

COLUMBO 2.0/COLUMBO DESKTOP 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

- 400 x 500 pixels

Supported Image Formats

- RAW, 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 > 8fps

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

- < 41 grams (not including cable or bracket) - 2.0
- < 170 grams / 0.40 lbs (not including cable) - Desktop

Platen Size

- 20.32 mm x 25.4 mm / 0.8" x 1.0" - 2.0
- 20.32 mm x 25.4 mm / 0.8" x 1.0" - Desktop

Sensing Area

- 20.32 mm x 25.4 mm / 0.8" x 1.0" - 2.0
- 20.32 mm x 25.4 mm / 0.8" x 1.0" - Desktop

Scanner Assembly Dimensions

- 46.5 mm x 39 mm x 25.7 mm / 1.8" x 1.5" x 1.0" - 2.0
- 77.5 mm x 65.9 mm x 49.6 mm / 3.05" x 2.59" x 1.95" - Desktop

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

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

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 single-finger enrollments per day, the Columbo MTBF is 66 years.

