MELO31

Optical Fingerprint Scanner

Mantra Softech is a Global Hi-Tech Manufacturer of Biometric Products and Solutions. We offer a Wide Range of Products in Biometric and RFID Industry.
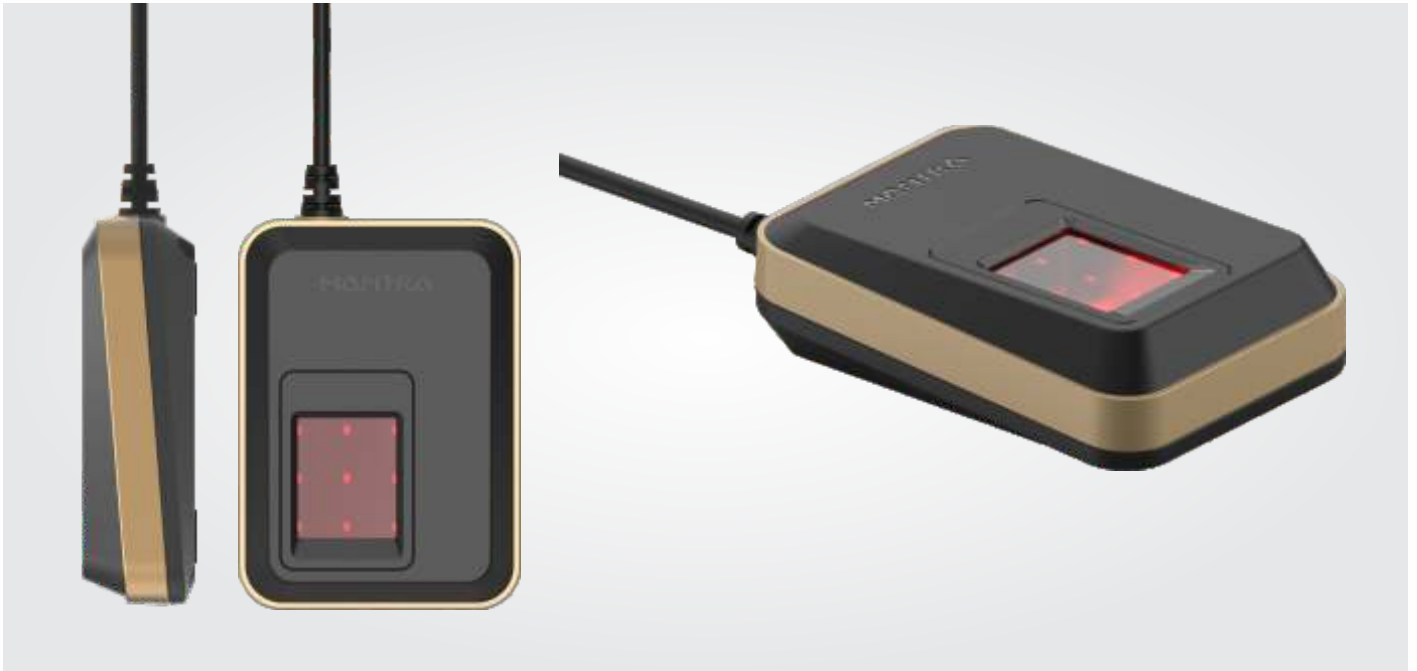
| Operating Systems	USB 2.0	IP65	Lower FAR & FRR	FBI PIV Certified	Wet Fingerprints

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// introduction

FBI PIV certificated, MELO31 is a versatile and field-proven optical FAP30 capture area 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, lower false acceptance rate (FAR), and false recognition rate (FRR) and MINEX compliance embedded extractor support make it suitable for extensive applications that require optimum security and high accuracy. Backed with rugged and scratch-free sensor, MELO31 serves a wide range of industries to ensure seamless identification, verification, and authentication.

// Benefits

- ◆ Speedy scanning
- ◆ High precision
- ◆ Easily integrates with compatible devices

- ◆ Durable
- ◆ USB 2.0 high speed interface

// Features

- Scratch Free Optical Sensor
- FBI PIV Certificated
- MINEX III certified high performing fingerprint algorithm
- Latent Fingerprint detection
- 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, Wet or Rough fingerprints
- Lower FRR and FAR
- IP65 rating water and dust protection for outdoor application

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// At a Glance

Sensor Characteristics	Fingerprint Sensor Type	: Scratch Free Optical Sensor
	Pixel Resolution	: 500 DPI +/- 2%
	Platen size	: 20.32mm x 25.40mm
	Image Size	: 400 x 500
	Image Grayscale	: 256 (8 - Bit Gray Level)
	FRR & FAR	: < 0.1% & < 0.001%
	Maximum Acquisition time (Placement to Template)	: < 2 Sec
	Capture mode	: Auto Finger detection functionality & Auto capture with built-in quality check (incorporates NIST quality considerations) & Support 360 Degree Fingerprint Rotation
	Latent Finger Detection	: Yes
	Light Source	: RED LED
Interface	Protocol	: USB 2.0
Electrical Characteristics	Operating Voltage	: 5V ±5% (USB Powered Device)
	Operating Current	: Operating Current: ~190 mA & Standby Current : ~90 mA
Environmental Characteristics	Operating Temperature	: 0°C to +50°C
	Storage Temperature	: -10°C to +70°C
	Humidity (Operating / Storage)	: < 90% RH, Non-condensing
Compliant to Following Standard	Biometric Data Interchange Format	: ISO 19794-2 : 2005 & 2011, ISO 19794-4 : 2005 & 2011, ANSI 378, WSQ3.1, JPEG2000
	EMI / EMC Compliance	: CE & FCC Part 15B class A
	ESD protection	: Contact Discharge: +/- 8kV, Air Discharge: +/- 15kV
	Environmental, Health and Safety	: RoHS, WEEE
	Safety	: EN/IEC 62368-1, IS 13252 (Part 1)
	Image Quality	: FBI PIV Certification
	IP Rating	: IP65
	Device Driver	: WHQL Certified WBF driver

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// At a Glance

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

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

// Certification

CE | RoHS | FC | IEC | IS 13252(Part 1)

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