

MELO31

Optical Fingerprint Scanner

Integrated with MOSIP*

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

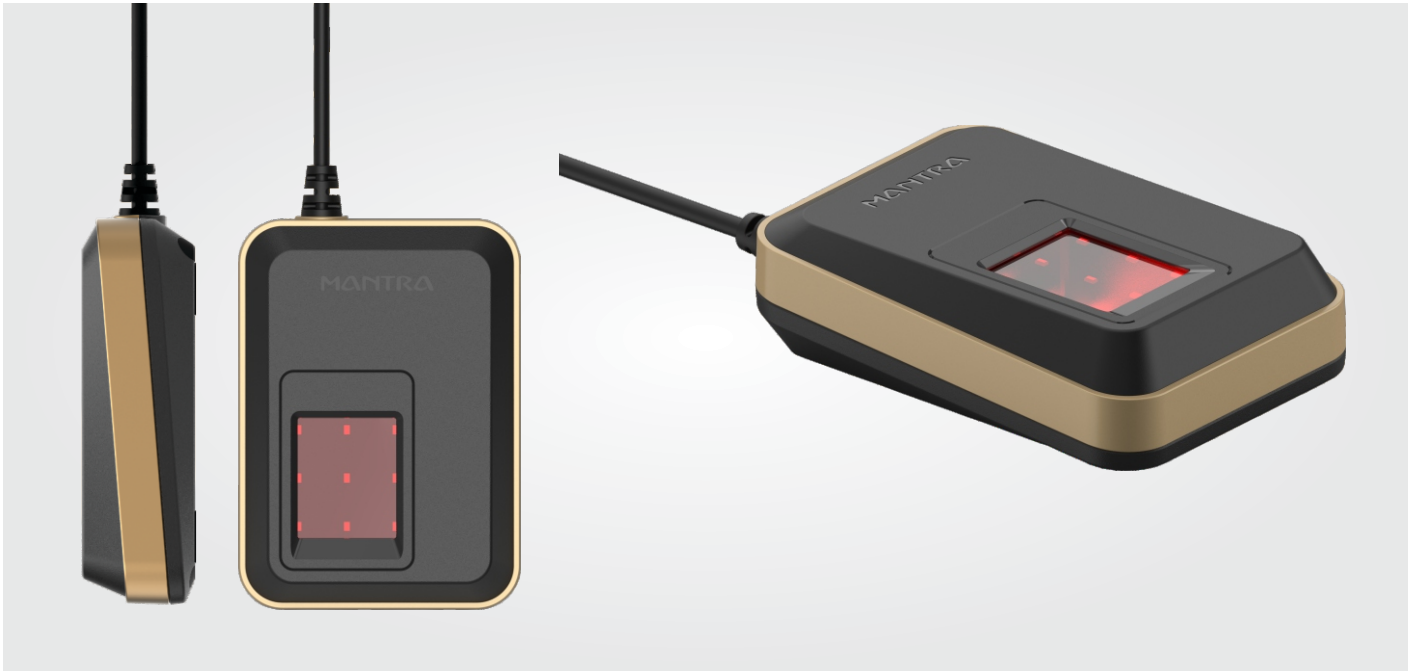


FBI PIV Certified



Wet Fingerprints














// 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 25.40 mm) to capture biometric data with great precision, speed and convenience. An array of advanced features like latent detection, lower false acceptance rate (FAR) & 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 Certified
-  MINEX III certified high performing fingerprint algorithm
-  Latent Fingerprint detection
-  Support NIST compliance WSQ/JPEG Image compression standard
-  Support ISO/IEC 19794-4:2005/2011 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

At a Glance

Sensor Characteristics	Fingerprint Sensor Type	: Scratch Free Optical Sensor
	Pixel Resolution	: 500 DPI +/- 2%
	Platen size	: 20.32 mm x 25.40 mm
	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
Security	Crypto Operation	: Hardware base AES, SHA-256, TRNG support
	Crypto Hardware Module	: RSA-2048 Signing & Verification
	Boot	: Secure boot support by the device using secure crypto Module
	OTA Capability	: Over the Air sign and encrypted firmware update supports.
Interface	Protocol	: USB 2.0 High Speed
Electrical Characteristics	Operating Voltage	: 5VDC ±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 19794-4 : 2005 & 2011, 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 Driver

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	: MOSIP-L1 Compliant SBI Service

*Applied for certification

Certification



Default 1 year RD service subscription & 1 Year Warranty are included, Renewal will be chargeable. For verification of your subscription tenure and Official Renewal visit <https://servico.mantratecapp.com>

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