

## Secure photo-quality printing via an intuitive interface



### Best quality printing

The Magicard Helix uses a retransfer printing process, where images are first printed onto a thin film then heat transferred onto the card surface. This produces a high resolution photo quality image, printed over the edge of the card.

### Intuitive

An intuitive touch screen, with print preview and supplies indicators, provides an easy-to-use interface to an advanced and durable print engine, powered by a high grade processing unit and boasting an impressive array of features.

### Built-in security

Helix is the World's first retransfer printer with built-in visual security, with the ability to apply a secure watermark to each card during the retransfer process. This feature also exploits the wavelengths of the film to fluoresce under UV lighting conditions.

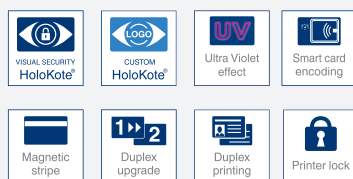
### High capacity

High capacity consumables (1000 prints) and hoppers, combined with a range of encoding options to write secure electronic data to the card, make the Helix ideal for high volume localised or centralised issuance of secure smart cards.

#### Standard features



#### Optional features



#### Free 3 year limited warranty and support

With hassle-free printhead cover and loaner service.

(Available in the EU, North America and other selected territories. Elsewhere a minimum of 1 year limited depot warranty.)



#### Helix is ideal for:

Corporate, payments and government identity applications.





## Printer highlights

 <p><b>Printing speed</b> Up to 125 full colour cards per hour</p>	 <p><b>Card capacities</b> 200 card input 200 card output</p>	 <p><b>Warranty</b> 3 year UltraCoverPlus with hot swap printer and lifetime printhead cover</p>	 <p><b>Visual security</b> Standard or Custom HoloKote<sup>®</sup> watermark with UV effect</p>	<p><b>Windows   OS X</b></p> <p><b>Operating systems</b> Windows and Mac OS compatible</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------

## Printer specifications

<b>Printer technology</b> 300dpi retransfer, 256 colour depth level (8Bit) with automatic card feed system.
<b>HoloKote<sup>®</sup> card security</b> HoloKote built-in security watermark is printed across the entire card surface, this feature also exploits the wavelengths of the film to fluoresce under UV lighting conditions. Available with 10 watermarks as standard, any of these watermarks can be replaced with your own customised design or company logo through an easy-to-use, but securely encrypted, online delivery method. HoloKote printing requires the use of secure dye film (YMCKS).
<b>Encoding security options</b> Magnetic stripe: HiCo and LoCo encoder ISO 7811, JIS2. Smart card encoding: ISO 7816, EMV contact chip, MIFARE <sup>®</sup> , DESFire <sup>®</sup> , iClass <sup>®</sup> and others.
<b>Warranty*</b> 3 years UltraCoverPlus <sup>™</sup> warranty and support with hot swap printer and lifetime printhead cover - Available in North America, EU and other selected territories. Elsewhere a minimum of 1 year limited depot warranty.
<b>Printer interfaces</b> Internal 4 port USB HUB (1.1). (1x WiFi option, 1x encoder option, 1x Micro SD option, 1x unassigned).
<b>Compatibility</b> Windows XP, Vista, 7, 8.1, 10 (32 and 64bit) Windows server 2003 R2 SP2, 2008, 2012, 2016. GNU/Linux and Mac OS X 10.9.0 upwards.
<b>Card capacity</b> 200 card feeder, 200 card stacker.
<b>Weight</b> 14.4kg (31.7 lbs).
<b>Power source</b> External power supply 100-240V 50-60Hz autoranging.
<b>Dimensions</b> 330mm L x 455mm W x 420mm H (13" L x 17.9" W x 16.5" H).
<b>Print speed</b> Colour: up to 125 cards per hour.
<b>Operating environment</b> Sheltered office environment 10°C to 30°C (50°F to 85°F).

## Card security options

 <p><b>HoloKote<sup>®</sup></b> A standard security watermark printed across the entire card surface. The Helix HoloKote features 10 standard designs.</p>	 <p><b>Custom HoloKote<sup>®</sup></b> A fully flexible and customisable secure watermark printed across the entire card surface.</p>	 <p><b>Magnetic stripe</b> The Helix can be specified with ISO standard 7811 or JIS2 compatible HiCo encoding of magnetic stripe cards.</p>	 <p><b>Smart card encoding</b> Smart card encoding options: Contact chip, Mifare<sup>®</sup>, Desfire<sup>®</sup>, iClass<sup>®</sup>.</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## Consumables

	Part No.
<b>Helix HoloKote<sup>®</sup> dye film</b> <ul style="list-style-type: none"> <li>Helix YMCKS Secure HoloKote<sup>®</sup> dye film, 750 images</li> <li>Helix YMCKS Secure HoloKote<sup>®</sup> film set (4 YMCKS and 3 RT films), 3000 images</li> </ul>	HX750YMCKS SET-HX3000S
<b>Helix dye film</b> <ul style="list-style-type: none"> <li>Helix YMCK dye film, 1000 images</li> <li>Helix YMCKK dye film, 750 images</li> <li>Helix 4 x YMCK dye film and 4 x RT film set, 4000 images</li> </ul>	HX1000YMCK HX750YMCKK SET-HX4000
<b>Helix retransfer film</b> <ul style="list-style-type: none"> <li>Helix retransfer film, 1000 images</li> </ul>	HX1000RT
<b>Cleaning kit</b> 10 pads and cards.	E9887
<b>Card types/thickness</b> Card sizes: ISO CR80 85.6mm x 54mm / 3.375" x 2.125" Card types: PVC, PET, PC, PVH, ABS. Card thickness: 0.51mm to 1.3mm / 0.020" to 0.050"	

## Variants

	Part No.
<b>Helix Uno</b> Magicard Helix: single-sided printer.	3663-0001
<b>Helix Duo</b> Magicard Helix Duo: double-sided printer.	3663-0021
<b>Variants (Mag, Smart or Smart Mag) - call for part numbers</b> Magnetic stripe card encoding, combi smart card encoding (contact chip, MIFARE <sup>®</sup> , DESFire <sup>®</sup> , iClass <sup>®</sup> ). Other smart card encoders also available.	

## Options

	Part No.
<b>Double-sided upgrade</b> Upgrade the single-sided Helix to the Helix Duo.	E9907
<b>Laminator</b> Available soon.	-

**ORIGINAL  
MAGICARD**

\*Warranty subject to the observance of specific conditions of use and maintenance, as well as the use of certified 'Original Magicard' dye films.

Magicard and Helix are trademarks or registered trademarks of Magicard Ltd. 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.