



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/hour¹ single-sided
- Color YMCKO-K: up to 115 cards/hour¹ dual-sided
- Monochrome: up to 1000 cards/hour¹ single-sided
- Monochrome: up to 320 cards/hour¹ 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)³
- 1-year warranty on original print head (limited to 500,000 insertions)³

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 7816 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

ID-ALL Starter Edition for designing and editing badges (Windows® and macOS):

- First steps with a card designer, basic design and printing
 - Internal database up to 50 records and 1 image type column
 - CR80 card format
 - Code 39 and 128 barcodes
 - User interface available in 30 languages: English, French, Spanish, German, Italian, Portuguese (Brazil), Dutch, Simplified Chinese, Traditional Chinese, Korean, Japanese, Russian, Polish, Turkish, Arabic, Persian, Burmese, Czech, Danish, Finnish, Hebrew, Hungarian, Indonesian, Nepali, Norwegian, Slovak, Swedish, Thai, Ukrainian, Vietnamese.
- OS compatibility details available on www.cardpresso.com

- **Drivers** for Windows®, macOS and Linux.

Evolis SDK (Software Development Kit) for complete management and optimal integration of Evolis printers in IT applications and systems.

OS compatibility details available on www.evolis.com

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: up to 3000 prints/roll¹
- BlackFLEX monochrome ribbon: up to 1000 prints/roll¹
- Blue P300C monochrome ribbon: up to 1000 prints/roll¹
- Red P186C monochrome ribbon: up to 1000 prints/roll¹
- Green P356C monochrome ribbon: up to 1000 prints/roll¹
- White monochrome ribbon: up to 1000 prints/roll¹
- Metallic silver monochrome ribbon: up to 1000 prints/roll¹
- Metallic gold monochrome ribbon: up to 1000 prints/roll¹
- Signature panel monochrome ribbon: 1000 prints/roll¹
- Scratch-off monochrome ribbon: 1000 prints/roll¹
- Hologram varnish ribbon: 350 prints/roll

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

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 (monochrome BLACK only)

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 cards (0.76mm - 30mil)
- Warranty extension program

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
- 1 license for ID-ALL Starter edition
- Quick Start Guide
- Warranty booklet
- Starter cleaning kit
- USB cable (1.80m)
- Power supply
- Power cord (region specific)

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

³ Warranty subject to observance of specific conditions and use of Evolis High Trust® ribbons