DATACARD® MX6000™ CARD ISSUANCE SYSTEM

LASER ENGRAVING MODULE

The laser engraving module on the MX6000 system utilizes the latest in engraving technology to deliver high-speed, high-quality laser imaging of cards. It is capable of engraving variable-sized photos, alphanumeric text, bar codes, black-and-white logos and other graphical elements with exceptional quality.

- State-of-the-art, grayscale laser technology produces high-quality engraved tonal images
- Engraves both the front and back of the card in a single module
- Scalable laser solution integrates multiple modules to meet higher throughput demands
- Supports tilted engraving for enhanced visual security
- Optional vision registration allows precise alignment between engraved elements and preprinted cards
- The solid-state, diode-pumped laser provides powerful technology within a compact module, including power supply and cooling unit

| Laser Engraving Module Specifications | | |
|---------------------------------------|--|--|
| | | |
| Rated Speed | Up to 1,500 CPH (Dependent on card data engraved) | |
| Engraving Technology | Air cooled, diode-pumped laser Class Laser Product | |
| Engraving Capabilities | Pixel engraving: text, photos, bar codes, and other digitized images Micro-engraving Tilted image engraving | |
| Resolution | Greater than 400 dpi; grayscale | |
| Laser Engravable Elements | Photos, alphanumeric text, vector text, bar codes, signature, fingerprint, black-and-white logos, graphic images, scrambled indicia, tilted images, ghost images, micro-engraving | |
| Text Formats | Scalable fonts, including TrueType fonts for Microsoft® Windows® operating systems | |
| Bar Code Formats | One-dimensional (1D): EAN12, Code 39, Code 3 of 9, Code 128, Interleaved 2 of 5, Two-dimensional (2D): PDF417 | |
| Image Formats | JPEG (.jpg), TIFF (.tif), Bitmap (.bmp), PNG (.png) | |
| Laser Engraving Placement | Front and back of the card 0.10 in. (2.54 mm) from the top or bottom edge of the card 0.02 in. (0.50 mm) from the left or right edge of the card Laser engraving rotation between 0° and 359° | |
| Laser Engraving Accuracy | ±0.004 in. (±0.1 mm) in both X and Y axes | |
| Laser Light Source Expected Life | Over 10,000 hours | |
| Micro-Engraving Feature | 400-800μm in height | |
| Titled Engraving Feature | Tilted laser range of +27° to -27° in rotational increments of 1° Engraving can be placed 0.315 in. (8.0 mm) from any edge on the card | |
| Vision Registration Feature | Optional feature Tolerance: 0.006 in. (0.015 cm) with respect to the vision mark | |
| System Configuration | Up to 4 modules per system Cards must be laser engraved before any type of topcoat is applied | |
| Card Types Supported | ISO/IEC 7810 ID-1 Size; 30 mil (±10%) | |
| Card Materials Supported | Laser engraving recommended only for polycarbonate, composite or PVC cards with a special laser layer | |
| Module Dimensions | 50.1 in. H x 10.0 in. W x 27.0 in. D (127.3 cm x 25.4 cm x 68.6 cm) | |
| Weight | 155.0 lbs (71.0 kg) | |
| Current Draw | I.33 Amps at 230V | |
| Heat Output | Average of 1,020 BTUs per hour | |



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| Laser Engraving Module Supplies | | |
|---------------------------------|---------------------------------|---------------------|
| Item Number | Description | Approx. Card Yield* |
| 569112-001 | Laser cleaning filter, carbon | 300,000 |
| 569113-001 | Laser cleaning filter, particle | 300,000 |
| *Yields are estimated. Actua | l yields may vary. | |

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