MARKLAND

i-Ark

M07

Biometric Data Acquisition Station

i-Ark M07 is a professional mobile biometric data acquisition workstation. Weighing less than 23kg with a compact suitcase design, it ensures effortless mobility for field operations. The enclosure is tri-proof (waterproof, shockproof, dustproof), and its integrated design reduces transportation costs and ricks.

The i-Ark M07 is a fully functional workstation, not merely a storage case. Deployable within 1 minute, enabling smooth transitions between mobile and operational modes. This all-in-one solution acquires, stores, and transmits citizens biometric data, operating reliably in remote areas without internet or power. Pre-integrated devices eliminate additional configurations, enhancing efficiency. The swappable battery extends runtime.

Primary Applications: Elections, national ID registration/verification, card issuance, population census, refugee registration, KYC, etc.

Configuration Components

- **Fingerprint Scanner:** IB four-finger scanner supporting flat (ten-finger/single finger) and rolled (single-finger) capture. (FBI certified).
- **QR Code Scanner:** High precision lens for fast and accurate reading of QR codes, 1D barcodes, PDF417,etc.
- **Printer:** Standard A4 thermal printer (300DPI).
- **Signature Pad:** Passive wireless electromagnetic induction technology replicates natural pen-on-paper writing experience.
- **Document Scanner:** Professional scanner for long-page documents and environment-resistant processing.
- **Camera:** Dedicated portrait camera with integrated flash and fill light.
- **Iris Scanner:** CMITECH BMT-20 binoculars-type iris biometric imager.

Parameter		Details
Laptop	Model (Optional)	ThinkPad S2
	CPU Model	R5-7530U
	Screen Size	13.3 inches
	Resolution	1920X1080
	Storage	512GB SSD
	RAM	16GB
4-4-2 Fingerprint Scanner	Brand	IB
	Model	KJ210DA-E00
	Liveness Detection	Supported
	Sensor	TFT
	Resolution	500DPI (FBI and MOSIP certification certified)
	Supported Formats	JPEG2000, BMP, PNG, WSQ (FBI-certified)
Thermal Printer	Paper Width	A4
	Print Density	300DPI
DSLR Camera	Brand	Canon
	Model	R100
	Resolution	24 Megapixel
	Focus Modes	AF（Auto Focus），MF（Manual Focus）
Document Scanner	Type	A4 duplex color high-speed sheet-fed embedded scanner
	Resolution	600 x 600 DPI
	Light Source	LED
	Color Depth	Input 48-bit (color)/16-bit (grayscale); Output 24-bit/8-bit
	Scan Area	Max 216x594 mm; Min 88x54 mm
	Output Format	JPG, BMP, multi-page TIFF/PDF
	Scan Speed	2 seconds per page (duplex, color mode, 300DPI, A4)
QR Code Scanner	1D Barcodes	EAN-13, EAN-8, UPC-A/E, ISSN, ISBN, Codabar, Interleaved 2of 5, Code 128/93, ITF-6/14, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, Code 11, GS1 Databar (RSS-Expand, RSS-Limited, RSS-14), MSI-Plessey, Code39 , Plessey
	2D Barcodes	PDF417, Data Matrix, QR Code, Hanxin Code, Aztec Code, etc.
Signature Pad	Screen Size	5 inches
	Display	TFT LCD
	Aspect Ratio	16:9
	Active Area	108x64.8 mm
	Resolution	800x480
	Brightness	300 cd/m2
	Response Time	15 ms
	Viewing Angle	140°（H)/120°（V), CR≥10
Power Supply	Capacity	32,000 mAh (swappable)
Iris Scanner	Capture Distance	18.4 - 20 pixels/mm
	Image Size per iris	640x480
	Standard	ISO/IEC 19794-6
	Light Source	Infrared
	Eye Safety	IEC 62471, IEC 60825-1
	Certifications	STQC, MOSIP