



# Quantum II

## Card printer specification

### STANDARD PRINTER FEATURES

#### Printer design:

- Central mechanical locking system
- Interchangeable 500-card input & output hoppers
- Available in aluminium body, black plastic covers

#### Print technology:

- Direct-to-card
- Dye-sublimation/resin thermal transfer

#### Print capability:

- One- or two-sided printing, edge-to-edge

#### Print resolution:

- 16 million colors
- 300x300 dpi (dots per inch)

#### Printing performance:

- Color YMCKO: up to 150 cards/hour<sup>1</sup> single-sided
- Color YMCKO-K: up to 115 cards/hour<sup>1</sup> dual-sided
- Monochrome: up to 1000 cards/hour<sup>1</sup> single-sided
- Monochrome: up to 320 cards/hour<sup>1</sup> dual-sided

#### Printer memory:

- 16 MB (RAM) allowing two card storages

#### Interfaces:

- USB (1.0, 1.1, 2.0, 3.0)
- Ethernet TCP-IP, 10BaseT, 100BaseT (Traffic Led)

#### Safety:

- Centralized locking system

#### Display:

- 2-line LCD display
- Status LED for printer and encoding unit monitoring
- User interface languages available: English, French, Spanish, German, Italian, Portuguese

#### Warranty:

- 1-year warranty on printer (limited to 500,000 insertions)<sup>4</sup>
- 1-year warranty on original print head (limited to 500,000 insertions)<sup>4</sup>

### OPTIONAL PRINTER FEATURES

- Locking system to prevent access to the printer and consumables (cards and ribbons)
- Quantum Production Pack: 1 detachable card hopper with short door, 2 cleaning rollers, 1 cleaning kit
- Quantum Backup Pack: 1 print head, 1 reversible encoding module, 1 detachable card hopper with short door
- Detachable hopper (long or short doors) with a capacity of 500 card (0,76mm - 30mil)
- Warranty extension program

### ENCODING OPTIONS

- Reversible upper and lower encoding unit for magnetic stripes and contact smart cards (patented)
- Magnetic stripe encoder ISO 7811, track 1, 2 and 3 high and low coercivity, stripe down (0,76mm - 30mil cards only)
- Magnetic stripe encoder JIS Type II
- ISO 7813 smart card contact station for 3rd party external contact encoder
- Connecting panel and mounting area for users own integration of encoding units
- Contact smart encoder - PC/SC, EMV 2000-1
- Contactless ISO 14443A, B, ISO 15693, MIFARE, DESfire, HID iCLASS
- Other specific encoders upon request
- Options can be combined
- Factory-installed and/or installed on site (depending on printer and encoder)

### SOFTWARE

Delivered with cardPresso XXS for designing and editing badges:

- Internal database (unlimited records)
- Signature acquisition (compatible with Evolis Sig100 Lite, Sig100, Sig200 and SigActiv signature pads)
- User interfaces available in 28 languages
- Compatible with Windows® 10, 8, 7, Vista (32/64-bit), Windows Server 2008, Windows Server 2012, Windows Server 2016, Windows Server 2019 and Mac OS (64-bit Processor only) from 10.7 onwards.

Delivered with a driver compatible with Windows® 10, 8, 7, Vista, XP SP3 (32/64-bit), Mac OS (10.11 and lower) and Linux (upon request).

Detailed OS driver compatibility available on [www.evolis.com](http://www.evolis.com)

SDK available for remote supervision of the printer, while facilitating and speeding up integration into IT systems.

### PRINTER RIBBON SPECIFICATIONS

The Quantum is designed to work only with Evolis High Trust® ribbons

To maximize the quality and durability of printed cards, the lifespan of the print head and the overall printer reliability, use Evolis High Trust® ribbons

- Ribbon saver for monochrome printing
- Recycled packaging

#### Ribbon capacity:

- YMCKO: 500 prints/roll
- YMCKO-K: 500 prints/roll (dual-sided)
- 1/2 YMCKO: 400 prints/roll
- KO: 500 prints/roll
- Black monochrome ribbon: 3000 prints/roll
- BlackFLEXmonochrome ribbon: 1000 prints/roll
- Blue P300C monochrome ribbon: 1000 prints/roll
- Red P186C monochrome ribbon: 1000 prints/roll
- Green P356C monochrome ribbon: 1000 prints/roll
- White monochrome ribbon: 1000 prints/roll
- Metallic silver monochrome ribbon: 1000 prints/roll
- Metallic gold monochrome ribbon: 1000 prints/roll
- Signature panel monochrome ribbon: 1000 prints/roll
- Scratch-off monochrome ribbon: 1000 prints/roll
- Hologram varnish ribbon: 350 prints/roll

Y=Yellow, M=Magenta, C=Cyan, K=Black Resin  
O=Overlay, S=Silver

### CARD SPECIFICATIONS

- Detachable and interchangeable card input feeder and output stacker with 500 cards capacity (0,76mm - 30mil)
- Reject hopper for defective cards with a capacity of 20 cards (0,76mm - 30mil)
- Card thickness: 0,76 to 1mm (30 to 40mil)
- Gauge adjustment

#### Card types accepted:

- ISO 7810 format, Type ID 1, CR-80 size
- 85,6 x 53,98 mm (3.370" x 2.125")
- PVC, Composite PVC, PET
- ABS<sup>1</sup>, special varnished cards<sup>1</sup>

### PRINTER SPECIFICATIONS

#### Physical dimensions (H x W x D):

- Without hoppers: 215 x 300 x 850 mm (8.46" x 11.81" x 33.46")
- With hoppers: 567 x 300 x 850 mm (22.32" x 11.81" x 33.46")

#### Weight:

- 21,7 kg (47.8 lbs)

#### Electronic requirements:

- Power supply: 100-240 Volts AC, 50-60 Hz, 2 A
- Printer: 24 Volts DC, 6,25 A

### OPERATING ENVIRONMENT

- Min / Max operating temperature: 15° / 30° C (59° / 86° F)
- Humidity: 20% to 65% non-condensing
- Min / Max storage temperature: -5° / +70° C (23° / 158° F)
- Storage humidity: 20% to 70% non-condensing
- Operating ventilation: free air

### CERTIFICATIONS / COMPLIANCES

- CE, CCC, VCCI, FCC, ICES, BIS, EAC
- RoHS

### INCLUDED WITH THE PRINTER

- CD with drivers and user's manuals
- DVD with cardPresso XXS card designer software
- Quick Start Guide
- Warranty booklet
- Starter cleaning kit
- USB cable (1.80m)
- Power supply
- Power cord (region specific)

<sup>1</sup> Under specific conditions / <sup>2</sup> Depends on the Windows® version

<sup>4</sup> Warranty subject to observance of specific conditions and use of Evolis High Trust® ribbons