



# Radium



## Benefits

- Compact device
- Convenient to carry
- Easy-to-handle Simple
- to operate

## Features



Scratch free Sensor  
Surface



High speed USB 2.0 interface  
with secured communication



MINEX Compliance  
Extractor



Auto Finger Detection



Lower FAR and FRR



500 DPI optical  
fingerprint sensor



Supports Windows  
Operating Systems



Supports Android  
Operating Systems



Supports Linux  
Operating Systems

# L1 Fingerprint Scanner

MFS110

MFS110 is an elegant L1 fingerprint device used for identification, verification & authentication processes of an individual. MFS110 offers secured biometrics data, error-free and reliable identification based on unique fingerprint biometric technology. It is fast & easy-to-use. It can be used as an alternative or a complement to those hard-to-remember passwords



## At a Glance

### Sensor Characteristics

Parameters	Specification
Fingerprint Sensor Type	: Optical Sensor
Spatial Resolution	: 500 DPI +/- 2%
Platen Area	: 16.0 mm x 19.0 mm
Sensing Area	: 13.0 mm x 16.5 mm
Image size	: 256 x 328 Pixels
Image Grayscale	: 256 (8 - Bit Gray Level)
Light Source Maximum	: Red LED
Acquisition time (Placement to Template)	: < 2 Sec
Approx. Dimension (L x W x H)	: 61(L) x 91(W) x 54(H) mm
Approx. Weight	: 0.140 kg
Capture mode	: Auto capture with built-in quality check (incorporates NIST quality considerations)

### Security

Parameters	Specification
Crypto operation	: Hardware base RSA2048 Key Generation, AES-GCM-256, SHA-256, TRNG support
Secure Memory	: TEE support by the device. Secure memory support key wrapping feature
Secure Boot	: Secure boot support by the device

### Electrical

Parameters	Specification
Operating Voltage	: 5V +/- 5% (USB Powered Device)
Operating Current	: <90 mA
Stand by Current	: 50 mA
Interface	: USB 2.0

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## Environmental

Parameters	Specification
Operating Temperature	: 0 to 50 °C
Storage Temperature Humidity	: 0 to 50 °C
(Operating / Storage)	: < 90% RH, Non-condensing

## Compliant to Following Standard

Parameters	Specification
Biometric Data Interchange Format	: ISO 19794-2 for minutiae & ISO 19794-4 for Image Template in Encrypted PID Data Block
Environmental, Health and Safety	: RoHS
Safety	: EN/IEC 62368-1, IS 13252 (Part 1)
EMI / EMC Compliance	: CE, FCC Part 15B
Image Quality Compliance	: FBI PIV*, STQC*
IP Rating	: IP54
Device Driver	: WHQL certified
Operating System	: Windows x86 & x64, Linux, Android