



# Trusted identity for a safer world



# Trusted identity for every security application

Whatever your requirements for plastic card printing, the Magicard range of ID card printers offers the very best in image quality, security and innovation.

## Trusted for education

Magicard is the printer of choice for many educational facilities. With a suite of encoding and printing options, Magicard makes it easy to issue staff and student ID cards for campus access, lunch programs, library lending, cashless purchases, and attendance.



## Trusted for events

Exhibitions, conferences and hospitality events typically badge exhibitors, visitors, staff, press, and VIPs. Compact ID card printers, like the Magicard Pronto and Enduro+, are easy to use and set-up, making them ideal for any event.



## Trusted for business

Employee identification cards range from standard photo IDs to multi-use cards for building access, network login, time/attendance and payroll systems. Magicard printers offer a full range of solutions, including the extra visual security of HoloKote® watermark technology.



## Trusted for government programs

Government identification cards such as drivers' licenses mandate high levels of visual and electronic security. User data is written to the technology card at the time of printing and identifies individuals to prevent unauthorized or fraudulent use. MagiCard offers certified encoding and issuance units to create secure multi-use technology cards.



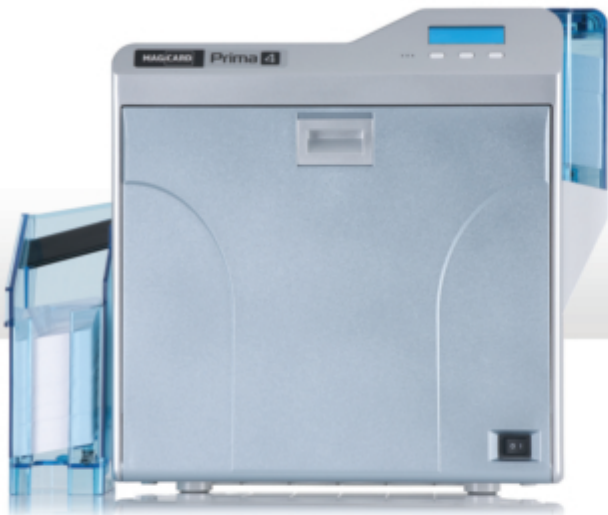
## Trusted for transportation

Heavily used for access control into sensitive areas; identification cards for operators, security staff, and maintenance crews commonly employ smart, RFID, or biometric technology. Due to the critical security requirements for transit facilities such as Airports, these cards provide the maximum level of logical and visual security against counterfeiting attempts. Custom technologies such as HoloKote and biometric encoding make MagiCard printers ideal for issuing badges to secure critical operational areas.



## Trusted for banking

The shift in the banking industry from central to localized issuance of pre-paid, debit and credit cards is being driven by a business need for improved customer service and more efficient card distribution. MagiCard printers facilitate instant issuance by offering a combination of high quality printing and security features such as EMV compliant encoding and lockable compartments.



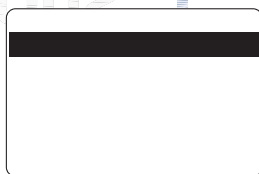
# Trusted security features



## Encoding options

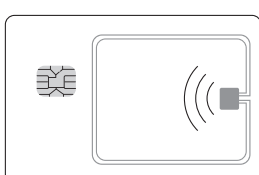
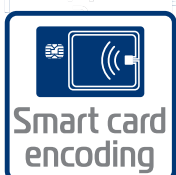
### Encoding options

Card encoding enables electronic data to be written to the card as it is being printed. Magicard printers support a wide range of integrated card encoding options:



### Magnetic stripe

All printers can be specified with ISO standard 7811 compatible HiCo encoding of magnetic stripe cards. Magicard's dual coercivity HiCo/LoCo magnetic stripe encoder offers encoding of all three tracks with total user format flexibility.



### Smart card encoding

ISO7816 contact chip encoding in combination with contactless encoding such as MIFARE, DESFire and iClass can be specified autonomously or in combination with a magnetic stripe encoder option. Other specialist encoding devices are available on request with all professional series printers.

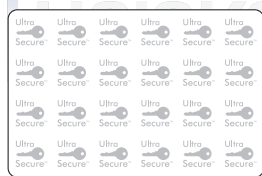
# HoloKote® - Extra security at no extra cost



## HoloKote®

Magicard's patented HoloKote technology is a secure watermark that is frosted onto the card surface during the normal print cycle using standard consumables (dye film and cards).

The HoloKote print process produces a watermark-like layer that can be visually verified when the card is tilted in the light. With all Magicard direct-to-card printers, the user can select from four standard secure HoloKote designs using the printer driver.



UltraSecure™ key



STANDARD

Interlocking rings



STANDARD

Globe



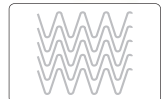
STANDARD

Cubes



RIO PRO ONLY

Waves



PRONTO & ENDURO+ ONLY



## Custom HoloKote®

For enhanced visual security, Custom HoloKote enables an organization to implement their own personalized logo or other security design. Custom HoloKote is printed in a grid pattern across the card surface and is only available on the Rio Pro.

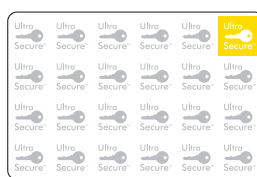
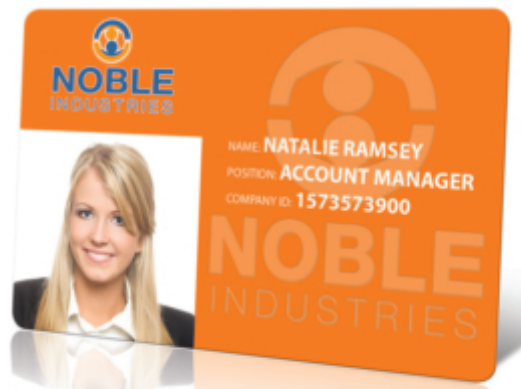


## Custom HoloKote Flex™

Custom HoloKote Flex offers the highest level of HoloKote security by enabling the customized watermark to be printed anywhere across the entire card surface. One standard design is included with the Rio Pro.



Standard HoloKote Flex™  
RIO PRO ONLY



## HoloPatch®

Exclusive to Magicard, HoloPatch card stock is enhanced with a highly reflective gold 'super diffuser' foil square that intensifies the visibility of any HoloKote logo.



# Our trusted warranty and support



UCP Warranty is available in the EU, North America and other selected countries and is subject to the observance of specific conditions of use and maintenance, as well as the use of certified 'Original Magicaard' dye films.

## The best warranty and support in the industry - UltraCoverPlus is our promise to keep you printing.

UltraCoverPlus is a market-leading 3-year unlimited warranty package included with all professional series card printers and includes:

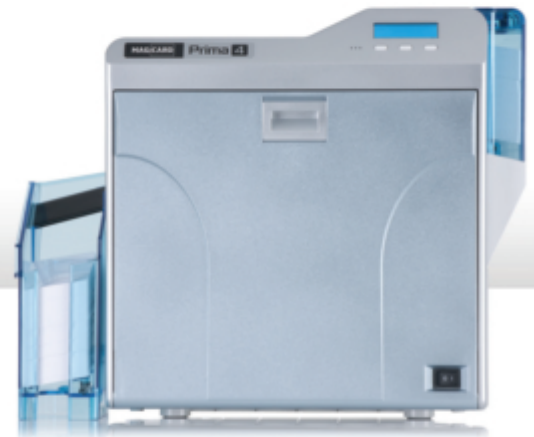
- Direct technical support by phone or email from Magicaard's experienced engineering team with technicians based across 5 continents.
- Free replacement of a damaged printhead no matter what the cause of failure
- Free loaner if a printer is shipped to our service center for repair
- Personal guidance on printer use



**Chris Pevny**  
USA Magicaard technical support team member



**Dave Grantham**  
UK Magicaard technical support team member



# Printer features



**Edge-to-edge**



## Edge-to-edge

Edge-to-edge full color printing produces a high quality 300dpi image right to the edge of the card. Available on all Magicard printers.



**Rewritable**



## Rewritable

Rewritable cards have one glossy side in PVC for color or monochrome dye sublimation printing and a matt finish side with a blue or black thermochromic sensitive material that can be reprinted up to 500 times.



**Duplex upgrade**



## Duplex upgrade

Buy now choose later – the single-sided models of the Enduro+ and Rio Pro are field-upgradable to dual-sided operation by installing a simple drop-in upgrade kit.



**ICC profiles**



## ICC Profiles

An ICC profile standardizes and controls color during the printing process. Magicard's ICC profiles ensure that color attributes of the source image are mapped accurately to the printer. This process underpins the superior printing and color reproduction qualities of both the Enduro+ and Rio Pro.



**Ethernet**



## Ethernet

Network connectivity enhances operational efficiency, especially for large facilities with multiple ID card printers such as government, universities and corporate campuses. Ethernet connectivity comes as standard with the Rio Pro and Prima 4 and is available as a drop-in field upgrade for the Enduro+.



**Printer lock**



## Printer locking

For additional on-site security, both the Rio Pro Secure and Prima 4 are available with locking features. The Prima 4 has a built-in electronic lock for both the door and input hopper. The Rio Pro Secure's door, input and output hoppers are all secured by physical locks.



Simply the best value color ID card printer.



### Overview

The Pronto is a quality dye-sublimation ID card printer at a great price. Incredibly easy to use with drop-in dye film and hand-fed card loading, the Pronto features a magnetic stripe encoding option and its HoloKote® visual security system offers a choice of 4 watermark designs.

### Key features

#### Printer

- Lightweight, compact and portable
- Convenient single or dual-sided hand feed
- Edge-to-edge single-sided printing
- Rewritable card printing technology
- Built-in USB connection
- Windows 2000 Professional (SP4), XP, Vista & 7 (32/64 bit compatible), Server 2003 R2 SP2, 2008 (32/64 bit compatible)
- Print speed: color 35 seconds, monochrome 7 seconds

#### Security

- Standard HoloKote visual security in 4 designs
- Prints on HoloPatch® cards for enhanced visual security
- Magnetic stripe encoding option
- Smart card encoding options:  
Contact chip, MIFARE, DESFire, iClass

### The Pronto is trusted for:

- Small business
- Retail
- Healthcare
- Club memberships
- Events

### Free 2 year warranty and support



2 years limited depot warranty.



STANDARD



STANDARD



STANDARD



STANDARD



OPTION



OPTION

### Specifications

#### Printer

Print technology	300 dpi dye sublimation/rewritable.
Print speed	35 seconds color, 7 seconds monochrome.
Card thickness	20 mil to 40 mil (0.51mm to 1.02mm).
Card capacity	Hand fed - 1 card at a time.
Printer interface	USB rev.1.1/USB 2.0.
Drivers/software	Windows 2000 Professional (SP4), XP, Windows Vista and 7 (32/64 bit compatible), Windows Server 2003 R2 SP2, Server 2008 (32/64 bit compatible).
Dimensions	8.4" W x 9.1" H x 10.6" D (215mm W x 233mm H x 270mm D).
Operating environment	Sheltered office environment 50°F - 85°F (10°C - 30°C).

#### Security

Use driver settings to activate HoloKote

Security watermark	Standard HoloKote (4 standard designs).
Gold seal	HoloPatch cardstock - ordered separately.
Magnetic stripe encoding	HiCo and LoCo encoder ISO std. 7811.
Smart card encoding	Contact chip, MIFARE, DESFire, iClass options.

#### Consumables

		Part No.
Dye film	100 image YMCKO dye film.	MA100YMCKO
	300 image YMCKO dye film.	MA300YMCKO
	600 image black resin dye film with overcoat.	MA600KO
	1000 image black resin dye film. (various colors available).	MA1000K
Cards	CR80 and CR79 ISO PVC blank, HiCo magnetic stripe, smart cards, self-adhesive, rewritable and HoloPatch cards.	

#### Variants

		Part No.
Pronto	Standard printer.	3649-0001
Pronto Mag	With ISO 7811 magnetic stripe encoder.	3649-0002
Pronto Smart	With combi (contact chip, MIFARE, DESFire and iClass) encoding.	3649-0003

# Enduro+

## BADGING SERIES

Upgrade your card printing.



## Overview

Available off-the-shelf as single or dual-sided, you can also upgrade the Enduro+ with unique drop-in field enhancements that instantly enable duplex printing and Ethernet connectivity. You can batch print, hand-feed, or even use rewritable cards. Security comes as standard with four HoloKote® watermark designs and can be further enhanced with magnetic stripe and smart card encoding options.

## Key features

### Printer

- Edge-to-edge single or dual-sided printing
- 100-card hopper, 30-card stacker for batch printing
- Field upgradable from single to dual-sided operation
- Hand-feed option for one-off printing
- Superior print quality enabled by ICC profiles
- LED color display with buttons for ease of use
- Rewritable card printing technology
- Built-in USB connection with Ethernet field-upgrade option
- Windows 2000 Professional (SP4), XP, Vista & 7 (32/64 bit compatible), Server 2003 R2 SP2, 2008 (32/64 bit compatible)
- Print speed: color 35 seconds, monochrome 7 seconds

### Security

- Standard HoloKote visual security in 4 designs
- Prints on HoloPatch® cards for enhanced visual security
- Magnetic stripe encoding option
- Smart card encoding options: Contact chip, MIFARE, DESFire, iClass

## The Enduro+ is trusted for:

- Schools and libraries
- Airports
- Membership ID
- Events
- Employee ID
- Card access systems

## Free 2 year warranty and support



2 years limited depot warranty.



STANDARD



OPTION

## Specifications

Printer		
Print technology	300 dpi dye sublimation/rewritable.	
Print speed	More than 100 full color cards per hour, 7 seconds monochrome.	
Card thickness	20 mil to 40 mil (0.51mm to 1.02mm).	
Card capacity	100 card feeder, 30 card stacker and hand-feed option.	
Printer interface	USB rev.1.1/USB 2.0. Ethernet option.	
Drivers/software	Windows 2000 Professional (SP4), XP, Windows Vista and 7 (32/64 bit compatible), Windows Server 2003 R2 SP2, Server 2008 (32/64 bit compatible).	
Dimensions	8.1" W x 9.2" H x 17.8" D (206mm W x 233mm H x 453mm D).	
Operating environment	Sheltered office environment 50°F - 85°F (10°C - 30°C).	
Security		
Security watermark	Use driver settings to activate HoloKote	
Gold seal	Standard HoloKote (4 standard designs).	
Magnetic stripe encoding	HoloPatch cardstock - ordered separately.	
Smart card encoding	HiCo and LoCo encoder ISO std. 7811.	
	Contact chip, MIFARE, DESFire, iClass options.	
Consumables		
Dye film	300 image YMCKO dye film. 250 image YMCKOK dye film (dual-sided). 600 image black resin dye film with overcoat. 1000 image black resin dye film (various colors available).	MA300YMCKO MA250YMCKOK MA600KO MA1000K
Cards	CR80 and CR79 ISO PVC blank, HiCo magnetic stripe, smart cards, self-adhesive, rewritable and HoloPatch cards.	
Variants		
Enduro+	Standard printer.	3633-9001
Enduro+ Mag	With ISO 7811 magnetic stripe encoder.	3633-9002
Enduro+ Smart	With combi (contact chip, MIFARE, DESFire and iClass) encoding.	3633-9005
Enduro+ Duo	Dual-sided printer.	3633-9021
Enduro+ Duo Mag	Dual-sided printer with ISO 7811 magnetic stripe encoder.	3633-9022
Enduro+ Duo Smart	Dual-sided printer with combi encoding.	3633-9025
Duplex upgrade kit	Dual-sided upgrade kit.	3633-0052
Ethernet upgrade kit	Ethernet upgrade kit.	3633-0096

The professional's choice for secure card printing.



### Overview

Built for professionals, the Rio Pro's superior print quality is complemented with a full range of options: single or dual-sided printing (with field-upgrade available), batch or one-off card printing, and secure encoding with magnetic stripe, contact, and contactless technologies. Built-in standard HoloKote® visual security can also be customized to an individual logo or security design.

### Key features

#### Printer

- Edge-to-edge single or dual-sided printing
- 100-card hopper, 70-card stacker for batch printing
- Field upgradable from single to dual-sided operation
- Hand-feed option for one-off printing
- Superior print quality enabled by ICC profiles
- Rewritable card printing technology
- Built-in USB and Ethernet connection
- Windows 2000 Professional (SP4), XP, Vista & 7 (32/64 bit compatible), Server 2003 R2 SP2, 2008 (32/64 bit compatible)
- Print speed: color 23 seconds, monochrome 6 seconds

#### Security

- Standard HoloKote with a choice of 5 watermark designs
- Custom HoloKote: customized watermark for improved security
- Prints on HoloPatch® cards for enhanced visual security
- Magnetic stripe encoding option
- Smart card encoding options: Contact chip, MIFARE, DESFire, iClass. Other encoders on request.

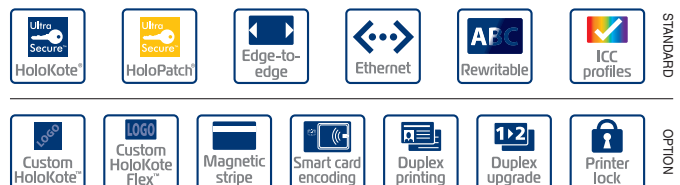
### The Rio Pro is trusted for:

- Government, schools and universities
- Bureau services
- Transit facilities and airports
- Banking and financial issuance

### Free 3 year warranty and support



The Rio Pro is supplied with a free, 3-year warranty with hassle-free printhead cover and loaner service.  
(Available in the EU, North America and other selected territories. Elsewhere 2 years limited depot warranty.)



### Specifications

Printer		
Print technology	300 dpi dye sublimation/rewritable.	
Print speed	More than 150 full color cards per hour. monochrome resin 6 seconds.	
Card thickness	20 mil to 50 mil (0.51mm to 1.27mm).	
Card capacity	100 card feeder, 70 card stacker and hand-feed option.	
Printer interface	USB rev.1, i/USB 2.0 compatible. Ethernet fitted as standard.	
Drivers/software	Windows 2000 Professional (SP4), XP, Windows Vista and 7 (32/64 bit compatible), Windows Server 2003 R2 SP2, Server 2008 (32/64 bit compatible).	
Dimensions	8.6" W x 9.8" H x 18.5" D (220mm W x 250mm H x 470mm D).	
Operating environment	Sheltered office environment 50°F - 85°F (10°C - 30°C).	
Security		
	Use driver settings to activate HoloKote	
Security watermark	Standard HoloKote® (4 standard designs) HoloKote Flex™ (1 standard design).	
Customized watermark	Custom HoloKote or Custom HoloKote Flex - ordered separately.	
Gold seal	HoloPatch® cardstock - ordered separately.	
Magnetic stripe encoding	HiCo and LoCo encoder ISO std. 7811.	
Smart card encoding	Contact chip, MIFARE, DESFire, iClass options. Other encoders available.	
Consumables		
Dye film	300 image YMCKO dye film. 250 image YMCKOK dye film (dual-sided). 600 image black resin dye film with overcoat.	
Cards	1000 image black resin dye film (various colors available). CR80 and CR79 ISO PVC blank, HiCo magnetic stripe, smart card, self-adhesive, rewritable and HoloPatch cards.	
	<b>Part No.</b>	
	MA300YMCKO MA250YMCKOK MA600KO MA1000K	
Variants		
Rio Pro	Standard printer.	3652-0001
Rio Pro Duo	Dual-sided printer.	3652-0021
Encoding options	Magnetic stripe, combi smart card encoding (contact chip, MIFARE, DESFire, iClass). Other encoders available.	Call for part numbers
Duplex upgrade kit	Dual-sided upgrade kit.	3633-0052
Custom HoloKote kit	Kit contains a CD to install the data and Custom HoloKote card.	HoloSet

Reverse-transfer laminating printer for the highest quality card issuance.



### Overview

Using reverse-transfer printing technology, the Prima 4 produces superb edge-to-edge cards with a glossy photo quality that is comparable to offset lithographic printing. Images are first printed onto a thin retransfer film as a 'reverse image' then heat transferred onto the card, making it ideal for smart cards and proximity cards where surfaces textures may be inconsistent.



### Key features

#### Printer

- Reverse-transfer technology for highest print quality
- Optional in-line laminator for added card durability and security
- Compatible with most card surface materials and thicknesses (10 mil to 40 mil/0.25mm to 1.02mm)
- Single or dual-sided printing right over the edge of the card
- Built-in USB and Ethernet connection
- Windows 2000 Professional (SP4), XP, Vista & 7 (32/64 bit compatible), Server 2003 R2 SP2, 2008 (32/64 bit compatible)
- Print speed: 80 cards per hour

#### Security

- Holographic lamination and UV printing
- Magnetic stripe encoding option
- Smart card encoding options: Contact chip, MIFARE, DESFire, iClass. Other encoders on request.
- Electronic door and hopper lock

### The Prima 4 is trusted for:

- Government identification and licenses
- Banking and financial issuance
- Transit facilities and airports
- Bureau services

### Free 3 year warranty and support



The Prima 4 is supplied with a free, 3-year warranty with hassle-free printhead cover and loaner service.

(Available in the EU, North America and other selected territories. Elsewhere 2 years limited depot warranty.)

STANDARD	STANDARD	STANDARD	OPTION	OPTION	OPTION	OPTION	OPTION

### Specifications

#### Printer

Print technology	300 dpi reverse-transfer.
Print speed	More than 80 full color cards per hour. Monochrome: 7 seconds per card.
Card thickness	10 mil to 40 mil (0.25 mm to 1.0 mm).
Card capacity	100 cards in feed tray, 100 cards output stacker.
Printer interface	USB 2.0 (high speed), Ethernet fitted as standard.
Drivers/software	Windows 2000 Professional (SP4), XP, Windows Vista and 7 (32/64 bit compatible), Windows Server 2003 R2 SP2, Server 2008 (32/64 bit compatible).
Dimensions	13.5" W x 12.6" H x 13" D (343mm W x 320mm H x 330mm D).
Operating environment	Sheltered office environment 50°F - 85°F (10°C - 30°C).

#### Security

Security features	Holographic laminates (requires lamination module) and UV film options.
Magnetic stripe encoding	HiCo encoder ISO std. 7811 (optional).
Smart card encoding	Contact chip, MIFARE, DESFire, iClass options. Other encoders available.

#### Consumables

		Part No.
Dye film	Set of YMCK dye film and retransfer film - 1000 images. 750 YMCKK full-color one side and black on reverse. 750 YMCK-UV full-color and UV.	Prima 431 Prima 433 Prima 434 Prima 436
Retransfer film	1000 images (must be paired with dye film for printing).	
Laminates	0.6 mil and 1 mil laminates available. Clear and holographic.	
Cards	PVC, ABS, PET, PVH, and polycarbonate ISO CR80 sized cards.	

#### Variants

		Part No.
Prima 4 Uno	Standard printer.	Prima 401
Prima 4 Duo	Dual-sided printer.	Prima 402
Inline laminator	Compact, single or dual-sided.	Prima 451/452
Encoding options	Magnetic stripe, combi smart card encoding (contact chip, MIFARE, DESFire, iClass). Other encoders available.	Call for part numbers

# Rio PRO Xtended

SPECIALIST SERIES



The Rio Pro Xtended allows users to print on cards up to 5.51" long and is a perfect tool for retail and event operations.

## Feature summary

- Color print up to 4.33 x 2.12" cards
- Monochrome print on pre-printed cards up to 5.51" long
- Adjustable card feeder
- 50mm wide variant for product labelling
- Standard and Custom HoloKote watermarks, HoloPatch cards.
- Multiple encoding options

## The Rio Pro Xtended is trusted for:

- Events/ticketing
- Product labelling
- Loyalty and membership cards with break-off tabs

### Printer

Print technology	300 dpi long format color dye sublimation and monochrome thermal printing.
Print area	Color single-print mode: 3.38 x 2.12" / 3.38 x 1.97" Color double-print mode: 4.33 x 2.12" / 4.33 x 1.97" Monochrome: 5.51 x 2.12" / 5.51 x 1.97"
Card thickness	20 mil to 50 mil (0.51mm to 1.27mm).
Card capacity	100-card Xtended adjustable feeder (3.38-5.51 x 2.12"), 70-card Xtended stacker (5.51 x 2.12" card capacity).
Printer interface	USB rev.1.1/USB 2.0 compatible. Ethernet fitted as standard.
Drivers/software	Windows 2000 Professional (SP4), XP, Windows Vista and 7 (32/64 bit compatible), Windows Server 2003 R2 SP2, Server 2008 (32/64 bit compatible).
Dimensions	8.6" W x 9.8" H x 24.1" D (220mm W x 250mm H x 612mm D).
Operating environment	Sheltered office environment 50°F - 85°F (10°C - 30°C).

### Security

Security watermark	Standard HoloKote® (4 standard designs) HoloKote Flex™ (1 standard design).
Customized watermark	Custom HoloKote or Custom HoloKote Flex - ordered separately.
Gold seal	HoloPatch® cardstock - ordered separately.
Magnetic stripe encoding	HiCo and LoCo encoder ISO std. 7811.
Smart card encoding	Contact chip, MIFARE, DESFire, iClass options. Other encoders available.

### Consumables

		Part No.
Dye film	300 image YMCKO dye film.	MA300YMCKO
	1000 image black resin dye film (various colors available).	MA1000K
Cards	CR80 and CR79 ISO PVC blank, HiCo magnetic stripe, smart cards, self-adhesive, rewritable and HoloPatch cards.	
	1000 Blank Xtended Cards 4.33 x 2.12"	M9007-432
	1000 Blank Xtended Cards 5.51 x 2.12"	M9007-433

### Variants

		Part No.
Rio Pro Xtended	Standard printer.	3652-0008
Rio Pro Xtended 50	Rio Pro Xtended Printer 1.97" (50mm) card width.	3652-0009
Encoding options	Magnetic stripe, combi smart card encoding (contact chip, MIFARE, DESFire, iClass). Other encoders available.	Call for part numbers
Custom HoloKote kit	Kit contains a CD to install the data and Custom HoloKote card.	HoloSet



The Rio Pro Xtended is supplied with a free, 3-year warranty with hassle-free printhead cover and loaner service.

(Available in the North America, EU and other selected territories. Elsewhere 2 years limited depot warranty.)

# Rio PRO Secure

SPECIALIST SERIES



The Rio Pro Secure is a trusted solution for the localized issuance of secure cards, offering high-quality personalized printing, in-line encoding and a flexible interface reinforced by physical and logical security.

## Feature summary

- Secured opaque hopper, opaque stacker and lid
- Kensington lock slot in base
- Standard and Custom HoloKote watermarks, HoloPatch cards.
- Full range of encoding options: magnetic stripe, multiple smart card options

## The Rio Pro Secure is trusted for:

- Secure smart card issuance
- Localized issuance of financial cards

### Printer

Print technology	300 dpi dye sublimation/rewritable.
Print speed	More than 150 full color cards per hour. Monochrome: 6 seconds per card.
Card thickness	20 mil to 50 mil (0.51mm to 1.27mm).
Card capacity	100 card feeder, 70 card stacker and hand-feed option.
Printer interface	USB rev.1.1/USB 2.0 compatible. Ethernet fitted as standard.
Drivers/software	Windows 2000 Professional (SP4), XP, Windows Vista and 7 (32/64 bit compatible), Windows Server 2003 R2 SP2, Server 2008 (32/64 bit compatible). APIs on request.
Dimensions	8.6" W x 9.8" H x 18.5" D (220mm W x 250mm H x 470mm D).
Operating environment	Sheltered office environment 50°F - 85°F (10°C - 30°C).

### Security

Printer security	Locking input hopper, locking lid and secured output stacker cover.
Security watermark	Standard HoloKote® (4 standard designs) HoloKote Flex™ (1 standard design).
Customized watermark	Custom HoloKote or Custom HoloKote Flex - ordered separately.
Gold seal	HoloPatch® cardstock - ordered separately.
Magnetic stripe encoding	HiCo and LoCo encoder ISO std. 7811.
Smart card encoding	Contact chip, MIFARE, DESFire, iClass options. Other encoders, including EMV, available.

### Consumables

		Part No.
Dye film	300 image YMCKO dye film.	MA300YMCKO
	250 image YMCKOK dye film (duplex).	MA250YMCKOK
	600 image black resin dye film with overcoat.	MA600KO
Cards	1000 image black resin dye film (various colors available).	MA1000K
	CR80 and CR79 ISO PVC blank, HiCo magnetic stripe, smart card, self-adhesive, rewritable and HoloPatch cards.	

### Variants

		Part No.
Rio Pro Secure	Standard printer.	3652-9010
Rio Pro Secure Duo	Dual-sided printer.	3652-9030
Encoding options	Magnetic stripe, combi smart card encoding (contact chip, MIFARE, DESFire, iClass). Other encoders, including EMV, available.	Call for part numbers
Duplex upgrade kit	Dual-sided upgrade kit.	3633-0052
Custom HoloKote kit	Kit contains a CD to install the data and Custom HoloKote card.	HoloSet



The Rio Pro Secure is supplied with a free, 3-year warranty with hassle-free printhead cover and loaner service.

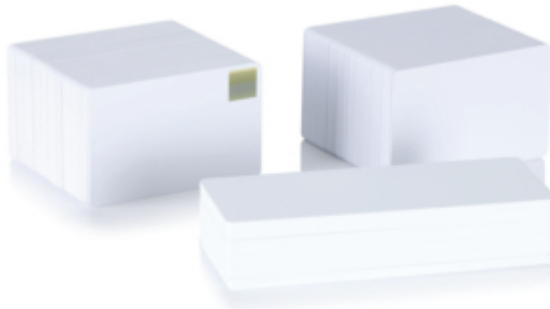
(Available in the North America, EU and other selected territories. Elsewhere 2 years limited depot warranty.)

# Accessories

## Cards

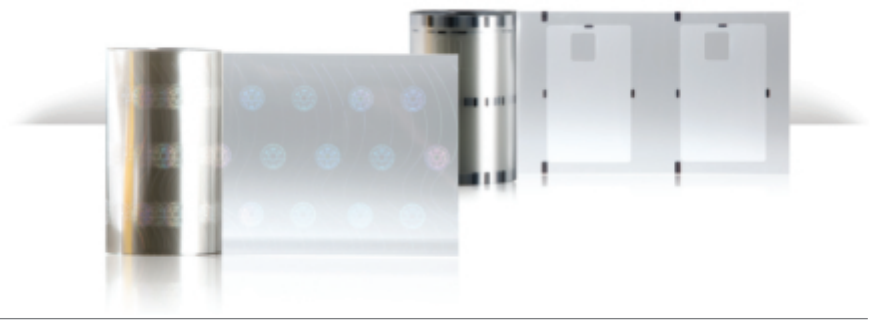
Magocard offers a full range of approved cards, optimized to give you the best possible print quality and reliability.

The highly reflective gold 'super diffuser' seal on our unique HoloPatch cards accentuates the HoloKote watermark giving it a similar appearance to credit card hologram seals.



## Laminates

A range of laminates are available for the Prima 4, including patch film and both standard and bespoke holographic overlays.



## Field upgrade kits

Our easy-to-use field upgrades enable you to enhance your printer's functionality and security.

These kits include drop-in upgrades for single to dual-sided printing for both the Enduro+ and the Rio Pro. The Enduro+ can also be enabled for Ethernet connectivity in the field.

A Custom HoloKote kit for the Rio Pro enables you to upgrade security by printing a unique watermark or security design on every card.



## Cleaning kits

The most important thing you can do to ensure card print quality and the ongoing reliable operation of your Magocard printer is to perform regular cleaning cycles to remove dust and debris.

The Magocard approved cleaning system includes:

- A cleaning card to remove dirt from the print path - used after every 300 prints
- A disposable cleaning roller - replaced after every 1000 prints
- A cleaning pen - used to clean the printhead for optimal quality.



# Magocard printer specification matrix

	Pronto	Enduro+	Rio Pro	Prima 4
<b>Printing</b>				
Print technology	Dye sublimation/rewritable	Dye sublimation/rewritable	Dye sublimation/rewritable	Reverse-transfer
Feed system	Manual	Manual/automatic	Manual/automatic	Automatic
Card capacity: hopper input/ stacker output	-	100/30	100/70	100/100
Single-sided printer	3649-0001	3633-9001	3652-0001	Prima 401
Dual-sided printer	-	3633-9021	3652-0021	Prima 402
Upgrade (single to dual-sided)	-	3633-0052	3633-0052	-
<b>Encoding / variants</b>				
Magnetic stripe encoding ISO 7811 - tracks 1, 2 & 3	3649-0002 (Pronto Mag)	3633-9002 (Enduro+) 3633-9022 (Enduro+ Duo)	3652-0002 (Rio Pro) 3652-0022 (Rio Pro Duo)	Prima 414 (double-sided)
Magnetic stripe HiCo / LoCo	●	●	●	●
Smart card encoding (contact chip, MIFARE, DESFire & iClass)	●	●	●	●
Smart card contactless LEGIC encoding	-	-	●	●
Other smart card configurations available on request (Gemplus-Etag-Inside Technologies)	-	-	●	●
Laminator	-	-	-	● (Module)
<b>Connectivity and drivers</b>				
USB connection	●	●	●	●
Ethernet connection	-	3633-0096	●	●
Windows 2000™/2003™/XP™/Vista™/7™ (32/64 bit)	●	●	●	●
<b>Warranty</b>				
2 year limited	●	●	-	-
3 years UltraCoverPlus - (FREE loaner service)	-	-	●	●
Printhead guarantee	-	-	● 3 years	● 3 years
<b>Visual security</b>				
HoloKote® watermark - standard design	● x4	● x4	● x5	-
HoloKote watermark - custom design	-	-	●	-
Laminate (custom and stock holographic)	-	-	-	●
UV film	-	-	-	●
HoloPatch® cards	●	●	●	-
<b>Print speed</b>				
Color (seconds)	35	35	23 (fast mode)	35-40 (depending on settings)
Monochrome (seconds)	7	7	6	-
<b>Card thickness</b>				
mm	0.51 to 1.02	0.51 to 1.02	0.51 to 1.27	0.25 to 1.02
mil	20 to 40	20 to 40	20 to 50	10 to 40
<b>Dimensions</b>				
Width x height x depth : mm	215 x 233 x 270	206 x 233 x 453	220 x 250 x 470	343 x 320 x 330
Width x height x depth : inch	8.4 x 9.1 x 10.6	8.1 x 9.2 x 17.8	8.6 x 9.8 x 18.5	13.5 x 12.6 x 13
Weight kg	4.4	5.5	4.9	15.5
Weight lb	9.7	12	10.8	34.1
<b>Maintenance</b>				
Cleaning kit	CK1	3633-0053	3633-0053	Prima 491

● = Standard  
● = Option



# Original Magicard dye film



At Magicard our goal is to keep things simple. That's why all of our direct-to-card printers use the same type of dye film. Regardless of which model you own, our film is easy to install and hassle-free. Original Magicard dye film is exclusively designed for Magicard printers to ensure sharp, high quality images and text. Tested and approved by Magicard engineers, only original

Magicard dye film offers the best performance and extends your printer's lifespan.

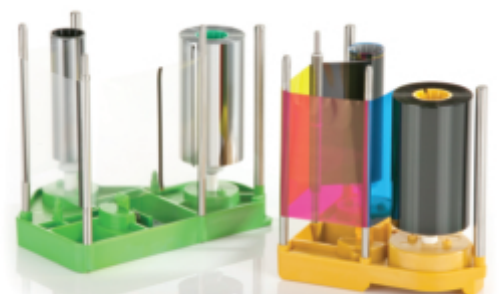
- Common across the full range of direct-to-card printers
- Top quality, edge-to-edge printing
- Simple drop-in loading
- Auto-detection and set up



	Print capacity	Product code	Pronto	Enduro+	Rio Pro
Color dye film with overcoat panel (YMCKO)	300	MA300YMCKO	●	●	●
Color dye film with overcoat panel (YMCKO)	100	MA100YMCKO	●	●	●
Double-sided dye film, prints color on one side, black on reverse (YMCKOK)	250	MA250YMCKOK	–	●	●
Black resin dye film with overcoat panel (KO)	600	MA600KO	●	●	●
Monochrome resin dye film - Black	1000	MA1000K-Black	●	●	●
Monochrome resin dye film - White	1000	MA1000K-White	●	●	●
Monochrome resin dye film - Silver	1000	MA1000K-Silver	●	●	●
Monochrome resin dye film - Gold	1000	MA1000K-Gold	●	●	●
Monochrome resin dye film - Blue	1000	MA1000K-Blue	●	●	●
Monochrome resin dye film - Red	1000	MA1000K-Red	●	●	●
Monochrome resin dye film - Green	1000	MA1000K-Green	●	●	●

# Prima 4 reverse-transfer film

	Print capacity	Product code
Set of YMCK dye film and reverse transfer film	1000	Prima 431
Color dye film with additional black panel (YMCKK) - prints color on one side and black on reverse	750	Prima 433
Color dye film with UV panel (YMCK-UV)	750	Prima 434
Re-transfer film (clear) - pair with color films	1000	Prima 436
Custom holographic patch laminate films and overlay films		Special order
Patch laminate (clear or holographic) for Prima laminator		Call for part numbers
Overlay thin film (holographic) for Prima laminator		Call for part numbers



Ultra Electronics is an internationally successful defence, security, transport and energy company with a long, consistent track record of development and growth.

Ultra places great importance on building long-term relationships with customers, suppliers and strategic teaming partners. Satisfying our customers is vital to our future. Listening to our customers and understanding our market place ensures that our resources are directed towards the development of new products and services which meet real needs.


**Major market sectors**


- Battlespace IT systems and equipment
- Cyber security
- Sonar systems
- Equipment for civil and military aircraft
- Specialist equipment for defense and security applications
- Specialist systems and equipment for the transport and energy sectors

 **Ultra Electronics Card Systems Inc.**  
North American Sales & Support Center  
6711 - 176th Avenue NE Redmond, WA 98052  
Toll free: 877 236 0933  
Tel: +1 (425) 556 9708  
Fax: +1 (425) 556 3962  
Email: americas@magicard.com

 **Ultra Electronics Card Systems**  
Hampshire Road, Weymouth,  
Dorset DT4 9XD, United Kingdom  
Tel: +44 (0) 1305 767 100  
Fax: +44 (0) 1305 777 904  
Email: info@magicard.com

 **Ultra Electronics Card Systems - China**  
Room 902 Zhonghuang Tower,  
No.1007 Second Zhongshan Road (S)  
Xuhui District Shanghai 2000030, P.R.C.  
Tel: +86-21-6457 3509  
Fax: +86-21-6457 3509  
Email: china@magicard.com

 **Ultra Electronics Card Systems - Middle East**  
4WB (West Wing) Office - 652, Dubai Airport Free Zone,  
PO Box: 54974, Dubai, United Arab Emirates  
Tel: +971 4 260 2930  
Fax: +971 4 260 2931  
Email: uae@magicard.com

 **Ultra Electronics Card Systems - Australasia**  
12 Douglas Drive, Mawson Lakes  
Adelaide SA 5095, Australia  
Tel: +61 8 8169 1200  
Fax: +61 8 8169 1201  
Email: australasia@magicard.com.au



Magocard, HoloKote, Custom HoloKote, HoloPatch, HoloKote Flex, Pronto, Enduro+ and Rio Pro are trademarks or registered trademarks of Ultra Electronics Limited. All other trademarks, brand names, or product names belong to their respective holders. The information contained in this document reflects the current state of design and we reserve the right to change the specification without notice or obligation.