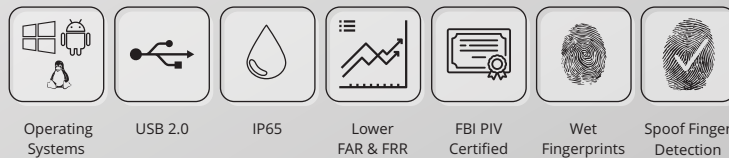


MELO30

Optical Fingerprint Scanner



Operating Systems

USB 2.0

IP65

Lower FAR & FRR


FBI PIV Certified

Wet Fingerprints


Spoof Finger Detection


The Mantra MELO30 is a versatile and field-proven optical fingerprint scanner. It comes with a large platen area (20.32mm x 25.40mm) to capture biometric data with great precision speed and convenience. An array of advanced features like latent detection, spoof detection feature, lower False Acceptance Rate (FAR) False Recognition Rate (FRR) and MINEX-compliant embedded extractor support make it suitable for applications that require optimum security and high accuracy. Backed with a rugged and scratch-free sensor, the MELO30 serves a wide range of industries to ensure seamless identification, verification and authentication.


Main Features

 Scratch Free Optical Sensor


 FBI PIV Certified


 MINEX III certified high performing fingerprint algorithm


 Latent Fingerprint detection

 Spoof finger detection, compliance as per ISO/IEC 30107-3


 Support NIST compliance WSQ/JPEG Image compression standard

 Support ISO/IEC 19794-2:2005/2011 & ANSI INCITS 378-2004 Biometric Data Interchange Format

 Capture high quality image with Dry, Moist or Rough fingerprints

 Support Wet fingerprints Capture

 Lower FRR and FAR

 IP65 rating water and dust protection for outdoor application

Application

- Speedy scanning
- High precision
- Easily integrates with compatible devices
- Durable
- USB 2.0 high speed interface



Technical Specification

Sensor

Fingerprint Sensor Type Scratch Free Optical Sensor	Pixel Resolution 500 DPI +/- 2%	Platen Area 20.32mm x 25.40mm
Image size 400 x 500 Pixels	Image Grayscale 256 (8 - Bit Gray Level)	FRR & FAR Red LED < 0.1% & < 0.001%
Maximum Acquisition time (Placement to Template) < 2 Sec	Latent Finger Detection Yes	Spoof finger detection Supported
Capture mode Auto capture with built-in quality check (incorporates NIST quality considerations)	Light Source RED LED	

Electrical

Operating Voltage 5VDC +/- 5% (USB Powered Device)	Operating Current ~190 mA	Stand by Current ~90 mA
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Environmental

Operating Temperature 0°C to +50°C	Storage Temperature -10°C to +70°C	Humidity (Operating / Storage) < 90% RH, Non-condensing
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Compliant to Following Standard

Biometric Data Interchange Format ISO 19794-2 : 2005 & 2011, ISO 19794-4 : 2005 & 2011, ANSI 378, WSQ3.1, JPEG2000	Safety EN/IEC 62368-1, IS 13252 (Part 1)	EMI / EMC Compliance CE & FCC Part 15B class A
Environmental, Health and Safety RoHS, WEEE	Image Quality Compliance FBI PIV Certification	IP Rating IP65
ESD protection Contact Discharge: +/- 8kV, Air Discharge: +/- 15kV	Spoof Finger Detection ISO/IEC 30107-3	Device Driver WHQL Certified WBF driver
Operating System Windows 10 above, Linux, Android		

Dimensions

Module (L x W x H) 75.0 x 49.0 x 23.0 mm	Module Weight approx 90g
Device (L x W x H) 89.0 x 64.0 x 25.60 mm	Device Weight Approx 150g

Interface

Protocol
USB 2.0

System Requirements

Operating System Windows 10 & 11, Android, Linux	Standard Software/SDK 1:1 Matching: MORFIN_AUTH, 1:N Matching: MORFIN_SEARCH
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