

Optical Fingerprint Scanner

Model : MFS200 | OEM Sensor Module : MOPvO200

MANTRA



Applications

- Banking
- Corporates
- Public distribution system
- Payment
- Institution
- Merchant Payment
- E-Governance

Features



Scratch free sensor surface



Latent Finger Detection



Lower FAR and FRR



USB 2.0 interface with plug and play



500 DPI Optical fingerprint sensor



Support Windows, Android, Linux



FBI PIV Certified Image Quality



IP65 water and dust Protected Device



Minex Certified High Performing Fingerprint Algorithm

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The Mantra MFS200 optical fingerprint scanner boasts the highest standards in image quality, reliability, and compatibility, being FBI PIV certified. Fully compliant with ANSI 378 and ISO 19794-2 standards, this scanner also supports the WSQ image format. It is ideally suited for a range of applications, such as financial services, E-Governance, public security, and PC security. Additionally, its Latent Finger Detection capabilities ensure accurate and secure fingerprint recognition.



At a Glance

Sensor

Parameters	Specification
Fingerprint Sensor Type	: Scratch Free Optical Sensor
Pixel Resolution	: 500 DPI +/- 2%
Sensing Area	: 15.24mm x 20.32mm (0.6 x 0.8 Inch)
Image Size	: 300 x 400 Pixels
Image Grayscale	: 256 (8 - Bit Gray Level)
FRR & FAR	: < 0.1% & < 0.001%
Maximum Acquisition time	: < 2 Sec (Placement to Template)
Capture mode	: Auto Finger detection functionality & Auto capture with built-in quality check (Incorporates NIST quality considerations)
Illumination Source	: RED LED

Electrical

Parameters	Specification
Protocol	: USB 2.0
Operating Voltage	: 5V ±5% (USB Powered Device)
Operating Current	: Operating Current: < 100 mA & Standby Current : < 50 mA

Environmental

Parameters	Specification
Operating Temperature	: -10°C to +70°C
Storage Temperature	: -20°C to +85°C
Humidity (Operating / Storage)	: < 90% RH, Non-condensing

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Compliant to Following Standard

Parameters	Specification
Biometric Data Interchange Format	: RAW/WSQ/JPEG/ISO19794-2/4:2005 and 2011, ANSI378 for minutiae Image Template
*EMI / EMC Compliance	: CE & FCC Part 15B class A
*ESD protection	: Contact Discharge: +/- 8kV, Air Discharge: +/- 15kV
*Environmental, Health and Safety	: RoHS
*Safety	: EN / IEC 62368-1, IS 13252 (Part 1)
*Image Quality	: FBI PIV Certification
*IP Rating	: IP65
Device Driver	: WBF Driver
*USB-IF Certification	: Yes

Dimensions

Parameters	Specification
Device Dimensions (L x W x H)	: 68 x 56.5 x 31.5 mm
Device Weight	: 105 grams
Module Dimensions (L x W x H)	: 44.10 x 38 x 28.7 mm
Module Weight	: 35 grams

System Requirements

Parameters	Specification
Operating System	: Windows - x86 & x64, Android - 7 & Above
Standard Software/SDK	: 1: 1 Morfin Authentication 1: N Morfin Search

* Certification under process