

Fm220 Fingerprint USB (PC) Based Reader



- ❖ **STQC Certified Single Finger Print Scanner**
- ❖ **UIDAI Approved authentication device for Aadhaar**
- ❖ **Compact and elegant.**
- ❖ **USB 2.0 Interface (High Speed)**
- ❖ **Fast scanning & matching speed**
- ❖ **Choice to set different security levels for different FRR/FAR demand**
- ❖ **Non-distorted image quality**
- ❖ **Small template size, ISO approved.**
- ❖ **Real-life applications-no problem in verifying smeared, scarred, stained and smudged fingers.**
- ❖ **Support verification on various server platforms**
- ❖ **PIV capabilities ported to a verification scanner - absolutely low FTE**
- ❖ **Outstanding placement to image/template/1:N identification performance**
- ❖ **Ergonomic design to guide finger position for effective scanning**
- ❖ **Adjustable image magnification option for children**
- ❖ **High resolution > 600 dpi (optional)**
- ❖ **Successfully deployed in very harsh conditions in remotest corners and dusty and tribal locations.**
- ❖ **The reader is totally shock proof, for accidental falls from table.(under 4 feet free fall)**
- ❖ **Suitably protected against dust and water ingress.**
- ❖ **Live Scan capability with ultra red below skin scanning. (Optional)**

Sensors	CMOS sensors
Scanning Speed	1/15 Second
Image Resolution	500 dpi (H), 500 dpi (V), 600 dpi optional)
Image Capture Area	15.44x17.475 (in mm) (HxV)
Platen Area	16.5x19 (in mm) (HxV)
Scanner Output Image Size	304 * 344 pixel (HxV)
Gray Level	8 bit/pixel, max 256 gray scales
Image Ratio of Length to Width	1:1
Scanner Interface Cable	Standard USB compliant cable
Power Supply	1 Watt. Approx. (From USB port) (200 mA, Approx, Standby:60mA)
Minimum Hardware requirement	P3800 Mhz CPU or UP, 256MB, USB 2.0
Dimension	80mm(L) x 41mm(M)x40mm(H)
Weight	100g (approx)
Distortion	<1% Meeting PIV specifications
Temperature, ESD	-50~45OC, 10 KV
MTBF	>100000 operation hours
Modulation Transfer Function	0.4 at 10 cycle/mm
Scanning Light source	Ultra Red(940nm) capable of support more than 600 dpi
Live Scan Capability	Live Skin Sensing (With ultra red scanning beneath skin, Optional)
API (ISO19794-2/ISO19794-4 and FIPS 201* Compliant, Minex Certified)	Image Capture, Enrollment / Template Generating Matching
Minutia Size	<1K bytes
Matching Speed	Less than 1 second
False Rejection Rate (FRR)	1/100-1/30
False Acceptance Rate (FAR)	1/100,000-1/1000,000
Allowable Fingerprint Rotation	+ 30°
Allowable Fingerprint Displacement	+ 5mm
Software Platform	Windows 2000/2003/XP/Vista/7 (32 bits and 64 bit). Linux with kernel 2.6 (x86); WinCE5.0 (x86 and Arm9), Android



ISO 9001:2008
ISO 14001:2004
ISO 27001:2013

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