

# MANNIX SPECIFICATIONS

## OS Support & System Requirements

### OS Support

- Windows Desktop Editions 10, 11
- Linux Kernel 4.0 or newer (64bit, ARMv8)
  - Ubuntu 18.04LTS or newer
  - Debian 10, 11, or newer
- Android 10, 11, 12 or higher

### CPU

- x64 | 2.0 GHz or higher ARM | 2.0 GHz or higher

### Memory

- 1GB or higher

## Images & Capture

### Sensor Type

- LES ZTX

### Camera

- TFT

### Resolution

- 500 ppi

### Grayscale

- 256 grayscale dynamic range

### Image Size

- 2500 x 2500 pixels

### Supported Image Formats

- RAW, JPEG2000, BMP, PNG, WSQ (FBI-approved)

### FBI / Image Certifications

- Appendix F-Certified and Appendix P-Compliant, FAP 60

### Speed

- Min frame rate for flat capture > 6 fps
- Min frame rate for roll capture > 10 fps

### API Interface

- Capture with one finger or with multiple fingers or palm; Capture of rolled fingerprints; Multi-device / multiprocessor support

### Quality Scoring

- NFIQ v1 supported on all OSes and NFIQ2 for Windows

## Weight & Dimensions

### Product Weight

- 600 grams / 1.3 lbs (not including cable)

### Platen Size

- 127.8 mm x 127.8 mm / 5.0" x 5.0"

### Sensing Area

- 127.0 mm x 127.0 mm / 5.0" x 5.0"

### Scanner Assembly Dimensions

- 161.0 mm x 160.9 mm x 20.3 mm / 6.3" x 6.3" x 0.8"

## Power & Connectors

### Interface

- USB 3.0

### Connector Type

- USB-C Port

### Power Source

- USB Host

### USB Voltage Level

- 4.4v to 5.25v; full scanning < 500mA, typical > 475mA

### Security Functionality

- Kensington Security Slot

## Conformance & Certifications

### USB Certification

- USB-IF compatibility

### FCC/CE/UKCA Conformance

- FCC Part 15 (per ANSI C63.4:2014) Class B, CE Emissions: EN 55032:2015 /A1:2020 Class B, EN, 55035:2017 /A1:2020

### Air Discharge / Contact Discharge

- In compliance with IEC 61000-4-2

### Equipment Safety

- IEC 62368-1

### Hazardous Material

- RoHS Directive 2011/65/EU with amendment 2017/2102

### Vibration Test

- IEC 60068-2-64

### Certifications

- Fingerprint Template Output Formats
  - ISO\_19794\_2\_2005/2011, ISO\_19794\_4\_2005/2011
  - ANSL\_INCITS\_378\_2004/ANSL\_INCITS\_381\_2004
- 500 PPI fingerprint capture supporting rolls and flats
- ISO 9001:2015
- MOSIP Compliant

## Temperature & Humidity

### Operating Temperature

- -10°C ~ +55°C / 14°F ~ 131°F

### Humidity

- 30~85% RH < 40°C / 104°F (Non-condensing)

### Storage Temperature

- -40°C ~ +80°C / -40°F ~ 176°F

## Surface & Systems

### Ingress Protection / Water / Dust

- IP65 Sealed bezel to scanning surface

### Surface Durability

- MIL-C-675c 4.5010, MIL-STD-810F

### Surface Protection

- NBD Nano high-durability, anti-microbial coating

### Cleaning & Sanitization

- For proper cleaning and disinfection of IB products, visit [integratedbiometrics.com/cleaning](https://integratedbiometrics.com/cleaning)

### Mean-Time Between Failures (MTBF)

- Based on 200 enrollments per day:
  - 10-print slaps (4-1-4-1), the Mannix MTBF is 16 years.
  - 10-print slaps + rolls, the Mannix MTBF is 5 years.

