

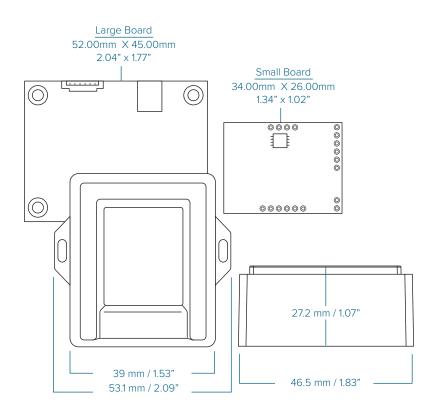
# COLUMBO OEM

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

- · Automatic Spoof Rejection
- · Software-Based Autodetect



# COLUMBO OEM



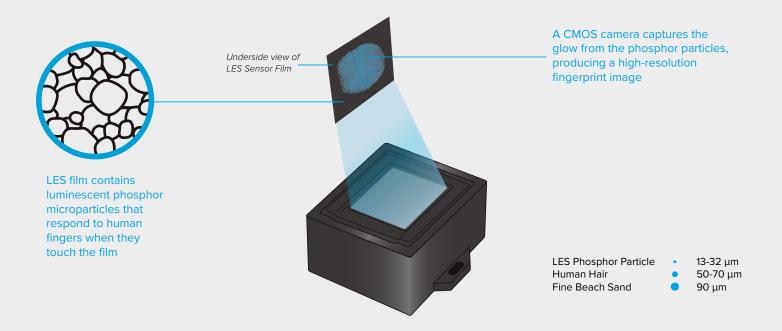
#### **COLUMBO OEM SCANNERS**

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

