

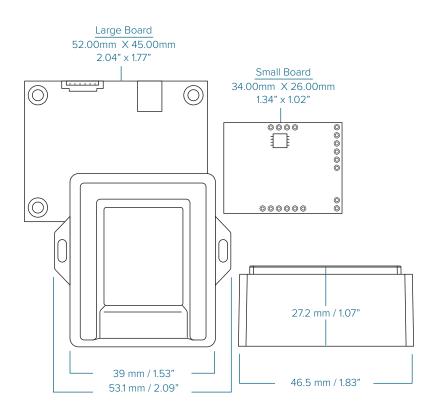
COLUMBO OEM

Compact, Durable FBI Certified PIV 071006 FAP 30 Single-Print Scanner

- · Automatic Spoof Rejection
- · Software-Based Autodetect



COLUMBO OEM



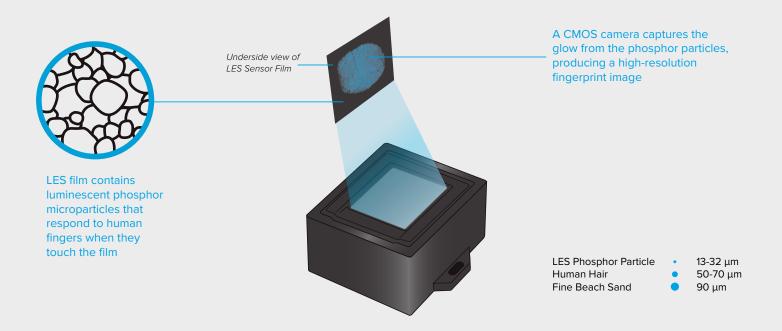
COLUMBO OEM SCANNERS

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 device.



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
- $\cdot\,$ Compact, lightweight, and rugged
- · Rejects common spoofing attacks
- · Emits no bright lights during scans
- Meets or exceeds US military durability specifications

Smarter

- · Competitive pricing
- · 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).



Embedded Columbo Evaluation Cable (not pictured) CLCA1MA-150

58" Molex to Type A

OS Support & System Requirements.....

OS Support

Windows 7 or later (32/64 bit), Linux Kernel 2.6 or later (32-bit, 64-bit, ARMv7-A, and ARMv8-A), Android 4.0 or later (32-bit, 64-bit, ARMv7-A, and ARMv8-A)

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

Grayscale 256 grayscale dynamic range

Image Size 400 x 500 pixels

Supported Image Formats RAW, JPEG2000, BMP, PNG, WSQ (FBI-approved)

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

Speed Minimum frame rate > 8 FPS

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 < 170 grams / 0.40 lbs (not including cable)

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

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

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

Power & Connectors

Interface USB 2.0

Power Source USB Host USB Voltage Level 4.40V to 5.25V

Sleep* < 2.5mA *Feature not available on all models. Ask technical support for further information.

Conformance & Certifications.....

USB Certification USB-IF USB.ORG

FCC/CE Conformance FCC Part15 (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

Temperatures & 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

Surfaces & 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.

Warranty

All products have a 12-month warranty starting from the date of delivery. Additional years warranties available. Inquire with your salesperson.

View the warranty here: integratedbiometrics.com/warranty

