PB8500™

Datacard® PB Series System

The ultimate passport platform for scalable modularity

The Datacard® PB8500™ Passport Issuance System is the industry's most scalable and flexible passport personalization platform. This system provides a powerful suite of solutions to governments and integrators as they design and implement new passport issuance programs. The fully automated system offers ICAO-compliant technologies, scalable production capacity up to 800 BPH, plus the unmatched modularity needed to support a 10-year passport program.

ENTRUST

SECURING A WORLD IN MOTION

Full range of passport issuance solutions

DATACARD PB8500 PASSPORT ISSUANCE SYSTEM

Today's advanced and feature-rich passport personalization platform is built to meet the demanding needs of your passport program. This system gives you the speed, power, and control you need to build a successful solution. Best-in-class UV-curable printing and laser engraving technologies ensure security that will last for years. Plus, intelligence, quality, and reliability combine for the industry's most exciting solution.

BUILD YOUR UNIQUE SYSTEM

- System controller
- Input
- Booklet opening
- Page turning
- Multi-book chip
- Laser 450G
- Pretreat
- Drop on demand printing
- Secure overlay
- Quality assurance
- Buffer/closer
- Output

Innovative passport personalization platform

Powerful Integrated Software: Controller software provides a single interface for all interactions with the PB8500 System. This powerful software manages access to the system and enables creation of passport and job setups to empower passport operation efficiency and security.

Next-Generation Technologies: Issue secure passports using UV-curable drop on demand printing combined with laser engraving, plus an impressive range of security features and UVF ink.

True Field Modularity: Unlike other systems, the PB8500 System offers true field modularity. Entirely new or enhanced modules can be field-installed in a matter of minutes, which helps drive the unmatched investment protection you get from Entrust.

Smart Card Flexibility: An innovative multi-book chip module, powered by Entrust Chip Interface Software, programs five books at a time. Additional modules can be ganged to accommodate longer programming time with as many as 20 programming stations.

Comprehensive Quality Assurance: Automated inline quality control technologies greatly reduce errors and waste by automatically verifying physical and electronic card elements. These capabilities reduce the need for manual inspection and directly contribute to higher throughput and lower costs.

Service and Support: The PB Series family is supported by the industry's largest service and support network, which spans more than 150 countries worldwide. Online and phone support is available 24/7.

PB8500 SERIES SYSTEM TECHNOLOGIES

Controller - Manages the entire issuance process from a single and highly secure point of control

Input - Reliably feeds booklets into the system

Booklet opening - Automatically opens booklets to the data page for personalization

Multi-book chip - Securely encodes or verifies the encoding for a wide range of passport chips

Laser - Engraves high-quality text, logos, photos, bar codes, and unique security features to create highly secure documents

Pretreat - Supports the drop on demand printing module by cleaning the passport page of surface contaminants, and promotes the adhesion and durability of the drop on demand ink

Drop on demand printing - Prints and cures crisp and clear full-color portraits and images, text, and other elements on a paper or polycarbonate passport page, with available UVF inks for security features and durability

Secure overlay - Thermally fuses clear or holographic overlays to the personalized data page for increased security, durability, and tamper-evidence

Quality assurance - Automatically verifies personalized elements, whether electronic or printed

Buffer/closer - Synchronizes modules for efficient personalization to achieve full system speed and closes passport booklet when needed

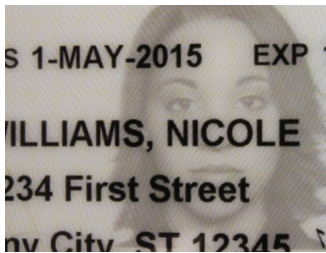**Output** - Closes and stacks finished booklets

Issue exceptionally secure and unique personalized passports

Forensic PersoCurve™ security feature adds security elements that are difficult to replicate.

LaserTact™ creates more prominent tactile laser impression of variable biographical data and static images or symbols. This provides more secure personalization that cannot be easily altered and provides tamper evidence.

LaserShadow™ provides an unobtusive layered effect using background text or photo. Trends in data page design include multiple photos using different approaches, thus making the passport more difficult to counterfeit.

Laser 450G provides fiber optic laser engraving technology to deliver exceptional quality passports at high speed. Capable of engraving high-resolution images, alphanumeric text, bar codes, specialized security features and other graphical elements with grayscale resolution up to 3200 dpi.

Datacard® PB8500™ Passport Issuance System

PB8500 System Specifications	
Rated speed	• Up to 800 books per hour • Speed dependent on configuration and personalization requirements
Operating system	Microsoft Windows 10 IoT Enterprise 2016 LTSB
Maximum configuration	Up to 32 modules
Electrical requirements	230V, 50/60 Hz
Operating requirements	• Room temperature: 65° to 80° F (18° to 27° C); Humidity: 35% to 85% (non-condensing) • Recommend service area around system be at least 36″ (76.2 cm) to help provide adequate airflow • See module data sheets for specific information
Storage requirements	Room temperature 50° to 130° F (10° to 54° C), Humidity 0% to 85% (non-condensing)
Agency approvals	FCC, UL, cUL, CE, and RoHS compliant
Passport books supported	Supports ID-3 ICAO 9303 compliant booklets
Passport materials supported	• Passport data pages: Polycarbonate or paper • Passport observation pages (page 3): Paper

PROTECT YOUR BORDERS TODAY AND TOMORROW

Issue and manage highly secure passports, e-passports, and other travel documents with advanced security features that protect from alteration, forgery, and fraud. In addition to the PB8500 Passport Issuance System, our passport platform also includes these systems designed to meet your needs.

PB6500 COMPACT SYSTEM

• Compact, simple to deploy, higher throughput
• Semi-automated system with up to 250 BPH provides laser/inkjet/chip or inkjet/secure overlay/chip for a low total cost of ownership

PB1000 SYSTEM

• Entry-level system for programs that are migrating to polycarbonate
• Semi-automated system with up to 125 BPH provides laser/chip

Learn more about the PB Series at entrust.com

Global Headquarters
1187 Park Place, Minneapolis, MN 55379

U.S. Toll-Free Phone: 888 690 2424
International Phone: +1 952 933 1223