



IAI ELEMENT

Card Personalisation System

ELEMENT combines the functional modules of Inkjet, Laser Engraving & Chip Encoding. For this more sophisticated level of integration, IAI provides an enhanced level of system control, an Operator Workstation running IAI software & host interface that has integrated functionality to support the job handling, combined inkjet & laser engraving processing, chip encoding, vision alignment and verification.

	GENERAL FEATURES
Speed	Up to 60 cards per hour depending on configuration
Chip encoding technology	Smartware contact & contactless
Communication interface	Ethernet LAN / USB 2.0
Warranty	12 months, excluding wear parts and ink heads
Operating environment	Temperature: 15°C to 32°C, Humidity: 20% to 80% non-condensing
Dimensions (laser engraver + inkjet module)	533mm x 1525mm x 615mm (HxWxD) – 86 kg
Dual-sided personalisation	Standard
Supported software drivers	Windows® 10
Certifications	CLASS 1 LASER PRODUCT, CE

	LASER ENGRAVER FEATURES
Laser type	20W air cooled fibre laser
Card material types	Polycarbonate (PC)
Laser personalisation types	Sub-surface and tactile laser engraving, microtext
Laser graphics capability	True grayscale
Registration to background print	Camera registration system (optional)
MLI or CLI	Optional
Laser resolution	600 DPI
Power input	100-240 VAC, 9.0 A MAX, 50 Hz - 60 Hz

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	INKJET MODULE FEATURES
Colours	CMY, Varnish
Printing type	DOD UV cured Inkjet
Colour technology	Secure Colour Inkjet (SCI) created with laser engraving black and CMY inkjet colours
	SYSTEM SECURITY STANDARDS
Lockable card input hopper	Yes
Lockable card output stacker	Yes
Lockable laser housing	Yes
Lockable inkjet housing	Yes
	CARD HANDLING
Card size	ISO 7810 ID-1 / ICAO 9303 TD1
Card input capacity (1 hopper)	Up to 400 cards
Card output stacker capacity (1 hopper)	Up to 400 cards
	IAI PC WORKSTATION
Job handling	Yes
Operator interfacing	Yes
Chip encoding interfacing	Yes
Host interfacing	Yes
Visual verification	Yes
	OPTIONS
Contact encoding	Yes
Contactless encoding	Yes
MLI or CLI	Yes
Inkjet module	Yes

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