. Its Ethernet port and internal print server provide the connectivity needed for networked operations.

Take your card printing higher.

Only one card printer offers ultimate image quality and printer reliability, affordably. For every need — from great-looking photo ID cards to multifunctional, high-security applications — the HDP5000 does the job beautifully.

Learn more about the HDP5000

by contacting an authorized FARGO integrator. To find a FARGO integrator near you, visit integrator.hidglobal.com

The next generation of smart card applications.
The HDP5000 prints and encodes multifunction cards in High Definition for applications such as:
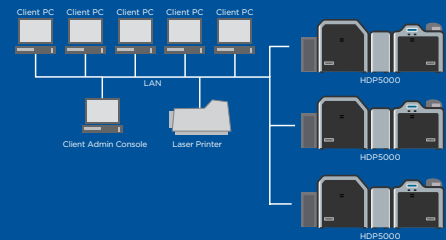
Physical and Logical Security: High Definition cards protect high-security facilities, and authorize access to secure networks and PCs.

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

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

Your total ID card solution
A FARGO Card Printer/Encoder is just one component of a complete card identity system. HID Global offers ID card software and materials, plus industry-leading access control technology — everything you need for a total solution from one trusted source.

Software
FARGO printer/encoders are designed to work with Asure ID® applications and all other leading card creation and issuance management software. FARGO printer/encoders also come with Workbench™, a software toolkit for set up, printer security, diagnostics and firmware upgrades.

Materials
FARGO ribbons, films and other materials not only ensure long-lasting, great-looking cards, they add features that increase durability and resist counterfeiting. That means fewer card replacements and lower cost per card.

Custom security options
Layer additional security onto cards with standard or holographic overlaminates customized with your proprietary design.

Elevate the security of your large card issuance project and help deter ID card counterfeiters. With a FARGO Secure Proprietary Consumables System, HID creates a unique link between proprietary FARGO printers and consumables used in your ID project.

Specifications Overview
(complete HDP5000 specs available at hidglobal.com/hdp5000)

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):**	• 26 seconds per card / 138 cards per hour (YMC with transfer)*
	• 32 seconds per card / 113 cards per hour (YMCK with transfer)*
	• 47 seconds per card / 77 cards per hour (YMCKK with transfer)*
	• 37 seconds per card / 97 cards per hour
	  (YMCK with transfer and dual-sided, simultaneous lamination)*
	• 55 secon ds per card / 65 cards per hour
	  (YMCKK with transfer and dual-sided, simultaneous lamination)*

Accepted Standard Card Sizes:	CR-80 (3.370˝ L x 2.125˝ W / 85.6 mm L x 54 mm W)
Accepted Card Thickness:	.030˝ (30 mil) to .050˝ (50 mil) / .762 mm to 1.27 mm
Input Card Cartridge Capacity:	100 cards (.030˝ / .762 mm)
Output Hopper Card Capacity:	200 cards (.030˝ / .762 mm)
Software Drivers:	Windows® XP / Server 2003 / Vista (32 & 64 bit) / Server 2008 (32 & 64 bit) / 7 (32 & 64 bit); Mac OS X v10.4 / v10.5; and Linux***
Print Area:	Over-the-edge on CR-80 cards
Warranty:	• Printer - Two years including one year of free printer loaner support (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) • Dual-sided printing • Door and cartridge locks • Printer cleaning kit • Magnetic stripe encoding • iCLASS® Programming Platform Kit • Secure Proprietary Consumables System • Custom Secure Holographic HDP Film and Overlaminate

*   Indicates the ribbon type and the number of ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, I=Inhibit, F=Fluorescing, H=Heat Seal.
** 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.
*** Linux versions: Ubuntu 7.10, Red Hat Enterprise Desktop 5, Fedora Core 7, Fedora Core 8, openSUSE 10.3.

FARGO® HDP5000

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 Ribbon Options:	• Full-color, YMC*, 750 prints • Full-color with resin black, YMCK*, 500 prints • Full-color with two resin black panels, YMCKK*, 500 prints, • Full-color with resin black and heat seal panel for difficult-to-print surfaces, YMCKH*, 500 prints • Full-color with resin black and inhibit panel for signature or other non-printing areas, YMCKI*, 500 prints • Full-color with fluorescing and resin black, YMCFK*, 500 prints • Resin black, K, 3000 prints
HDP Film Options:	• Clear (1,500 prints) • Standard Holographic (500 prints) • Custom Holographic, special order (500 prints)
Overlaminate Options:	• Thermal Transfer Overlaminate, .25 mil thick, 500 prints • PolyGuard® Overlaminate, 1.0 mil and .6 mil thick, 250 prints (PolyGuard available in a CR-80 patch size) All overlaminates available in clear, standard holographic design or custom holographic design
Print Speed:**	Batch Mode: • 26 seconds per card / 138 cards per hour (YMC with transfer)* • 32 seconds per card / 113 cards per hour (YMCK with transfer)* • 47 seconds per card / 77 cards per hour (YMCKK with transfer)* • 37 seconds per card / 97 cards per hour (YMCK with transfer and dual-sided, simultaneous lamination)* • 55 seconds per card / 65 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)
Print Area:	Over-the-edge on CR-80 cards
Accepted Card Thickness:	• Print only: .030" (30 mil) to .050" (50 mil) / .762mm to 1.27mm • Print/Lamination: .030" (30 mil) to .050" (50 mil) / .762mm to 1.27mm
Accepted Card Types:	ABS, Laminated PVC, PET, PETG, proximity, smart and mag stripe cards, optical memory cards Note: ABS and PVC cards are not recommended for use in the HDP5000 Lamination Module.***
Input Card Cartridge Capacity:	100 cards (.030" / .762mm)
Output Hopper Card Capacity:	200 cards (.030" / .762mm)
Card Cleaning:	Replaceable cleaning roller (included with each print ribbon)
Memory:	16MB RAM
Display:	User-friendly, SmartScreen™ LCD Control Panel
Software Drivers:	Windows® 2000 / XP / Server 2003 / Vista (32 & 64 bit) / 7 (32 & 64 bit); Mac OS X v10.4 / v10.5; and Linux****
Single Wire USB 2.0 Encoding Options:	• ISO Magnetic Stripe Encoding, dual high- and low-coercivity, Tracks 1, 2 and 3 • Contactless Smart Card Encoder (HID iCLASS and MIFARE) • 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 • Prox Card Reader (HID read-only) • iCLASS® Programming Platform Kit
Interface:	USB 2.0 (high speed) and Ethernet with internal print server
System Requirements:	• x86 based PC or compatible, Windows 2000, Windows XP, Windows 2003, or Windows Vista, 500MHz computer with 256MB of RAM or higher, 500MB free hard disk space or higher
Operating Temperature:	65° to 90° F / 18° to 32° C
Supply Voltage:	100-240 VAC, 3.3 A
Humidity:	20 - 80% non-condensing
Dimensions:	• HDP5000: 11.50"H x 12.25"W x 9.25"D / 292mmH x 313mmW x 235mmD • HDP5000 + Dual-Sided Module: 11.50"H x 17.50"W x 9.25"D / 292mmH x 445mmW x 235mmD • HDP5000 + Single-Sided Lam Module: 12.75"H x 25"W x 9.25"D / 324mmH x 635mmW x 235mmD • HDP5000 + Dual-Sided Module + Dual-Sided Lam Module: 12.75"H x 30"W x 9.25"D / 324mmH x 762mmW x 235mmD • Lam Module: 12.75"H x 12.25"W x 9.25"D / 324mmH x 313mmW x 235mmD
Weight:	• HDP5000: 16 lbs. / 7.3 kg, HDP5000 + Dual-Sided Module: 22 lbs. / 10 kg, HDP5000 + Single-Sided Lam Module: 28 lbs. / 12.7 kg, HDP5000 + Dual-Sided Module + Dual-Sided Lam Module: 36 lbs. / 16.4 kg
Agency Listings:	• Safety: UL 60950, CSA C2.2 No 60950, CB report (EN 60950), and CE mark • EMC: FCC Part15 Class A, EN 55022: 1998 Class A, CRC c1374, EN 61000-3-2: 2000,EN 61000-3-2: 1995, EN 55024: 1998, CE mark, and CCC mark
Supply Voltage:	100-240 VAC, 3.8A
Supply Frequency:	50 Hz / 60 Hz
Warranty:	• Printer – Two years including one year of free printer loaner support (U.S. only); optional Extended Warranty Program (U.S. only), Printhead – Lifetime; unlimited pass
FARGO Secure Materials:	FARGO Card Printer/Encoders require highly specialized media to function properly. To maximize printedcard quality and durability, printhead life and printer/encoder reliability, use only FARGO Secure Materials. FARGO warranties are void, where not prohibited by law, when non-FARGO Secure Materials are used.
Options:	• Card Lamination Module – single-sided or dual-sided (simultaneous)*** • Magnetic stripe encoding • Smart card encoding (contact/contactless) • Dual-sided printing • Door and cartridge locks • Printer cleaning kit • Secure Proprietary Consumables System • Custom Secure Holographic HDP Film and Overlaminate
Software:	FARGO Workbench Diagnostic Utility

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

** 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.

*** ABS and PVC cards are not recommended for use in the HDP5000 Lamination Module. (Free card proofing available. Please contact your local integrator for more information.)

**** Linux versions: Ubuntu 7.10, Red Hat Enterprise Desktop 5, Fedora Core 7, Fedora Core 8, openSUSE 10.3.

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FARGO® HDP5000 High Definition Printer has been approved as FIPS 201 compliant by the United States General Services Administration (GSA) under the card printer category and has been added to the GSA FIPS 201 Approved Products List.