

FM220U CMOS USB Fingerprint Scanner



Overview

FM220U is a CMOS-based optical scanner with high-quality. It can capture images and verify fingerprints with high speed USB connectivity. FM220U is also used in enrollment and attendance verification applications.

Features

- ⌚ ISO compliant
- ⌚ Low image distortion – Startek's FM220U is less than 1%.
- ⌚ Fast scanning & matching speed
- ⌚ Choice to set different security levels for different application FRR/FAR demand



- ① Non-distorted image quality
- ① Small template size
- ① Real-life applications - no problem in verifying smeared, scarred, stained
and smudged fingers
- ① Support verification on various server platforms

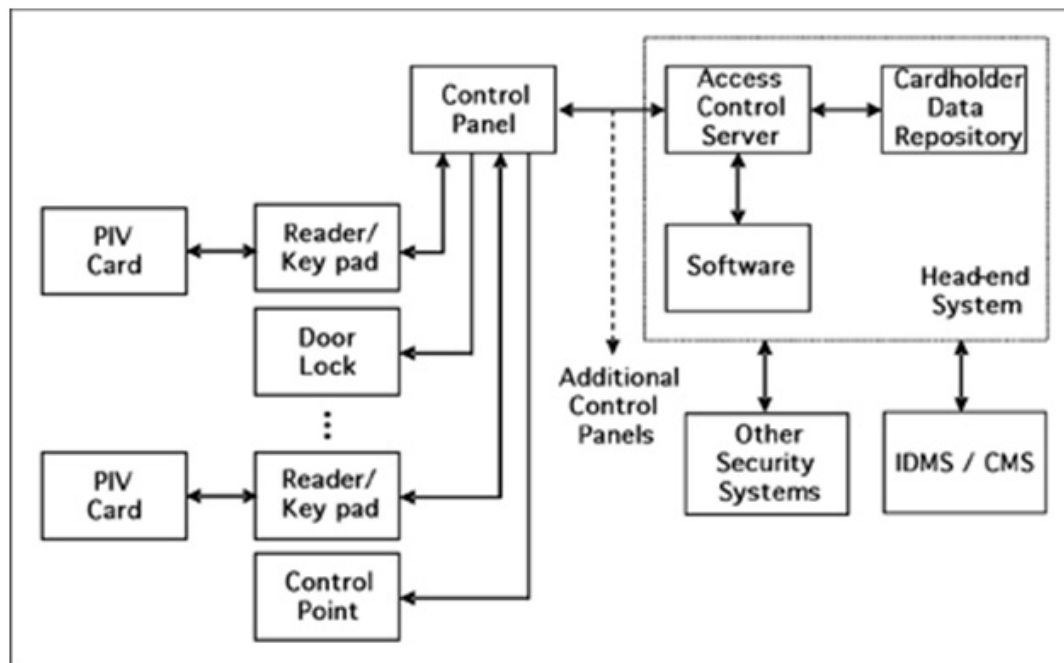
Applications

- ① Verification for Welfare Distribution (financial empowerment for below
poverty level or rural poor)
- ① Retail or Banking POS
- ① Workforce/School attendance and welfare management
- ① Internet Service Provider (ISP) Logon and Logical access control
- ① Foreign labor management
- ① E-shopping/procurement/clinic
- ① E-banking
- ① E-workflow/ERP (Enterprise Resource Planning)
- ① Voting Verification
- ① Club member verification

Product specifications

Sensors	CMOS sensor
Scanning speed	1/15 second
Image resolution	500 dpi (H) ,500 dpi (V) (600dpi optional)
Image capture format	13.3 x 16.4 (in mm) (H * V)
Scanner output Image size	264 * 324 pixels (H * V)
Gray Level	8bits/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) (Peak200mA, approx, standby:60mA)
Minimum hardware requirement	P3 800MHz CPU with min 256 MB, with USB 2.0
Dimension	80mm (L) x 41mm (M) x 40mm (H)
Weight	100g (Approx,)
Distortion	< 1%
Temperature (without external enclosure)	0°C~50°C
Humidity:	< 90% non condensing
Scanning light source	infrared red (940nm)
Operating volts:	+ 5V Tolerance 5% (USB connector)
ESD	15KV

Case study



- | | |
|------------------------|---------------------|
| ⌚ Photograph | ⌚ Digital signature |
| ⌚ Cryptographic keys | ⌚ Smart card |
| ⌚ Biometric data | ⌚ RFID card |
| ⌚ Electrical signature | |