

Multi Fingerprint Scanner

MORPHS

MANTRA



Benefits

- IP65 Water and dust protected rugged casing & platen covered by safety cover
- Device can perform indirect or direct sun - light condition (approx 100K Lux)
- Captured image quality certified by FBI's IAFIS Appendix-F & Mobile ID FAP60
- Excellent imaging performance with dusty conditions; and dry or dirty fingers, even when fingerprint surface is stained by ink

Features



Flat Four fingers &
Two thumbs



WHQL Certified Device Driver



Better User Interface by
LED Indicators



FBI Appendix F-Compliance*



USB 2.0, USB-IF compliance



Scratch-Free Surface



Water & Dust Protected
Rugged Casing

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MORPHS is a unique & portable ten-print fingerprint capture device used to capture multi fingerprints. The device is ideal for delivering fast, accurate and reliable fingerprint capture results for biometric verification, identification and enrollment applications including indirect or direct sunlight; dusty conditions; and dry or dirty fingers. Excellent imaging performance even when fingerprint surface is stained by ink. MORPHS is Appendix F and mobile ID FAP 60 certified. The FBI certification ensures that the reader meets stringent image quality conditions and interoperability standards to work with Automated Fingerprint Information System (AFIS) systems. MORPHS is widely used for enrolling citizens by local or central government organizations, UID-Aadhaar, NPR, National ID projects, World Bank and UNESCO schemes. Additionally, an ergonomic design combined with an easy-to-integrate SDK architecture makes MORPHS the perfect choice for system integrators and solution providers.



At a Glance

Sensor

Parameters	Specification
Fingerprint Sensor Type	: Optical Scratch Free Sensor
Pixel Resolution	: 500 DPI +/- 1%
Platen Area	: 3.5 x 3.2 in. (90 x 81 mm)
Capturing Format	: Flat Four fingers & Two thumbs
Active Platen Area	: 3.2 x 3.0 Inch (81.2 x 76.2 mm)
Finger Image Pixels	: 1600 x 1500 Pixels
Pixel Depth	: 8 Bits/Pixel (256 Gray Level)
Capturing Speed	: >= 4 frames/sec
Capture mode	: Auto capture with built-in quality check (incorporates NIST quality considerations)

Hardware

Parameters	Specification
Interface	: USB 2.0, USB-IF Compliance
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Current Consumption	: Operating : < 375 mA (Max) & Stand By : <80 mA
Operating Temperature	(Max): 0 to 50 °C
Operating Humidity	: 10-90% RH, non-condensing
ESD protection	: Contact Discharge: +/- 4kV, Air Discharge: +/- 8kV
LED Indicators	: Power, Status, and fingerprint image quality
Dimension	: 173 x 147 x 121 mm
Weight	: 3.6 lbs (1.6 kg)

* Certification under process

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Certification

Parameters	Specification
Biometric Data Interchange Format	: ISO 19794-2:2011 for minutiae & ISO 19794-4:2011 for Image Template, WSQ3.1, JPEG2000
EMI / EMC Compliance	: CE & FCC Part 15B class A
Environmental, Health and Safety	: RoHS
Safety	: EN/IEC 62368, IS 13252 (Part 1)
Image Quality	: FBI's IAFIS Appendix-F & Mobile ID FAP60
Ingress Protection Rating	: IP65
Device Driver	: WHQL certified

System Requirements

Parameters	Specification
Operating System	: Windows x86 & x64, Android, Linux
Standard Software	: SDK: MIDFinger_Enroll
Software Features	: NIST compliance WSQ compression module NIST compliance NFIQ Quality check Segmentation of flats into single fingerprint images