

MAGICARD®

ID card printers for every security application



www.magicard.com

Ultra
ELECTRONICS

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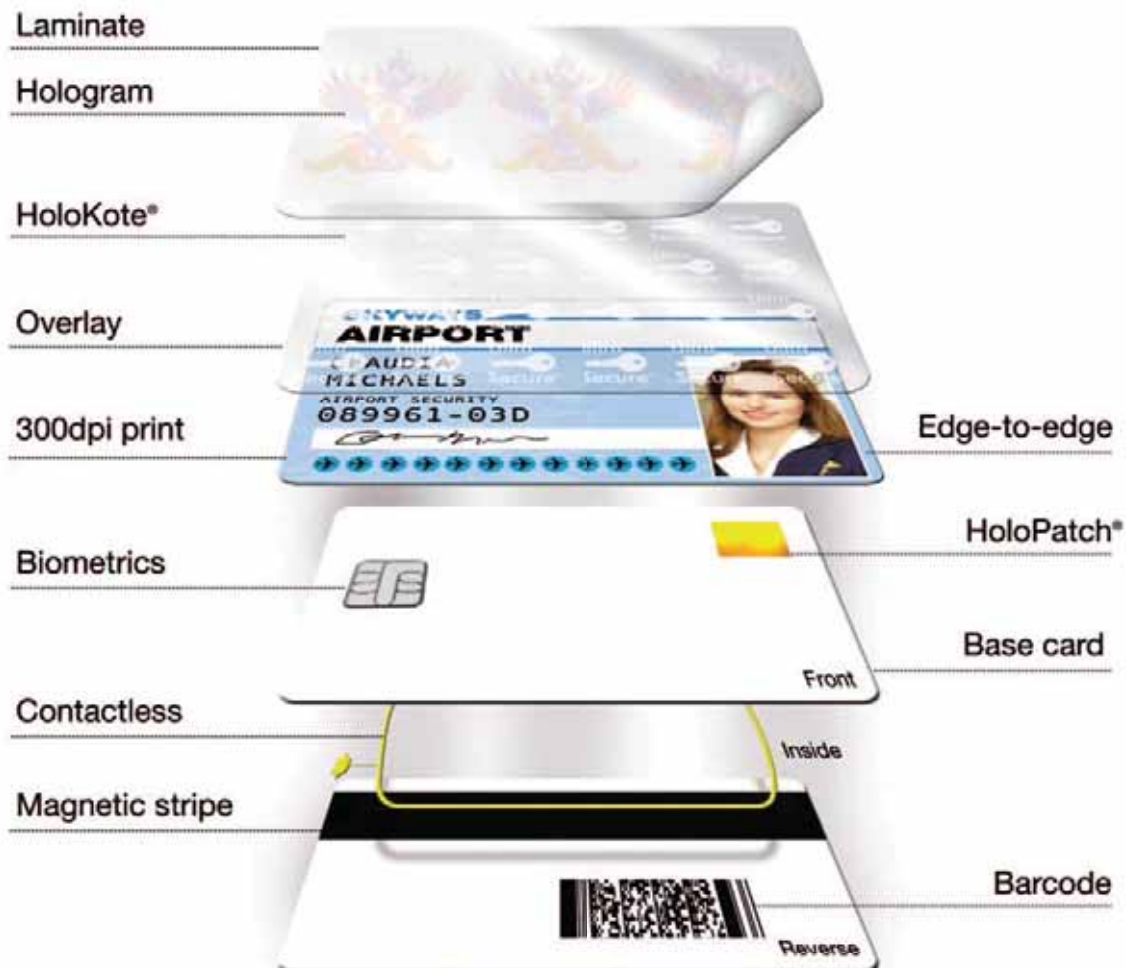
Secure ID card printers

MAGICARD

Secure ID card printers

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

It's all about the card...



ID or identity cards, as their name implies, are used to identify individuals. Common applications include company ID cards, access control cards, membership cards, retail loyalty cards and government cards, such as driving licences.

ID cards are different from many other types of common plastic cards, such as credit cards, because they are personalised to individual and organisational needs. Personalisation means photos on the card, people's names, organisation names, but can also extend into signatures, barcodes, and other forms of identification. Many cards nowadays also have electronic means of identification, such as embedded chips or magnetic stripe.

HoloKote® - Extra security at no extra cost.

All direct to card Magicard ID card printers have a built-in HoloKote visual security feature, this exclusive technology prints standard or custom watermark security, at no extra cost per card.

How do HoloKote® and HoloPatch® work together as a visible security feature?

The unique HoloKote feature is daylight visible by tilting the card to view the transparent anti-counterfeiting watermark. For even greater security, HoloPatch cards combined with HoloKote provide a distance-visible security mark enabling a security guard or colleague to easily verify badge authenticity from a distance of six feet or more. It's the ultimate in card security simplicity.

How HoloKote® is printed onto the card.

Colour cards are printed using a thermal transfer YMCKO dye film. After the colour image has been printed onto the card, the clear 'O' panel is applied to protect the image from fading or scratching. Magicard's direct to card printer models use the unique HoloKote facility to 'frost' a security image into the clear overcoat during the print process. This is a patented Magicard feature and unlike most other security marks, it involves no extra cost to produce on the card.

No security - CLEAR OVERCOAT



Security - STANDARD HOLOKOTE (Ultra Secure)



High security - CUSTOM HOLOKOTE FLEX



Added visibility - CUSTOM HOLOKOTE with HOLOPATCH



The built-in HoloKote watermark is a user option controlled by driver settings. Custom HoloKote watermarks are ordered separately.

Printer features



HoloKote®

The Magicard patented built-in HoloKote security watermark. Prints in a grid pattern across the entire card surface and is included free with every Pronto, Enduro and Rio Pro printer.



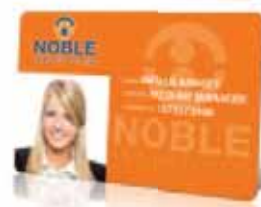
Custom HoloKote®

A customisable anti-counterfeiting watermark printed in a grid pattern across the entire card surface.



Custom HoloKote FLEX™

A fully flexible and customisable anti-counterfeiting watermark printed across the entire card surface. Custom security for your cards only.



HoloPatch®

Exclusive to Magicard, HoloPatch card stocks have a highly reflective gold 'super diffuser' foil square that enhances the visibility of the overprinted HoloKote logo.



Edge-to-edge

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



Rewritable

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



Duplex upgrade

Buy now choose later – the single-sided versions of the Enduro and Rio Pro are field upgradable to double-sided operation by installing an upgrade kit.



Card encoding



Card encoding enables electronic data to be written to the card as it is being printed.

Magicard ID card printers support a wide range of in-printer card encoding:



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 option offers encoding of all three tracks with total user format flexibility.



Contact chip encoding

In Magicard's professional series, an optional ISO7816 internal smart card chip encoding contact station can be specified autonomously or in combination with a magnetic stripe encoder option.



Contactless encoding

Various contactless smart card encoding options such as Mifare, Desfire, iClass and Legic are also available in professional series printers.



Combi encoding

Combi encoding, contact and contactless combined, is supported by all printers.



Warranty



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 the professional series of card printers and includes:

- Direct technical support from Magicard's experienced engineering team
- Hassle-free replacement printheads
- A FREE loan replacement if the printer requires depot service



Dave Grantham Magicard technical support team member



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 Magicard' dye films.

Web

For more information visit www.magicard.com

Simply the best value colour ID card printer. Now with rewritable technology as standard.



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 built-in HoloKote® visual security system offers a choice of 4 watermark designs.

Key features

PRINTER

- Lightweight, compact and portable
- Convenient single or double-sided hand feed
- Rewritable card printing technology
- Edge-to-edge single-sided printing
- 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: colour 35 seconds, monochrome 7 seconds

SECURITY

- Standard HoloKote visual security in 4 designs
- Prints on HoloPatch® cards for enhanced visual security

ENCODING

- Magnetic stripe encoding option
- Combi (contact chip, Mifare, Desfire, iClass) encoding option

The Pronto is ideal for:

- Corporate
- Retail
- Health care
- Members' sports club
- Events

Free 2 year warranty and support



Two years limited depot warranty, (North America and EU only).
Elsewhere 1 year limited warranty.



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Specifications

Printing

Print technology	Dye sublimation/rewritable.
Print speed	35 seconds colour, 7 seconds monochrome.
Card thickness	0.51mm to 1.02mm (20 mil to 40 mil).
Card capacity	Hand fed - 1 card at a time.

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 colours available), MA1000K
Cards	CR80 and CR79 ISO PVC blank, HiCo magnetic stripe, self-adhesive, rewritable and HoloPatch cards

Security

	Use driver settings to activate HoloKote
Security watermark	Standard HoloKote (4 standard designs).
Gold seal	HoloPatch cardstock - ordered separately.

Encoding

	Please specify when ordering
Magnetic stripe	HiCo and LoCo encoder ISO std. 7811.
Smart card encoding	Combi (contact chip, Mifare, Desfire, iClass) option.

Printer

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	215mm W x 233mm H x 270mm D (8.4" W x 9.1" H x 10.6" D).
Operating environment	Sheltered office environment 10°C - 30°C (50°F - 85°F).

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

The single to dual-sided upgradable printer for plastic cards.



Overview

The Enduro printer offers you flexibility for batch or hand fed printing. Order it single or double-sided or upgrade the single-sided Enduro with a unique drop-in field enhancement - install the double-sided upgrade kit to instantly enable duplex printing. The Enduro offers a magnetic stripe encoding option and HoloKote® visual security in 4 watermark designs.

Key features

PRINTER

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

SECURITY

- Standard HoloKote visual security in 4 designs
- Prints on HoloPatch® cards for enhanced visual security

ENCODING

- Magnetic stripe encoding option
- Combi (contact chip, Mifare, Desfire, iClass) encoding option

The Enduro is ideal for:

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

Free 2 year warranty and support



Two years limited depot warranty, (North America and EU only). Elsewhere 1 year limited warranty.



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Specifications

Printing

Print technology	Dye sublimation/rewritable
Print speed	35 seconds colour, 7 seconds monochrome
Card thickness	0.51mm to 1.02mm (20 mil to 40 mil)
Card capacity	100 card feeder, 30 card stacker and hand-feed option.

Consumables

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

Security

Security watermark	Use driver settings to activate HoloKote
Gold seal	Standard HoloKote (4 standard designs). HoloPatch cardstock - ordered separately.

Encoding

Magnetic stripe	HiCo and LoCo encoder ISO std. 7811.
Smart card encoding	Combi (contact chip, Mifare, Desfire, iClass) option.

Printer

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	205mm W x 233mm H x 453mm D (8.1" W x 9.2" H x 17.8" D).
Operating environment	Sheltered office environment 10°C - 30°C (50°F - 85°F).

Variants

	Part No.	
Enduro	Standard printer.	3633-0001
Enduro Mag	With ISO 7811 magnetic stripe encoder.	3633-0002
Enduro Smart	With combi (contact chip, Mifare, Desfire and iClass) encoding.	3633-0005
Enduro Duo	Double-sided printer.	3633-0021
Enduro Duo Mag	Double-sided printer with ISO 7811 magnetic stripe encoder.	3633-0022
Enduro Duo Smart	Double-sided printer with combi encoding.	3633-0025
Upgrade kit	Double-sided upgrade kit.	3633-0052

The professional's choice for secure card printing



Overview

Built for professionals, the Rio Pro's superior card printing quality is complemented with a full range of options: single or double-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® can also be customised to an individual logo or security design.

Key features

PRINTER

- Superior print quality enabled by ICC profiles
- Edge-to-edge single or double-sided printing
- Field upgradable from single to double-sided operation
- 100-card hopper, 70-card stacker for batch printing
- Easy-to-use 4 line LED colour display
- Hand-feed option for one-off printing
- Built-in USB and Ethernet connection
- Rewritable card printing technology
- Windows 2000 Professional (SP4), XP, Vista & 7 (32/64 bit compatible), Server 2003 R2 SP2, 2008 (32/64 bit compatible)
- Print speed: colour 23 seconds, monochrome 6 seconds

SECURITY

- Standard HoloKote with a choice of 5 watermark designs
- Custom HoloKote: customised watermark for total security
- Prints on HoloPatch® cards for enhanced visual security

ENCODING

- Full range of encoding options: magnetic stripe, barcode, contact and contactless

The Rio Pro is ideal for:

- Government, schools and universities
- Airports/transportation
- Banking/financial
- Bureau services

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 12 months limited warranty.)



Specifications

Printing		
Print technology	Dye sublimation/rewritable.	
Print speed	Colour 23 seconds, monochrome resin 6 seconds (fast mode)	
Card thickness	0.31mm to 1.27mm (20 mil to 50 mil)	
Card capacity	100 card feeder, 70 card stacker and hand-feed option.	
Consumables		
Dye film	300 image YMCKO dye film. 250 image YMCKOK dye film (double-sided). 600 image black resin dye film with overcoat. 1000 image black resin dye film (various colours available).	
Cards	CR80 and CR79 ISO PVC blank, HiCo magnetic stripe, self-adhesive, rewritable and HoloPatch cards.	
Security		
Security watermark	Standard HoloKote® (4 standard designs) HoloKote Flex™ (1 standard design).	
Customised watermark	Custom HoloKote or Custom HoloKote Flex - ordered separately.	
Gold seal	HoloPatch® cardstock - ordered separately.	
Encoding		
Magnetic stripe	HiCo and LoCo encoder ISO std. 7811.	
Smart card encoding	Combi (contact chip, Mifare, Desfire, iClass) option. Other encoders available.	
Printer		
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	220mm W x 250mm H x 470mm D (8.6" W x 9.8" H x 18.5" D).	
Operating environment	Sheltered office environment 10°C - 30°C (50°F - 85°F).	
Variants		
Rio Pro	Standard printer.	
Rio Pro Duo	Double-sided printer.	
Encoding options	Magnetic stripe, combi smart card encoding (contact chip, Mifare, Desfire, iClass). Other encoders available.	
Upgrade kit	Double-sided upgrade kit.	
Custom HoloKote kit	Kit contains a CD to install the data and Custom HoloKote card.	
		Part No. 3652-0001 3652-0021 Call for part numbers 3633-0052 HoloSet

Prima 4

PROFESSIONAL SERIES

Highest print quality, reverse-transfer laminating ID card printer



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 litho. Images are printed onto a thin retransfer film in a 'reverse image' then heat transferred onto the card, making it ideal for smart cards and proximity cards where surfaces may be inconsistent.

Key features

PRINTER

- Reverse-transfer for highest print quality
- Optional in-line laminator for card durability
- Compatible with most card surface materials and thicknesses (0.25mm to 1.02mm/10 mil to 40 mil)
- Single or double-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

ENCODING

- Full range of encoding options: magnetic stripe, barcode, contact and contactless

The Prima 4 is ideal for:

- Government/national ID/driving licences
- Banking/financial
- Airports/transportation
- 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 12 months limited warranty)



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Specifications

Printing

Print technology	Reverse-transfer
Print speed	80 cards per hour
Card thickness	0.25 mm to 1.0 mm (10 mil to 40 mil)
Card capacity	100 cards in feed tray, 100 cards output stacker

Consumables

		Part No.
Dye film	Set of YMCK dye film and retransfer film - 1000 images, 750 YMCKK full-colour one side and black on reverse, 750 YMCK-UV full-colour and UV, 1000 images (must be paired with dye film for printing)	Prima 431 Prima 433 Prima 434 Prima 436
Retransfer film	0.6 mil and 1 mil laminates available. Clear and holographic.	
Laminates	PVC, ABS, PET, PVH, and polycarbonate ISO CR10 sized cards	
Cards		

Security

Security features	Holographic laminates (requires lamination module) and UV film options.
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Encoding

Magnetic stripe	HiCo encoder ISO std. 7811 (optional)
Smart card encoding	Combi (contact chip, Mifare, Desfire, iClass) option. Other encoders available.

Printer

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	343mm W x 320mm H x 330mm D (13.5" W x 12.6" H x 13" D)
Operating environment	Sheltered office environment 10°C - 30°C (50°F - 85°F)

Variants

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

Card applications

Card access systems

Access control systems permit different levels of entry and can monitor when people have entered and exited facilities such as buildings, secure rooms, car parking and computer systems. Magicard printers fitted with the appropriate encoder will write user data to a card's magnetic stripe or smart chip at the time of printing.

Employee ID cards

Employee identification cards range from standard photo IDs to multi-use cards for building access, network login, time/attendance and payroll systems. The Magicard range offers a full solution, including complete protection against counterfeiting by using the exclusive, low cost, HoloKote® watermark technology or a holographic laminate.

Student ID cards

Magicard is the printer of choice for many educational facilities - beyond staff and student identification, cards are used for meal subsidy, library access and lending, cashless purchases, and attendance. In universities they are also used for clubs and societies, sports facilities, and as a financial tool.

Airport cards

Heavily used for access control into sensitive areas, airport cards for pilots, custom officials and baggage control staff commonly employ smart, RFID, or biometric technology. Due to the high potential risk, these cards provide the maximum level of logical and visual security against counterfeiting attempts.

Driver licencing

Driver licences mandate high levels of visual and electronic security. Visual security is important as driver licences are often used as general ID cards for retail purchases, travel and homeland security. Electronic security, in the form of user data held on the card, securely identifies individuals to prevent fraudulent use. Magicard's professional series printers offer Custom HoloKote watermarks and holographic laminates, with a full range of optional smart card encoders.

Conference badges

Exhibitions, conferences and hospitality events need to badge exhibitors, visitors, staff, press, and VIPs. Plastic cards offer significant advantages over paper-based systems - they can be used to track visitor traffic and attendance and to give a more professional appearance to the event. Compact ID card printers, like the Magicard Pronto and Enduro, are easy to use and set-up, making them ideal for all types of events.



Magicard printer specification matrix

	Pronto	Enduro	Rio Pro	Prima 4
Printing				
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	3633-0001	3652-0001	Prima 401
Double-sided printer		3633-0021	3652-0021	Prima 402
Upgrade (single to double-sided)		3633-0052	3633-0052	
Encoding / variants				
Magnetic stripe encoding ISO 7811 - tracks 1, 2 & 3	3649-0002 (Pronto Mag)	3633-0002 (Enduro) 3633-0022 (Enduro Duo)	3652-0002 (Rio Pro) 3652-0022 (Rio Pro Duo)	Prima 421 (single-sided)
Magnetic stripe HiCo / LoCo	●	●	●	●
Combi-encoding (Contact chip, MiFare, Desfire & iClass)	●	●	●	●
Contactless Logic encoding			●	●
Other configurations available on request (Gemplus-Étag-Inside Technologies)			●	●
Laminator				● (Module)
Connectivity and drivers				
USB connection	●	●	●	●
Ethernet connection			●	●
Windows 2000™/2003™/XP™/Vista™/7™ (32/64 bit)	●	●	●	●
Warranty				
2 year limited	●	●		
3 years UltraCoverPlus - (FREE loaner service)			●	●
Printhead guarantee			3 years	3 years
Visual security				
HoloKote™ watermark - standard design	4 standard designs	4 standard designs	5 standard designs	
HoloKote watermark - custom design			●	
Laminate (custom and stock holographic)				●
UV film				●
HoloPatch™ cards	●	●	●	
Print speed				
Colour (seconds)	35	35	23 (fast mode)	35-40 (depending on settings)
Monochrome (seconds)	7	7	6	
Card thickness				
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
Dimensions				
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
Maintenance				
Cleaning kit	CK1	3633-0053	3633-0053	Prima 491

Magicard dye film and laminate selection guide



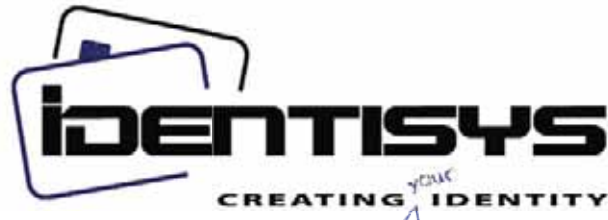
	Print capacity	Product code	Pronto	Enduro	Rio Pro	Prima 4
Colour dye film with overcoat panel (YMCKO)	300	MA300YMCKO	●	●	●	
Colour dye film with overcoat panel (YMCKO)	100	MA100YMCKO	●	●	●	
Double-sided dye film, prints colour on one side, black on reverse (YMCKOK)	250	MA250YMCKOK		●	●	
Black resin dye film with overcoat panel (RO)	600	MA600RO	●	●	●	
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	●	●	●	
Set of YMCK dye film and reverse transfer film	1000	Prima 431				●
Colour dye film with additional black panel (YMCKK) - prints colour on one side and black on reverse	750	Prima 433				●
Colour dye film with UV panel (YMCK-UV)	750	Prima 434				●
Re-transfer film (clear) - pair with colour 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				●

Use 'Original Magicard' dye films for best performance, to extend printer lifetime and to maintain warranty.



Ultra Electronics Card Systems, one of the pioneers of ID card printing, has manufactured card printers since 1993. It provides high quality products with enhanced card security features, and provides the best support and warranty in the business.

Ultra Electronics Card Systems is part of the international aerospace, defence and security group, Ultra Electronics Holdings plc. With 4,000 employees, located mainly across the UK and North America, Ultra Electronics concentrates on obtaining a technology edge in niche markets, with many of its products and technologies being market leaders in their field.



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