

COLUMBO CNC

Compact, Durable FBI Certified FAP 30 Single-Print Scanner

- · Automatic Spoof Rejection
- · Software-Based Autodetect







COLUMBO



COLUMBO OEM SCANNERS

Columbo sets the standard for fast, compact, FBI PIV single-print sensors. This FAP 30 scanner delivers exceptional quality and durability along with greater accuracy than FAP 10 or FAP 20 units, yet does so in a thin, lightweight form factor.

Columbo sensors, whether standalone or embedded, require very little power to operate. Their low-maintenance design accurately scans old or damaged fingers and delivers reliable results even under extreme environmental conditions. Built for high-volume environments, Columbo also features a comprehensive software development kit (SDK) to streamline application integration on a wide variety of common platforms including Windows, Android, and Linux.

LES Light Emitting Sensor Technology

Integrated Biometrics' scanners use our patented light-emitting sensor (LES) technology to deliver fixed and mobile FBI certified fingerprint imaging in an exceptionally durable, lightweight scanner.



FEATURES & BENEFITS

Faster

- · Rapid dry finger capture
- No need to clean latent prints in high-volume situations
- Easy integration via single SDK for all Integrated Biometrics FBI-certified products

Better

- Unaffected by extreme temperatures, direct sunlight, or bright artificial lights
- · Compact, lightweight, and rugged
- · Rejects common spoofing attacks
- · Emits no bright lights during scans
- Meets or exceeds US military durability specifications

Smarter

- $\cdot \,$ Competitive pricing
- $\cdot\,$ Extremely low power consumption
- Eliminates consumables (silicone membranes or cleaning tape)
- · Lower maintenance costs

Hardware-based Automatic Spoof Rejection

IB's LES film recognizes real versus manufactured fingerprints. LES-based scanners automatically reject fingerprints based on silicone, glue, rubber, and other common spoofing materials.

Software-Based Autodetect

IB's LES technology automatically detects the finger capture that generates the highest quality image without user intervention. Application developers enable this feature through the IB's software development kit (SDK).



Images & Capture

Sensor Type Light-emitting sensor (LES) CMOS CIS camera

Resolution 500 PPI

Gray Scale 256 grayscale dynamic range

Image Size 400 W x 500 H pixels

Supported Image Formats RAW, JPEG2000, BMP, PNG, WSQ

FBI Certification / Image Certifications PIV 071006, FIPS 201, FAP 30 / Certified to Mobile ID Requirements

Speed Min frame rate > 8 FPS

API Interface Single-finger image, Multi-device / multi-thread support

Weight & Dimensions

Product Weight Less than 70g (without cable)

Platen Size 20.32mm x 25.4mm / 0.8" x 1.0"

Sensing Area 20.32mm x 25.4mm / 0.8" x 1.0"

Scanner Assembly Dimensions OEM 46.5mm x 39mm x 27.5mm / 1.83" x 1.53" x 1.08"

Power & Connectors

Interface Varies with version

Power Source Varies with version

USB Power Requirement / Consumption 4.4 to 5.25v, full scanning <115ma, standby <50 ma

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: EN 55022:2006 Class A; CE Immunity: EN 55024:1998/A1:2001/A2:2003, IEC 61000-4-2

Air Discharge / Contact Discharge In compliance with IEC 61000-4-2

Equipment Safety IEC 60950-1

Hazardous Material RoHS Certified RoHS directive 2002/95/EC

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

Temperatures & Humidity

Operating Temperature -10°C ~ +55°C / 14°F ~ 131°F

Humidity 20~95% RH < 40°C (non-condensing)

Storage Temperature -30°C [~] +80°C / -22°F [~] 176°F

Surfaces & Systems

Ingress Protection / Water / Dust Desktop IP65 sealed bezel to scanning surface OEM IP65

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

Surface Resistance / Allowable Cleaning Chemicals Visit <u>https://integratedbiometrics.com/cleaning/</u>

OS Support Windows Desktop 32/64 bit (7, 8, 10), Windows Server, Linux, Android 4.0+, Java

Warranty

1 year hardware warranty (extended warranty available for purchase)

