CARD PRINTER SPECIFICATIONS

QUANTUM

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[1] single-sided
- Color YMCKO-K: up to 115 cards/hour[1] dual-sided
- Monochrome: up to 1000 cards/hour[1] single-sided
- Monochrome: up to 320 cards/hour[1] 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)[4]
- 1-year warranty on original print head (limited to 500,000 insertions)[4]

OPTIONAL PRINTER FEATURES
- Locking system to prevent acces 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
- Smart card contact station ISO 7816-2 for 3rd party external 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 or installed on-site

SOFTWARE
Delivered with driver for Windows® XP SP3 32/64, Vista 32/64, W7 32/64, W8 32/64, W10
- User interface languages available: English, French, Spanish, German

Delivered with cardPresso XXS for designing and editing badges:
- Internal database (unlimited records)
- Signature acquisition (compatible with Evolis Sig100 and Sig200 signature pads)
- Compatible with Windows® XP SP3 32/64, Vista W7 32/64, W8 32/64 and Mac OS X (Intel® processor)

Delivered with a driver for Mac OS X (from 10.5 onwards)
Linux OS, upon request
SDK 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[1], special varnished cards[1]

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 temparature: -5° / +70° C (23° / 158° F)
- Storage humidity: 20% to 70% non-condensing
- Operating ventilation: free air

SOUND (evaluated according to the ISO 7779
Sound pressure in assistant positions LpAm (color mode YMCKO):
- When operating: 50 dB (A)
- In sleep mode: background noise level

CERTIFICATIONS / COMPLIANCES
- CE, FCC, VCCI
- 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)

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[1] Under specific conditions / [2] Depends on the Windows® version / [3] Requires the.net 4.0 client profile version

[4] Warranty subject to observance of specific conditions and use of Evolis High Trust® ribbons