Printing
& Encoding
Solutions

HID®

Deliver a highly personalized customer experience with instant card issuance.

FARGO High Definition Printing™ (HDP®) technology delivers superb image quality on smart cards. HDP Film conforms to the uneven surface created by embedded electronics.

The HDPii Plus helps attract new customers and build your business with existing customers by offering the opportunity for highly customized card designs.

Financial cards just got exciting.

HID Global, the worldwide leader in solutions for the delivery of secure identity, presents the desktop FARGO® HDPii Plus Financial Card Printer/Encoder. The HDPii Plus makes instant issuance practical and affordable for a wide range of financial cards, helping you deliver an outstanding customer experience with speed, convenience and security.

With the HDPii Plus, branch personnel can hand a new financial card to a customer in minutes. No worries about cards lost or stolen in the mail. No delays due to ordering cards from a card plant or service bureau. Instant issuance with the HDPii Plus means that your customers can start using their cards immediately — a plus for your institution.

And financial cards produced by the HDPii Plus offer impressive image quality. HID's High Definition Printing (HDP) technology prints photo-quality, continuous-tone images over the card edge with vibrant colors, sharp text and graphics.

Financial card specialist.

The FARGO HDPii Plus printer/encoder was designed specifically for the secure instant issuance of financial cards.

The HDPii Plus prints financial cards on both sides and writes card data with its standard magnetic stripe encoder and optional contact and contactless smart card encoders. The printer supports the secure global Europay

Mastercard Visa (EMV) standard, ensuring that cards are interoperable within the global payment infrastructure and providing greater protection from fraud. Special features of the HDPii Plus make it compliant with the security requirements of financial card associations. The printing ribbon, HDP Film and card materials in the input hoppers are all protected by dual hardware and electronic locks; cards in the output hopper are concealed. The printer has a slot for a Kensington® lock and can be physically bolted to a counter top. Sensitive cardholder data is AES-256 encrypted as it passes from the printer driver to the internal encoders.

The HDP advantage.

By using High Definition Printing technology, the HDPii Plus produces financial cards with print quality that rivals pre-printed cards. High Definition Printing is a dye-sublimation process that prints crisp text and full-color, continuous-tone graphics to the underside of HDP Film. The film is then fused with heat and pressure to the card surface.

This retransfer technology seals the card image under the HDP Film, and provides three essential benefits for financial cards. The first benefit is over-the-edge printing, which replicates the look of pre-printed cards. Durability is the second benefit, with HDP Film protecting the printed image from rubbing off the card. And third is fraud protection. HDP Film is inherently tamper-evident. Any attempt to peel apart the card layers instantly damages the card image.

A new generation of opportunities.

The FARGO HDPii Plus produces the new generation of financial cards with no embossed text on the front and increasingly, a contact or contactless smart chip inside. Instant issuance opens exciting new possibilities in card design and personalization.

Start with an unprogrammed, magnetic stripe card that's blank white except for the card association's brand mark, hologram and signature stripe. The HDPii Plus gives institutions of any size the flexibility to brand and customize their own financial cards. For example, retail organizations can issue credit cards on-site, immediately activating them and helping ensure customer transactions on that same day. The speed, security and superb print quality of the HDPii Plus makes these and other marketing opportunities possible.

The HDPii Plus also improves the efficiency of instant issuance. Bank branches can stock fewer card blanks and reduce costs and other pre-printed card requirements. The HDPii Plus turns blank cards, pre-imprinted with the card association brand mark and foil hologram into a huge variety of personalized financial cards. An optional dual card input hopper streamlines card production even more; card stock needs to be replenished less frequently, enabling longer, uninterrupted print runs.

Simple and secure card production anywhere.

With its ease of use, reliable operation and low maintenance, the HDPii Plus Financial Card Printer/Encoder gives institutions the confidence to deploy instant issuance to thousands of branch locations. The HDPii Plus is surprisingly easy to use. Cards, ribbons and HDP Film are all cartridge-based and load in a snap. Simple on-screen prompts from the HDPii Plus printer driver, and a helpful LCD control panel on the printer itself, make operation simple and intuitive.

The time is now.

Financial institutions are embracing the convenience and flexibility of the HDPii Plus printer/encoder to cost-effectively produce secure and durable financial cards. Instead of the delays and security concerns of central issuance, the HDPii Plus puts financial card issuance where the customer is, instantly, with vivid color and personalized graphics. It raises customer service and loyalty to a new level. And the HDPii Plus helps lift activation to 100% and shift first transaction to just a day or two after issuance. By eliminating the traditional problems of cost, logistics and security, HID Global continues to make instant financial card issuance practical, affordable and profitable — with the FARGO HDPii Plus Financial Card Printer/Encoder.

First-in-class support application.

The included FARGO Workbench diagnostic utility facilitates printer maintenance. Its Color Assist tool matches spot colors, ensuring accurate prints of graphics such as company logos.

Learn more about the exciting potential of the HDPii Plus for your financial institution. **Visit hidglobal.com**

EMV encoding for greater versatility.

With support for the global Europay Mastercard Visa (EMV) standard in addition to magnetic stripe card encoders, the HDPii Plus can produce highly secure smart cards that address your specific payment needs.

Taking financial cards beyond financial institutions.

With the FARGO HDPii Plus, financial card production is now practical and affordable for organizations beyond financial institutions:

Campus card programs: Yesterday's student photo ID is today's multi-function campus card, including use for cashless and debit card transactions on and off campus. The HDPii Plus makes on-the-spot issuance of durable, secure campus cards fast and efficient. And the superb print quality means that students can show off their school pride everywhere they use their cards.

Retail gift cards: There's no doubt that gift cards are a popular, fast-growing part of retail sales. The HDPii Plus gives retailers of all sizes a huge opportunity to offer an endless array of gift card designs, with customer personalization in image and text areas. Retailers can also quickly change gift card designs for different holidays and promotions.

Specifications Overview (complete HDPii Plus specs available at hidglobal.com)

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)**	Up to 48 seconds per card / 75 cards per hour (YMCKI with transfer)*
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	100 cards (.030˝ / .762 mm)
Software Drivers	Windows®: 8 / 7 / Vista/ Server 2008 & 2003 / XP
Print Area	Over-the-edge on CR-80 cards
Warranty	• Printer - Three years • Printhead - Lifetime; unlimited pass
Options	Dual card input hopper
Encoding	• Standard Magnetic Stripe Encoder - ISO 7811 (high and low coercivity) • Optional Contact/Contactless Smart Card Encoder - ISO 7816, ISO 14443, EMV Level 1
Included Software	FARGO Workbench Diagnostic utility with Color Assist spot-color matching

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

** 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.

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