

WATSON SPECIFICATIONS

OS Support & System Requirements

OS Support

- Android 10, 11, 12
- Windows Desktop Editions 7, 8, 10, 11
- Linux Kernel 4.0 or newer (32/64 bit, ARMv6, ARMv7)
 - Ubuntu 18.04, 20.04 or newer
 - Debian 10, 11, or newer

CPU

- x86 and x64 | 2.0GHz or higher ARM | 1.0 GHz or higher

Memory

- 512MB or higher

Images & Capture

Sensor Type

- LES

Camera

- CMOS

Resolution

- 500 ppi

Grayscale

- 256 grayscale dynamic range

Image Size

- 800 x 750 pixels

Supported Image Formats

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

Encryption

- 256-bit AES keys and RSA algorithms

FBI / Image Certifications

- Certification Mobile ID IQS FAP 45, PIV, GSA FIPS201, FBI Appendix F

Speed

- Minimum > 10fps for Galaxy Nexus 1.2 GHz dual-core ARM Cortex-A9 or equivalent; 17 FPS for Intel 2.8 GHz processor or equivalent

API Interface

- Capture single-finger/two-finger direct, single-finger rolls, multi-device / multi-thread support

Quality Scoring

- NFIQ v1 supported on all OSes and NFIQ2 for Windows

Weight & Dimensions

Product Weight

- < 180 grams / 0.40 lbs (not including cable)

Platen Size

- 40.64 mm x 38.1 mm / 1.6" x 1.5"

Sensing Area

- 40.64 mm x 38.1 mm / 1.6" x 1.5"

Scanner Assembly Dimensions

- 60.3 mm x 62.3 mm x 33.04 mm / 2.37" x 2.45" x 1.30"

Power & Connectors

Interface

- USB 2.0

Power Source

- USB Host

USB Voltage Level

- 4.4V to 5.25V

Conformance & Certifications

USB Certification

- USB-IF USB.ORG

FCC / CE Conformance

- FCC Part 15 (per ANSI C62.4:2003) Class A, CSA ICES-003 Class A, CE Emissions: EN55022:2006 Class A, CE Immunity EN 55024:1998/A1:2001/A2:2003, IEC61000-4-2

Air Discharge / Contact Discharge

- In compliance with IEC 61000-4-2

Equipment Safety

- IEC 60950-1

Hazardous Material

- RoHS Directive 2002/95/EC

Vibration Test

- IEC 60068-2-64

Certifications

- Fingerprint Template Output Formats
 - ISO_19794_2_2005/2011, ISO_19794_4_2005/2011
 - ANSI_INCITS_378_2004/ANSI_INCITS_381_2004
- 500 PPI fingerprint capture supporting rolls and flats
- ISO 9001:2015
- iBeta ISO 30107-3 Compliant
- MOSIP L1 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

Cleaning & Sanitization

- For proper cleaning and disinfection of IB products, visit integratedbiometrics.com/cleaning

Mean-Time Between Failures (MTBF)

- Based on 200 full two-finger enrollments per day, the Watson MTBF is 33 years.

