

COLUMBO SPECIFICATIONS

OS Support & System Requirements

OS Support

- Windows Desktop Editions 10, 11
- Linux Kernel 4.0 or newer
 - Ubuntu 18.04LTS or newer
 - Debian 10, 11, or newer
- Android 10, 11, 12 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/dpi

Grayscale

- 256 grayscale dynamic range

Image Size

- 400 x 500 pixels

Supported Image Formats

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

Encryption

- N/A

FBI / Image Certifications

- PIV 071006, FIPS 201, FAP 30 / Certified to Mobile ID Requirements

Speed

- Min frame rate > 10 fps, slaps and rolls

API Interface

- Capture single finger, multi-device/multi-thread support

Quality Scoring

- NFIQ v1 supported on all OSes and NFIQ2 for Windows

Weight & Dimensions

Product Weight

- 25 grams / 0.06 lbs

Platen Size

- 21.5 mm x 26.6 mm / 0.8" x 1.0"

Sensing Area

- 20.3 mm x 25.4 mm / 0.8" x 1.0"

Scanner Assembly Dimensions

- 39 mm x 46.5 mm x 25.7 mm / 1.5" x 1.8" x 1.0"

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 / 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, Low Voltage Directive 2014/35/EU

Electrostatic 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

- Per Mil-STD-810F (Method 514.5), Category 24, Fig.514.5C-17

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 flats
- ISO 9001:2015
- iBeta ISO 30107-3 Compliant
- MOSIP Compliant
- Meets TAA compliance for US customers

Temperature & Humidity

Operating Temperature

- -10°C ~ +55°C / 14°F ~ 131°F

Humidity

- 20~95% 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 single-finger enrollments per day, the Columbo MTBF is 66 years.

