



Ultra Electronics Card Systems is one of the pioneers of ID card printing, having manufactured card printers since 1993. We differentiate ourselves by providing a quality product with enhanced card security features, and by providing the best support and warranty in the business.

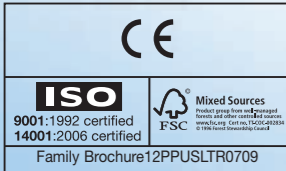
Ultra Electronics Card Systems is part of the international aerospace, defence and security group, Ultra Electronics Holdings plc. With 3,400 employees, located mainly across the UK and North America, Ultra Electronics concentrates on obtaining a technology edge in niche markets, with many of our products and technologies being market leaders in their field.



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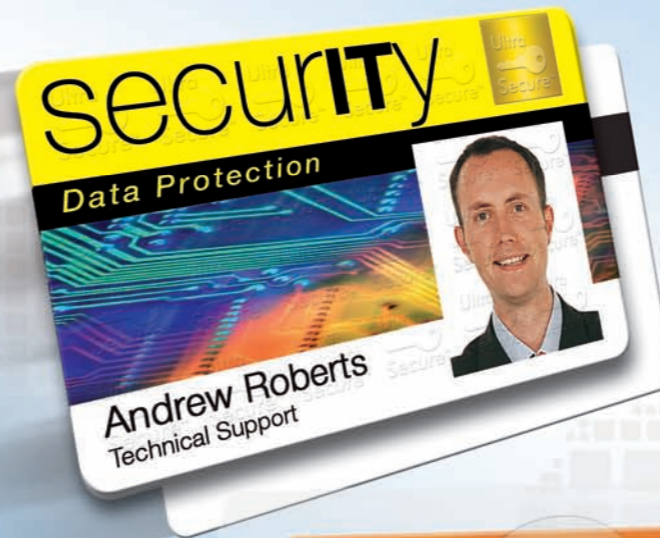


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Magicard Secure ID Card Printers



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MAGICARD
Secure ID card printers



MAGICARD
Secure ID card printers

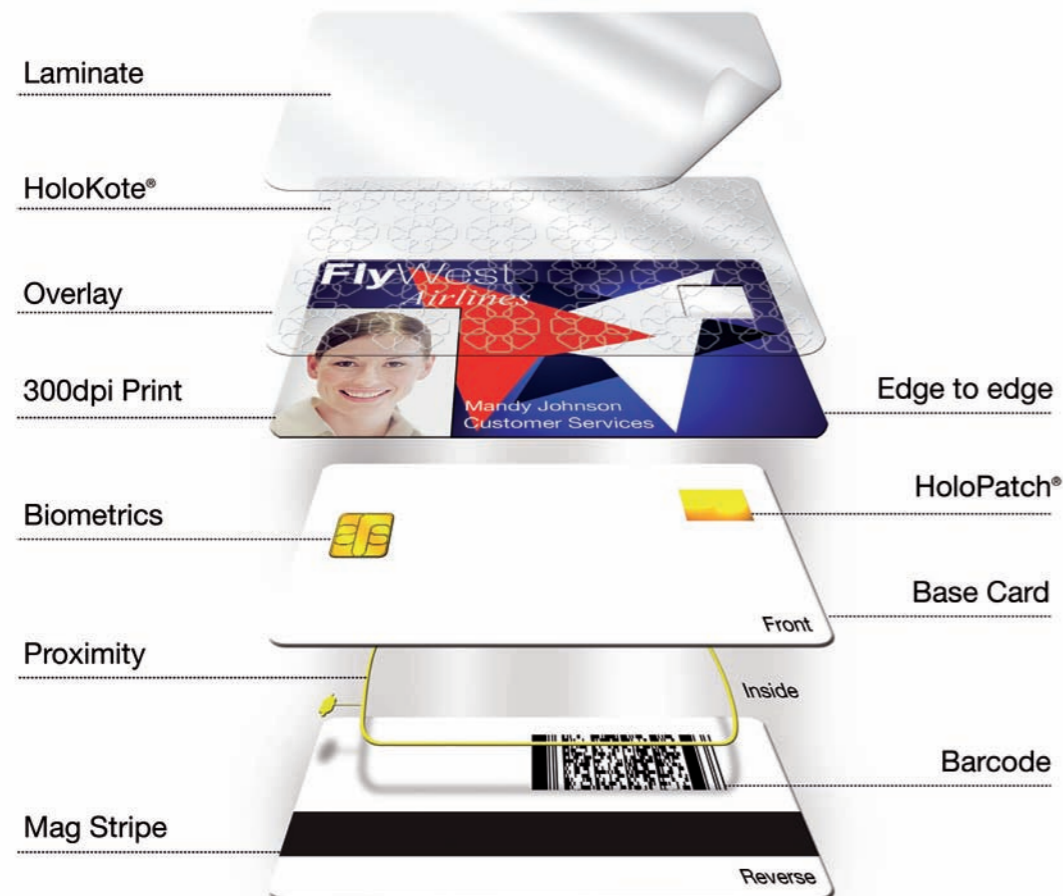
MAGICARD Secure ID Card Printers

Whatever your needs for plastic card printing, our wide range of Magicard color card printers offers you the very best in image quality, security, and innovation for all your card printing solutions.

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 like driving licences.

ID cards are different from many other types of cards we use, such as credit cards, because ID cards are personalized to individual and organizational needs. Personalization means photos on the card, people's names, organization names, but can also extend into signatures, barcodes, and other forms of identification. Many cards these days also have electronic means of identification, such as embedded chips and magnetic stripe.



How HoloKote® is printed onto the card.

Color cards are printed using a thermal transfer YMCKO dye film. After the color image has been printed onto the card, the clear "O" panel is applied to protect the image from fading or scratching. MAGICARD's thermal transfer printer models have a unique facility called HoloKote for frosting a security image into the clear overcoat during the print process. This is a patented feature and unlike most other security logos, it involves no extra cost of printing.

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 watermark pattern. For even greater security, HoloPatch cards combined with HoloKote provide a distance-visible security mark allowing 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.



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

Printer features.



HoloKote®

The Ultra patented built-in HoloKote security watermark comes free with every Pronto, Enduro, Rio 2e, Tango 2e and Tango +L printer.



HoloPatch®

Completely unique to Magicard, HoloPatch cards have a highly reflective gold 'super diffuser' seal. When used in conjunction with the HoloKote anti-counterfeiting feature, the security mark is highlighted for distance visibility.



HoloKote FLEX™

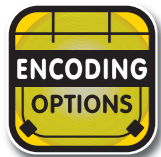
A fully flexible and custom anti-counterfeiting watermark printed across the entire card surface. Custom security for your cards only.



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.

Card encoding.



Card encoding allows electronic data on the card to be written to at the same time as printing a card. Magicard ID card printers support a wide range of card encoding in the printer:

- Magnetic stripe cards. All printers can be specified with ISO standard 7811 compatible HiCo encoding of magnetic stripe cards
- Contact smart card.
- Contactless smart cards (proximity card).

Mag stripe

A dual coercivity HiCo/LoCo mag stripe encoder option which offers encoding of all three tracks with complete user format flexibility.

Contact chip encoding

Optional ISO7816 internal smart card chip encoding contact station can be combined with the Mag stripe Encoder option (Specify /MS).

Contactless encoding

Rio 2e, Tango 2e, Tango +L & Prima 3. Various contactless smart card options available

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



UltraCoverPlus is your three year unlimited warranty package included with our professional range of card printers. Direct technical support, replacement printheads, and even a loan printer are provided FREE in the event a customer's machine requires depot service.

*Available in the EU, North America and other selected countries.

For more information visit www.magicard.com

BADGING SERIES



Pronto



Hand-fed ID Card Printer: Simply the best value color ID card printer.

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.

- PRINTER** •Single-sided hand-fed printer
- SECURITY** •HoloKote card forgery protection
•4 fixed standard HoloKote patterns
•Prints on HoloPatch cards
- ENCODING** •Magstripe (optional)

Pronto Specifications

Printing	
Print Technology	Dye sublimation.
Print Speed	35 seconds color, 7 seconds monochrome.
Card Thickness	20 mil to 40 mil.
Card Capacity	Hand fed - 1 card at a time.
Consumables	
Dye Film	-MA300YMCKO : 300 image YMCKO dye film. -MA600KO : 600 image black resin dye film with overcoat. -MA1000K : 1000 image black resin dye film. (various colors available)
Laminates	N/A.
Cards	-All standard PVC ISO CR80 cards. HiCo mag stripe and HoloPatch available.
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 (Optional).
Smartcard encoder	N/A.
Prox. card (contactless)	N/A.
Printer	
Printer interface	USB rev.1.1 (USB 2.0 compatible).
Drivers/software	Windows 2000™, 2003™, XP™ and Vista™.
Dimensions	Pronto (Part No: 3649-0001), Pronto MAG (Part No: 3649-0002): 8.4" W x 9.1" H x 10.6" D.
Warranty	2 years limited warranty (EU and North America), Elsewhere 12 months limited warranty.

BADGING SERIES



Enduro



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

The Magicard Enduro printer can be ordered single or double-sided. For added flexibility, a simple drop-in upgrade is available for customers whose needs change from single-side cards to double-side cards in the future.

- PRINTER** •Specify single or double-sided as required (Option for double-side upgrade may be ordered later)
- SECURITY** •HoloKote card forgery protection
•4 fixed standard HoloKote patterns
•Prints on HoloPatch cards
- ENCODING** •Magstripe (optional)

Enduro Specifications

Printing	
Print Technology	Dye sublimation.
Print Speed	35 seconds color, 7 seconds monochrome.
Card Thickness	20 mil to 40 mil.
Card Capacity	100 card feeder, 30 card stacker.
Consumables	
Dye Film	-MA300YMCKO : 300 image YMCKO dye film. -MA250YMCKOK : 250 image YMCKOK dye film (Double-sided). -MA600KO : 600 image black resin dye film with overcoat. -MA1000K : 1000 image black resin dye film. (various colors available)
Laminates	N/A.
Cards	-All standard PVC ISO CR80 cards. HiCo mag stripe and HoloPatch available.
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 (Optional).
Smartcard encoder	N/A.
Prox. card (contactless)	N/A.
Printer	
Printer interface	USB rev.1.1 (USB 2.0 compatible).
Drivers/software	Windows 2000™, 2003™, XP™ and Vista™.
Dimensions	Enduro (Part No: 3633-0001), Enduro Duo (Part No: 3633-0021): 8.1" W x 9.2" H x 17.6" D.
Warranty	2 years limited warranty (EU and North America), Elsewhere 12 months limited warranty.



Rio 2e

Single-sided ID Card Printer.

The high security Rio 2e prints top quality images and offers customers an option for fully customizable HoloKote watermark protection. This 3rd generation model is the preferred printer for secure access control single-side cards. **Now with Ethernet**

- PRINTER** • Single-sided secure printer
- SECURITY** • HoloKote card forgery protection
• Custom security logos and text
• Prints on HoloPatch cards
- ENCODING** • Magstripe/Proximity/Contact chip (optional)



Tango 2e

Double-sided ID Card Printer.

High-throughput and high security. The robust double-sided Tango 2e prints top quality images and offers customers an option for fully customizable HoloKote watermark protection. This 3rd generation model is the preferred printer for secure access control double-sided cards. **Now with Ethernet**

- PRINTER** • Double-sided secure printer
- SECURITY** • HoloKote card forgery protection
• Custom security logos and text
• Prints on HoloPatch cards
- ENCODING** • Magstripe/Proximity/Contact chip (optional)



Tango +L

Combined printer and laminator.

The Tango +L is a printer and integrated laminator. Based on the proven Tango print engine, and with a new design laminator, the Tango +L is the best choice for reliable, secure production of both single and double-sided laminated cards. Standard or custom HoloKote or Holograms combined with lamination, provide long life secure cards and extra durability when required.

- PRINTER** • Double-sided secure printer and laminator
- SECURITY** • Standard and Custom HoloKote/holograms
• Prints on HoloPatch cards
- ENCODING** • Magstripe/Proximity/Contact chip (optional)



Prima 3

Reverse-transfer laminating printer.

The Prima 3 uses a printing technology called reverse-transfer. Images are printed onto a thin retransfer film and heat transferred onto the card. The quality of the finished card is comparable to off-set litho printing, but with the advantage that every card can be different.

- PRINTER** • Single-sided or double-sided
- SECURITY** • Standard and Custom holograms
- ENCODING** • Magstripe/Proximity/Contact chip (optional)

Rio 2e Specifications

Printing		PROFESSIONAL SERIES
Print Technology	Dye sublimation.	
Print Speed	Color 22 seconds, 6 seconds monochrome.	
Card Thickness	20mil to 63mil.	
Card Capacity	100 card feed hopper, 50 card output stacker.	
Consumables		
Dye Film	-LC1 : 350 image YMCKO dye film. -LC3 : 1000 image monochrome resin dye film (range of colors). -LC6 : 600 image KO dye film, (black resin and overcoat).	
Laminates	N/A.	
Cards	-All standard PVC ISO CR80 cards. HiCo mag stripe and HoloPatch available.	
Security (Use driver settings to activate HoloKote)		
Security watermark	Standard or custom HoloKote®.	
Gold seal	HoloPatch® cardstock – ordered separately.	
Encoding (Please specify when ordering)		
Magnetic stripe	HiCo and LoCo encoder ISO std. 7811 (Optional).	
Smartcard encoder	Chip contact (Optional).	
Prox. card (contactless)	Various contactless smart card options available: iClass, Desfire, Mifare, Legic	
Printer		
Printer interface	USB rev.1.1 (USB 2.0 compatible).	
Drivers/software	Windows 2000™, 2003™, XP™ and Vista™.	
Dimensions	Rio 2e (Part No. M9006-749), : Rio M 2e (Part No. M9006-751), 14.5" W x 9.1" H x 7.6" D.	
Warranty	3 years UltraCoverPlus warranty (EU, North America and selected other territories). Elsewhere 12 months limited warranty.	

Tango 2e Specifications

Printing		PROFESSIONAL SERIES
Print Technology	Dye sublimation.	
Print Speed	Double-side color/black 30 seconds.	
Card Thickness	20mil to 63mil.	
Card Capacity	100 card feed hopper, 50 card output stacker.	
Consumables		
Dye Film	-LC1 : 350 image YMCKO dye film. -LC3 : 1000 image monochrome resin dye film (range of colors). -LC6 : 600 image KO dye film (black resin and overcoat). -LC8 : 300 image YMCKOK dye film.	
Laminates	N/A.	
Cards	-All standard PVC ISO CR80 cards. HiCo mag stripe and HoloPatch available.	
Security (Use driver settings to activate HoloKote)		
Security watermark	Standard or custom HoloKote®.	
Gold seal	HoloPatch® cardstock – ordered separately.	
Encoding (Please specify when ordering)		
Magnetic stripe	HiCo and LoCo encoder ISO std. 7811 (Optional).	
Smartcard encoder	Chip contact (Optional).	
Prox. card (contactless)	Various contactless smart card options available: iClass, Desfire, Mifare, Legic	
Printer		
Printer interface	USB rev.1.1 (USB 2.0 compatible).	
Drivers/software	Windows 2000™, 2003™, XP™ and Vista™.	
Dimensions	Tango 2e (Part No. M9006-745), Tango M 2e (Part No. M9006-747): 18.5" W x 9.1" H x 7.6" D.	
Warranty	3 years UltraCoverPlus warranty (EU, North America and selected other territories). Elsewhere 12 months limited warranty.	

Tango +L Specifications

Printing		PROFESSIONAL SERIES
Print Technology	Dye sublimation.	
Print Speed	60 - 120 seconds double-sided plus lamination.	
Card Thickness	30mil / 0.76mm	
Card Capacity	100 card feed hopper, 50 card output stacker.	
Consumables		
Dye Film	-LC1 : 350 image YMCKO dye film. -LC3 : 1000 image monochrome resin dye film (range of colors). -LC6 : 600 image KO dye film (black resin and overcoat). -LC8 : 300 image YMCKOK dye film.	
Laminates	Thin overcoat film, 0.6 or 1 mil patch laminates. Clear and holographic.	
Cards	-PVC composite ISO CR80 cards. HiCo mag stripe and HoloPatch available.	
Security (Use driver settings to activate HoloKote)		
Security mark	HoloKote®, Hologram, OVD film - Standard or custom designs.	
Gold seal	HoloPatch® cardstock – ordered separately.	
Encoding (Please specify when ordering)		
Magnetic stripe	HiCo and LoCo encoder ISO std. 7811 (Optional).	
Smartcard encoder	Chip contact (Optional).	
Prox. card (contactless)	Various contactless smart card options available: iClass, Desfire, Mifare, Legic	
Printer		
Printer interface	USB rev.1.1 (USB 2.0 compatible).	
Drivers/software	Windows 2000™, 2003™, XP™ and Vista™.	
Dimensions	Tango +L: (240V : M9007-208E, 115V : M9007-125E) 27.5" W x 10.2" H x 11.8" D	
Warranty	3 years UltraCoverPlus warranty (EU, North America and selected other territories). Elsewhere 12 months limited warranty	

Prima 3 Specifications

Printing		PROFESSIONAL SERIES
Print Technology	Reverse-transfer.	
Print Speed	YMCK between 30 - 40 seconds (depending on printer model).	
Card Thickness	10mil to 80mil.	
Card Capacity	300 cards in feed tray, 100 cards output stacker	
Consumables		
Dye Film	-Prima111/R : 1000 YMCK full-color printing. -Prima112/R : 750 YMCKK full-color one side and black on reverse. -Prima152/R : 750 YMCK-UV full-color and UV	
Retransfer Film	-Prima153/R : 1000 image (must be paired with dye film for printing).	
Laminates	Thin, 0.5 mil and 1 mil laminates available. Clear and holographic.	
Cards	PVC, ABS, PET, PVH, and Polycarbonate ISO Standard CR80 sized cards.	
Security		
Security mark	-UV Hologram watermark in Retransfer film. -Holographic laminates 0.5 mil to 1mil (Laminator unit option only).	
Gold seal	N/A.	
Encoding (Please specify when ordering)		
Magnetic stripe	HiCo encoder ISO std. 7811 (Optional).	
Smartcard encoder	Chip contact (Optional).	
Prox. card (contactless)	Various contactless smart card options available.	
Printer		
Printer interface	USB 2.0 (high speed + ethernet).	
Drivers/software	Windows 2000™, 2003™, XP™ and Vista™.	
Dimensions	Prima 3: (Single-sided : Prima138E, Double-sided : Prima140E) 13.3" W x 15" H x 13.3" D.	
Warranty	3 years UltraCoverPlus warranty (EU, North America and selected other territories). Elsewhere 12 months limited warranty	



Printing	Pronto	Enduro
Print technology	Dye sublimation	Dye sublimation
Feed System	Manual	Manual/automatic
Card capacity: hopper input/stacker output		100/30
Single-sided printer	3649-0001	3633-0001
Double-sided printer		3633-0021
Upgrade (single to double-sided)		3633-0052
Encoding / Variants		
Mag stripe encoding ISO 7811 - tracks 1, 2 & 3	3649-0002 (Pronto MAG)	3633-0002 (Enduro) 3633-0022 (Enduro Duo)
Mag Stripe HiCo/LoCo	HiCo/LoCo	HiCo/LoCo
Contact Chip encoding		
Contactless Mifare/iClass encoding		
Contactless Legic encoding		
Other configurations available on request (HID-Gemplus-Etag-Inside Technologies)		
Batch operation		
Laminator		
Connectivity and Drivers		
USB connection	●	●
Ethernet Connection		
Windows 2000™/2003™/XP™/Vista™	●	●
Warranty		
2 year limited	●	●
3 years UltraCoverPlus : (FREE loaner service)		
Printhead guarantee		
Visual security		
HoloKote watermark - standard design	4 standard designs	4 standard designs
HoloKote watermark - custom design		
Laminate (custom and stock Holographic)		
UV film		
HoloPatch®/Magstripe Cards	●	●
Print Speed		
Color (seconds)	35	35
Monochrome (seconds)	7	7
Card thickness (CR80 cards)		
mil	20 to 40	20 to 40
mm	0.51 to 1.02	0.51 to 1.02
Dimensions		
Width x Height x Depth : inch	8.4 x 9.1 x 10.6	8.1 x 9.2 x 17.8
Width x Height x Depth : mm	215 x 233 x 270	206 x 233 x 453
Weight lb	9.7	12
Weight Kg	4.4	5.5
Maintainance		
Cleaning Kit	CK1	3633-0053

BADGING SERIES



Rio 2e	Tango 2e	Tango +L	Prima 3
Dye sublimation	Dye sublimation	Dye sublimation	Reverse-transfer
Automatic	Automatic	Automatic	Automatic
100/50	100/50	100/50	300/100
M9006-749E			Prima138E
	M9006-745E	M9007-208E (240V) M9007-125E (115V)	Prima140E Prima142E (Plus)
M9006-751E	M9006-747E	M9007-215E (240V) M9007-214E (115V)	Prima139E (single-sided) Prima141E (double-sided) Prima143E (Plus) Prima145E
HiCo/LoCo	HiCo/LoCo	HiCo/LoCo	HiCo/LoCo
●	●	●	●
●	●	●	●
●	●	●	●
			Up to 7 printers to one PC Prima144E (double-sided) Prima145E (double-sided)
		● (Integrated)	● (Module)
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	● (Magstripe only)
22	22	60-120 inc. lamination	30-40 (Varies on model type)
6	6	6	
20 to 63	20 to 63	30	10 to 80/encoder to 55
0.51 to 1.6	0.51 to 1.6	0.76	0.25 to 2.0/encoder to 1.4
7.6 x 9.2 x 14.5	7.6 x 9.2 x 18.6	27.5 x 10 x 12	13.4 x 15 x 13.4
194 x 233 x 370	194 x 233 x 471	700 x 260 x 300	340 x 381 x 340
15.8	18.3	44	48.5
7.2	8.3	20	22
M9005-761	M9005-761	M9005-761	Prima/005

PROFESSIONAL SERIES

Use Geniune Magicard Card Printer dye film for best performance and extended lifespan of your printer.



Magicard dye film and laminate selection guide

Color dye film with overcoat panel (YMCKO)	
Black resin dye film with overcoat panel (KO)	
Double-sided YMCKOK dye film, prints color on one side, black on reverse	
Monochrome resin dye film - Black	
Monochrome resin dye film - White	
Monochrome resin dye film - Silver	
Monochrome resin dye film - Gold	
Monochrome resin dye film - Blue	
Monochrome resin dye film - Red	
Monochrome resin dye film - Green	
Color dye film with overcoat panel (YMCKO) - LC1	
Color dye film with overcoat and black panel (YMCKOK), prints color on one side, black on reverse - LC8	
Black resin dye film with overcoat panel (KO) - LC6	
Monochrome resin dye film (K) - Black	
Monochrome resin dye film - Red - LC3	
Monochrome resin dye film - Blue - LC3	
Monochrome resin dye film - Green - LC3	
Monochrome resin dye film - Gold - LC3	
Monochrome resin dye film - Silver - LC3	
Monochrome resin dye film - White - LC3	
Clear patch laminate film - 0.6mil	
Clear patch laminate film - 1.0mil	
Also available:	
Holographic patch laminate film (Magicard stock design) - 0.6mil or 1mil	
Holographic thin overlay film (Magicard stock design)	
Custom Holographic patch laminate film and overlay films available	
Color dye film (YMCK)	
Color dye film with additional black panel (YMCKK) - prints color on one side and black on reverse	
Color dye film with UV panel (YMCK-UV)	
Re-Transfer film (clear) - Pair with YMCK and YMCKK films	
Also available:	
Patch laminate (clear or holographic) for Prima laminator	
Overlay thin film (holographic) for Prima laminator	

Print Capacity	Product Code	Pronto	Enduro	Rio 2e	Tango 2e	Tango+L	Prima 3
300	MA300YMCKO	●	●				
600	MA600KO	●	●				
250	MA250YMCKOK		●				
1000	MA1000K-Black	●	●				
1000	MA1000K-White	●	●				
1000	MA1000K-Silver	●	●				
1000	MA1000K-Gold	●	●				
1000	MA1000K-Blue	●	●				
1000	MA1000K-Red	●	●				
1000	MA1000K-Green	●	●				
Color dye film with overcoat panel (YMCKO) - LC1							
350	M9005-751			●	●	●	
300	M9005-758				●	●	
600	M9005-756			●	●	●	
1000	M9005-753			●	●	●	
1000	M9005-751-1			●	●	●	
1000	M9005-753-2			●	●	●	
1000	M9005-753-3			●	●	●	
1000	M9005-753-5			●	●	●	
1000	M9005-753-6			●	●	●	
1000	M9005-753-7			●	●	●	
Clear patch laminate film - 0.6mil							
255	M9007-231/R					●	
255	M9007-230/R					●	
Clear patch laminate film - 1.0mil							
Also available:							
255	M9007-248					●	
500	M9007-249					●	
Custom Holographic patch laminate film and overlay films available							
Color dye film (YMCK)							
1000	Prima111/R						●
750	Prima112/R						●
750	Prima152/R						●
1000	Prima153/R						●
Color dye film with additional black panel (YMCKK) - prints color on one side and black on reverse							
Color dye film with UV panel (YMCK-UV)							
Re-Transfer film (clear) - Pair with YMCK and YMCKK films							
Also available:							
Patch laminate (clear or holographic) for Prima laminator							
Overlay thin film (holographic) for Prima laminator							