

Euclid E6200 Series - Magnetic Stripe with Overprinting and Camera Matching



THE E6200 PRINT PERSONALISATION SYSTEM

The Euclid E6200 Print Personalisation System has been developed in response to a growing market need to encode, verify and overprint cards at high throughputs and with 100% accuracy.

Based on proven technology, developed and tested over several years by Euclid, the E6200 processes cards and tickets at 10,000 items per hour. It will encode and verify loco or hico magnetic stripe on all three tracks, overprint multiple fields of variable or fixed data (including bar codes) and camera verify the printed data. A reject mechanism will cull out any cards which fail magstripe or print verification. The inclusion of high speed camera technology to scan all print data ensures that all cards which pass system inspection are correct, thereby precluding the need for secondary, off-line inspection.

The E6200 comprises a complete system including its own integral PC controller with flat LCD screen and Windows based software. Its footprint and competitive pricing means that even smaller card facilities are able to enjoy the advantages of high speed production, with in-line quality checking, at a fraction of the price normally associated with this type of system.

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OPERATION

The E6200 operates under the control of its own integral PC which runs a single, Windows based, software package. Cards are stream fed from the input hopper, encoded and verified, overprinted then camera verified before being stacked onto a conveyor. In the event any card should fail a verification process it is culled out onto a separate conveyor. Remakes are carried out in sequence order which ensures no need to manually insert after the event. A single operator can manage this system with ease, personalising 10,000 cards per hour.

SECURITY

Data files are protected by an embedded key in the form of a DLL, encrypted at the source and decrypted within the system. Control via the application software, held on the integral PC, is protected by three levels of password access: Master, Supervisor and Operator.

QUALITY ASSURANCE

Accuracy

Printing accuracy is ensured by the inkjet head mounted above the vacuum bed. With the Domino A400 inkjet printer option the print head is on a heavy duty micrometer platform, which accurately positions the print data to the long edge of the card. A high resolution shaft encoder working in conjunction with slotted optical card sensors ensures positional accuracy and repeatability of print to the short edge of the card.

With the Domino Bitjet 212 inkjet printer option the print position accuracy can be set by the printer computer.

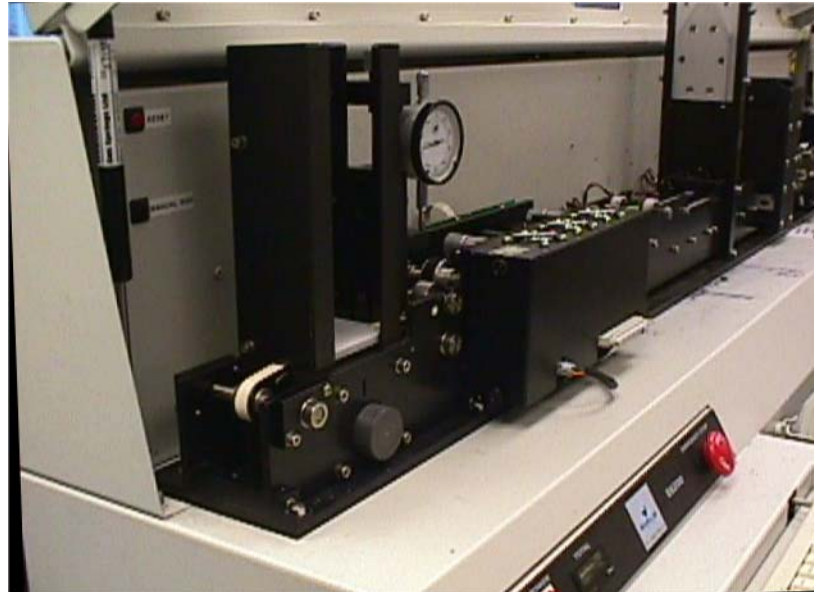
Verification

This system utilises a camera verification stage to test card quality. Following print, the camera scans each card and its variable detail is checked for accuracy. If a card is improperly printed, it passes through the transport, bypassing label application and is diverted onto the reject conveyor. If more than three consecutive cards are rejected, the process is halted to enable operator/ supervisor intervention.

TECHNICAL SPECIFICATION

- ▲ 250 card input hopper capacity
- ▲ 10,000 cards per hour encode/ verify/ print and camera scan
- ▲ Single or multiple track encode
- ▲ Hico/ loco
- ▲ Multiple field overprint, fixed or variable data, including bar codes
- ▲ High resolution CCD camera scanning with full OCR capability
- ▲ Simple and speedy camera setup – typically 20 minutes per card type
- ▲ Adjustable for card thicknesses in the range 250 microns (0.010 in.) to 750 microns (0.030 in.)
- ▲ Single colour, menu-driven Windows package for simplicity, controlling transport, encoder, camera and Domino Bitjet
- ▲ Security screen accessible password
- ▲ Datafile upload by network connection, CD/ floppy drive or keyboard entry
- ▲ Unlimited number of Save/ Recall formats for frequent jobs
- ▲ Low card loss through rejects
- ▲ Modular transport construction
- ▲ Two models available E6200A / E6200B
- 'A' has a single Domino A400 inkjet printer for up to two lines of alphanumeric data lengthwise
- 'B' has a Domino Bitjet 212 inkjet printer for multiple print fields anywhere on the surface of the card including across the short side

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Transport showing Feeder, Encoder and Printer



Control Panel



Pass and Reject Conveyors

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MAGNETIC STRIPE CHARACTERISTICS

Standards: ISO 7811-2, 7811-4 and 7811-5 and centre stripe for ticketing applications.

Encoding mode:

- Read only: Data from all three tracks can be read and stored in a data file.
- Loco encoding: Data is encoded and verified on any combination of tracks 1, 2 and 3 at 300 Oersted.
- Hico encoding: Data is encoded and verified on any one selected track; 1, 2 or 3, at 2750 Oersted.

Encoding density:

- Data is encoded at 210 bpi or 75 bpi data rates in accordance with ISO 7811-2 and 7811-6.
- Selected non-ISO bpi densities are available for special applications.

PRINTER SPECIFICATIONS

Euclid E6200A - Domino A400 Inkjet Printer

- Character height: Min. 3.0 mm (0.118 in.); Max. 8.5 mm (0.334 in.).
- Character width: Variable by software setting.
- Character spacing: Single/Double by software setting.
- Bar code types: Interleaved 2 of 5, Code 39, USPS, EAN/UPC, Codabar, Code 128.
- Print position: The print head location across the height of the card is adjustable by means of a heavy duty platform.
- The print position from the leading edge of the card is adjustable in the software. The total range of adjustment includes the entire card face.

Euclid E6200B - Domino Bitjet 212 Inkjet Printer

- The Bitjet print head contains 256 addressable points with a maximum resolution of 120 dpi vertically x 240 dpi horizontally over the entire card face. The printer has the ability to print a mix of character heights and all common font formats available from Microsoft® Windows NT®, combined with any monochrome graphic.
- Bar code types: Interleaved 2 of 5, Code 39, Extended Code 39, Codabar, Code 128, Postnet, 2D, OCR, Planet, 4-State and UPC/EAN.
- Print position: The print head covers the whole of the card height, allowing printing in any position on the card through software setup.

ENVIRONMENTAL REQUIREMENTS

- Operating temperature 13°C - 27°C
- Relative Humidity 20% - 85% non condensing

POWER REQUIREMENTS

- Voltage: 110 -240 VAC, 50/60 Hz
- Power: 1650 W

DIMENSIONS

Height	1700 mm (67 in.)
Width	1780 mm (70 in.)
Depth	820 mm (32 in.)
Weight	200 kg (440 lb.)