# MAGICARD

## Professional ID Card Printers
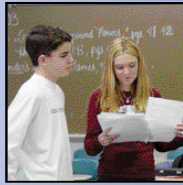
Photo ID Cards

Access Control

Official Passes
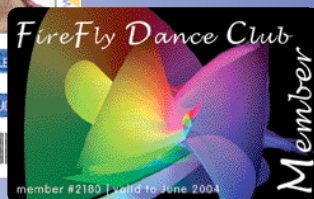
Membership Cards

Barcoded Cards

Magstripe Cards

Loyalty Cards

Visitor IDs

Business Cards

Electronic Solutions Inc.
Customer
Ed Spiro
Technician

Newton Hospital
Dr Claude
Emergency

International Transit
Travel Card
November 2003

WAVERLEY COLLEGE
WAVERLEY CITY WY11011
NAME
CAROLINE GILE
COURSE
BUSINESS STU

FireFly Dance Club
Member
member #2180 | valid to June 2004

MAGICARD
Holo kote

Ultra Cover Plus

THE QUEEN'S AWARDS FOR ENTERPRISE 2000
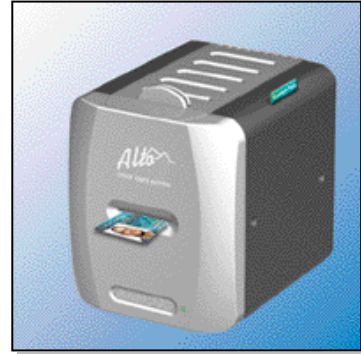
**www.uniforce .com.hk**
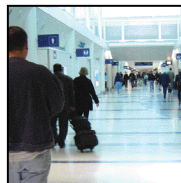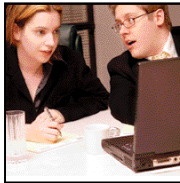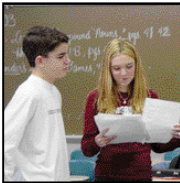
## Rio™ card printer

Downloads and prints a single-sided full color card image (YMCKO) in less than 20 seconds using advanced bi-directional USB or parallel port

Built tough to withstand the hard work of high throughput jobs, but also ideal for low duty-cycle applications

## Alto™ card printer

Entry level, high security card printer downloads and prints a full color, edge-to-edge card in 30 seconds and features a HoloKote® RFID Custom Key™ facility

## MAGICARD Holo kote

The Magicard Rio, Rio Grande, Tango and Alto card printers feature built-in HoloKote™, Ultra's patented anti-forgery system The Magicard Rio, Rio Grande, Tango and Alto card printers feature built-in HoloKote™, Ultra's patented anti-forgery system

## Tango™ double-sided card printer

Downloads and prints a double-sided, full color card in around 40 seconds using advanced bi-directional USB or parallel port

Prints double-sided YMCKOK in around 30 seconds

## Rio Grande™ CR100 large format card printer

The Grande is a Rio variant that prints onto CR 100 large format cards using standard LC1 five panel dye film. This format is ideal for Government, Airport and Entertainment venue cards

## *Sicura* ™ laminator

The Magicard Sicura can be used in tandem with Rio and Tango printers or as a stand-alone laminator with the Alto or the Prima
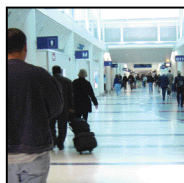
Puts a tough, polyester overlaminate onto pre-printed cards to protect against physical damage and tampering. Overlaminate can feature a custom hologram logo

## *Prima* ™ re-transfer laminating printer

The Magicard Prima prints on the reverse of a transparent PVC re-transfer film which is then laminated onto the face of a CR80 sized card made from PVC, PET, ABS or PVH

The quality of the finished card is similar to that achieved by the off-set litho printing process, but with the advantage that every card can be different

| | | |
|---|---|---|
| **HoloKote** | Rio, Tango & Alto | Built-in security watermark comes free with every Rio, Tango and Alto printer. For highest security and card forgery protection, custom logos can be programmed on a unique Custom Key (limited to custom text only on the Alto) |
| **holo patch** | Rio, Tango & Alto (*option*) | Holopatch cards have a highly reflective gold 'super diffuser' patch which is used in conjunction with the HoloKote anti-counterfeiting feature to highlight a selected logo for distance visibility. The HoloPatch feature can also be applied to customer supplied prox cards if required |
| **UltraCoverPlus** | Rio, Tango, Prima Alto & Sicura | Free two years UltraCoverplus® warranty with no-quibble printhead and loaner cover (standard in EU & US only) |
| **Full bleed** | Rio, Tango, Prima & Alto | Full bleed (edge to edge printing) |
| **Duplex printing** | Tango & Prima | Duplex (double-sided printing) |
| **Mag stripe** | Rio, Tango, Prima & Alto (*option*) | A dual coercivity HiCo/LoCo magstripe encoder option which offers encoding of all three tracks with complete user format flexibility (The Alto is limited to HiCo and tracks 1 & 2) Specify /M |
| **Chip encoding** | Rio, Tango & Prima (*option*) | Optional ISO 7816 internal smart card chip encoding contact station with direct connection to a DB9 connector on the rear of the printer (Specify /S). Can be combined with the Magstripe Encoder option (Specify /MS) |
| **Biometric encoding** | Rio, Tango & Prima (*option*) | Optional ISO 14443A or B contactless smartcard encoder with variants for MIFARE, OmniSmart, I-Class and others. Ideal for biometrics, fares, vending and access control |

# Specifications

| | Rio/Tango | Prima | Alto |
|---|---|---|---|
| **Print Speed** | Around 20 seconds for Rio/Tango single sided. Around 30 seconds for YMCKOK double-sided Tango card. Double-sided color, 40 seconds | About 30 seconds per full color (YMCK) side. Prints both sides in YMCK in about 60 seconds. | Downloads and prints a full color edge-to-edge image in 30 seconds. Downloads and prints a monochrome card in 6 seconds. Alto M with built-in magstripe encoder downloads and prints a full color edge-to edge image and magnetically encodes and verifies tracks 1, 2 and 3 in around 35 seconds. |
| **Duty Cycle** | No limits. Specified for both high and low throughput applications. | No limits. Specified for both high and low throughput applications. | No limits. Specified for both high and low throughput applications |
| **Security Features** | Holokote® anti-forgery protection preconfigured with UltraSecure® logo plus custom security mark when used with the optional HoloKote® Custom Key™. Use of HoloPatch™ cards produces high visibility security seal. | Built-in re-transfer laminate protection. Image is printed on rear of retransfer film. | HoloKote® anti forgery mark across face of card. Custom security mark with optional Custom Key™. Use of HoloPatch™ cards produces high visibility security seal. Key controlled printing option with Custom Key™. |
| **Standard Warranty** | 12 months (In the EU and North America, the Rio and Tango also comes bundled with two years FREE UltraCoverplus™ warranty which includes full printhead coverage and free loaner service). | 12 months (In the EU and North America, the Prima also comes bundled with two years FREE UltraCoverplus™ warranty which includes full printhead coverage and free loaner service). | 12 months (In the EU and North America, the Alto also comes bundled with two years FREE UltraCoverplus warranty which includes full printhead coverage and free loaner service). |
| **Printer Interface** | Separate bidirectional IEEE standard 1284-1994 compatible (Centronics) parallel port and Universal Serial Bus (USB rev 1.1) port (user choice). | SCSI II, Various installation options including PCI, PCMIA and USB converter. | USB rev.1.1 (USB 2.0 compatible |
| **Dye Film** | LC1 YMCKO (five panel), LC6 KO (black + overcoat), Range of color monochrome resin ribbon, LC8 Y M C K O K (six panel) Tango only.Simple drop in loading (no threading). Automatically detects dye film type. High capacity 350 shot spool for YMCKO dye film, 300 shot spool YMCKOK. | YMCK (4 panel). Pre-charge cassette loading. 1000 color sides per roll. (Retransfer film also in 1,000 shot rolls) | PF2: Full color, resin black & overcoat (YMCKO) 100 shots per cassette. PF3: Monochrome resin black 500 shots per cassette. Automatic set-up. |
| **Printhead Replacement** | Simple field replaceable unit (single fastener and connector). | Simple field replaceable unit. | 300 dpi field replaceable. |
| **Software** | Supplied with Windows '98, ME, NT4 and 2000/XP driver software. | Supplied with Windows '98, ME, NT4 and 2000/XP driver software. | Supplied with Windows 98, ME, 2000, XP driver software |
| **Cleaning** | Simple cleaning cycle using externally fed T-card. Interval can be changed to suit conditions (350 cards standard. | Removable cleaning roller cassette. | Simple cleaning cycle using externally fed T-card. Interval can be changed to suit conditions (100 cards standard. |
| **Power Source** | Internal Power Supply autoranging 90 to 265 VAC 47-63 Hz 100 watts max. load. | 100-120VAC/220-240VAC 47-63Hz. | External power 'brick' for 90-265V 40-60Hz (autoranging). |
| **Magstripe Encoder** | Optional HiCo/LoCo magstripe encoder (Rio M / Tango M) ISO std. 7811 and customer formats can be combined with chip encoder (Rio MS/Tango MS). | Optional HiCo/LoCo magstripe encoder (Prima M) ISO std. 7811 and customer formats can be combined with chip encoder (Prima MS). | ISO Std7811 compatible HiCo encoder for tracks 1 and 2 |
| **Smart Card Encoder** | Optional chip contact programming facility for smart cards (Rio S/Tango S) - can be combined with magstripe encoder (Rio MS/Tango MS). | Optional chip contact programming facility for smart cards (Prima S) - can be combined with magstripe encoder (Prima MS). | N.A. |
| **Prox Card Encoder** | Optional MIFARE® contactless smart card encoder (Rio MIFARE/Tango MIFARE). Other prox card options available: Contact Ultra Electronics Card Systems. | Various contactless smartcard options available. Contact Ultra Electronics Card Systems. | N.A. |
| **Card Lamination** | The optional Sicura™ stand alone laminating station can be used to apply a tough, 1 mil (0.0254mm) thick polyester overlaminate. | The Prima™ always produces a laminated card, but an additional polyester overlaminator such as the Sicura™ can be used for extra protection. | The optional Sicura™ stand alone laminating station can be used to apply a tough, 1 mil (0.0254mm) thick polyester overlaminate. |
| **OEM Customisation** | Firmware is stored in upgradable flash EPROM and product can be re-badged for OEM quantities. | N.A. | N.A. |
| **Dimensions** | Rio: 7.5" W x 8.0"H x 17.5" L (190mm W x 200mm H x 445mm L) including feeder and stacker. Tango: 7.5" W x 8.0"H x 21.5" L (190mm W x 200mm H x 545mm L) including feeder and stacker. | 13.4" W x 15".0" H x 13.4" L ( 340mm W x 381mm H x 340mm L). | Alto: 6.9" W x 8.86"H x 8.27" L (175mm W x 225mm H x 210mm L). Alto M: 6.9" W x 8.86"H x 10.04" L (175mm W x 225mm H x 255mm L). |
| **Weight** | Rio: 18.5lb (8.4 Kg) Tango: 21lb (9.5Kg). | 48.5lb (22Kg). | 5.5lbs (2.5Kg). |
| **Color** | Ivory (NCS 1500). | Dark gray with light blue trim. | Metallic silver/charcoal. |
| **Print Method** | Dye sublimation. | Dye sublimation reverse transfer. | Dye sublimation. |
| **Resolution** | 300 dpi (11.8 dots/mm). | 300 dpi (11.8 dots/mm). | 300 dpi (11.8 dots/mm). |
| **Card Stock** | Rio/Tango ISO Standard CR80 (Rio Grande ISO Standard CR100). Card Thickness 0.015" to 0.063 " (0.38mm to 1.6mm). Card Material PVC or PVC/polyester sandwich with PVC surface suitable for dye sub-printing. | ISO Standard CR-80, Card Thickness 0.01" to 0.1" (0.25mm to 2.4mm). Card Material PVC, PET, ABS, PVH (card surface is not printed). | 50 30 mil (0.76mm) PVC cards in sealed one shot dispenser. Plain, HoloPatch™ and HiCo magstripe cards available. |
| **Card Capacity** | 100 cards feed hopper, 50 output stacker. | 300 ISO cards in feed tray. | 50 cards in external dispenser. |
| **Operating Environment** | Sheltered office environment 50° F to 85° F (10° C to 30° C). | Sheltered office environment 50° F to 85° F (10° C to 30° C). | Sheltered office environment 50° F to 85° F (10° C to 30° C). |
| **Safety** | CE certified - UL listed (USA & Canada | CE certified - UL listed (USA & Canada). | CE certified - UL listing pending (USA & Canada). |
| **EMC** | EN 50 081-1 and EN 50 082-1 (Europe), FCC pt 15 curve A (USA) & CSA 08.8 curve A (Canada) | EN 50 081-1 and EN 50 082-1 (Europe), FCC pt 15 curve A (USA) & CSA 08.8 curve A (Canada) | EN 50 081-1 and EN 50 082-1 (Europe), FCC pt 15 curve A (USA) & CSA 08.8 curve A (Canada) |