

# LCP9660

## Laser engraving and color printing combined for a secure ID issuance system



### Ideal for decentralized issuance of secure citizen IDs, including driver's licenses

The LCP9660 combines high resolution **retransfer printing** with **secure laser engraving** inline for exceptional security and forgery protection. It delivers highly secure, full color, personalized government issued cards from distributed locations, quickly and easily in a single pass.

#### The LCP9660 features two integrated modules:

- The **MC660** high resolution, color retransfer printer.
- The **MC-LX**, Matica's third generation desktop laser module.

It produces a personalized card that features an outstanding 600dpi color image combined with the enhanced security options enabled by laser engraving information into the body of the card.











For the ultimate security and durability of printed/engraved cards, a third module – the **MC-L** laminator – can also be added inline after the laser engraving process to add holographic or durability enhanced over-laminates to the card surface.

### LCP9660 delivers...

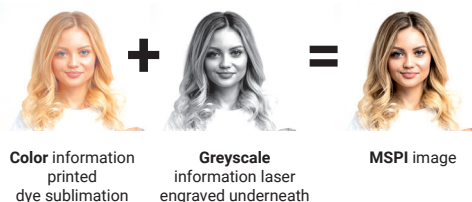
- ▶ Fiber laser up to 20W, MOPA technology
- ▶ 600 x 600dpi dual-sided printing
- ▶ Able to print invisible UV colors and visible colors simultaneously
- ▶ High-definition duplex laser engraving
- ▶ High reliability
- ▶ Up to 120 cards per hour

### Ideal for...

- ▶ Secure government ID issuance programs

Print type	Fiber laser	600 dpi	Print mode	Capacity
 Retransfer dye sublimation	 Up to 20W	 Resolution	 Dual-sided (standard)	 Input/output
Encoding	Custom hologram	MSPI™	CLI / MLI	Inline lamination
 Options	 Retransfer film	 Option	 Option	 Option

### Matica Secure Protected Image - MSPI®



The LCP9660 system enables the use of Matica's proprietary technology, MSPI, in a decentralized issuance environment. MSPI adds an extra security feature when using polycarbonate cards by extracting the black (K) from the color image and adding it as a laser engraved secondary process in perfect register.

# LCP9660 specifications

## Printer

### Print technology

Dye-sublimation retransfer

### Print resolution

600dpi colour printing

### Print area

53.98 x 85.6mm / 3.370" x 2.125"  
(CR-80 cards)

### Print speed

Up to 150 cph

### Print mode

Single or dual-sided

### Printer security

- Support for Kensington® security lock
- Manual lock options

### Certifications

RoHs, CE, FCC, CQC, UL, WEEE,  
Proposition 65 (California, USA)

### Printer warranty

3 years  
(subject to the use of chromXpert® ribbons)

## Laser

### Technology

Fiber laser up to 20W

### Resolution

High-resolution micro laser engraving

### Laser security options

- Visual Security Elements (VSE)
- CLI/MLI visual security options
- MSPI™ (Matica Secure Protected Image) needs Vision option
- Tactile effect
- Vision: offset registration
- Vision: MRZ reading

### Optical reader options (integration)

- 1D/2D barcode
- Digital camera for OCR recognition

### Laser warranty

1 year  
Recommended usage time: 8 hours a day

## System

### Connectivity

Ethernet, USB (1.0, 1.1, 2.0, 3.0)  
Serial RS-232C

### Dimensions (LxWxH)

1036 x 740 x 1097mm / 40.7" x 29.1" x 43.1"  
(including both printer and laser module)

### Weight

- Printer module: 20kg / 44.1lb
- Laser module: 30kg / 66.2lb

## System options

### Magnetic stripe encoding

ISO 7811 HiCo/LoCo (factory fit only)

### Smart card / Contactless encoding

- Contact PC/SC, EMV compliant
- Smart contact station: ISO 7816-2
- ISO14443A, B, ISO15693, MIFARE®, DESFire®, HID iClass®

### Lamination

MC-L lamination module (single/dual-side)

### Custom film

Customized holographic retransfer film

## Card

### Input hopper capacity

250-card output hopper  
(0.76mm – 30 mil thickness)

### Output hopper capacity

250 card feeder  
(0.76mm – 30 mil thickness)

### Card thickness

0.25 mm – 1.0 mm (10 mil – 40 mil)

### Card types

ISO CR80, PC, PET, PET-F, PET-G, ABS

## Software

- XPS printer driver: Windows® (32/64bit) 7, 8.1, 10, 11, Server 2012, 2016, 2019, 2022.
- EDI Secure
- Laser layout software

## Consumables chromXpert

- To ensure print quality and card durability, printhead lifespan and overall printer reliability, use chromXpert ribbons only.
- Supply cores and cassettes are recyclable. Packaging is recycled.

ChromXpert™ ribbon program	Part No.
YMCK 500 prints Diamond	PR000616
YMCKK 410 prints Diamond	PR000617
YMCKUV 410 prints Diamond	PR000612
YMCKSc 410 prints Diamond	PR000613
RT Film 500 prints Diamond	PR000619
YMCK 500 prints Platinum	PR20607219
YMCKK 410 prints Platinum	PR20619117
RT Film 500 prints Platinum	PR20607116
Holographic RT film	PR20620221
Secure A design	
500 prints Platinum	



LCP9660 with lamination option

### ChromXpert™ laminates

Available on request



## Global offices

**Europe:** Switzerland HQ, Italy, UK and Germany

**Asia:** Malaysia, China and India

**USA:** Minneapolis HQ, South Carolina and San Francisco

**Middle East:** Dubai



Authorized reseller / System integrator

Data subject to change without notice.  
All trademarks stated are the property of their respective owners.

LCP9660 Datasheet A4 UK V1