

# **KOJ K**

# Rugged, Compact, FBI Certified FAP 60 10-Print Scanner

- · Automatic Spoof Rejection
- · Software-Based Autodetect





## KOJAK

Encrypted communications between scanner and host application



Kojak ends the myth that 4-4-2 FAP 60 fingerprint scanners must be big, heavy, and power hungry. This compact, lightweight unit delivers fast FBI Certified Appendix F performance for 10-print enrollment and verification in a compact form factor that uses less power than any other FAP 60 scanner currently available.

Kojak comes with an intuitive LED-based graphical interface that makes it fast and easy to register accurate scans. A private label version carries custom branding for OEMs and identity management solutions providers.

Available in embedded and standalone versions.

## ES 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**

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



Kojak encrypts communications between the scanner and external devices or applications using 256-bit AES keys and RSA algorithms. This closed-loop

approach protects biometric data at the point of acquisition, across field wiring, and into the host application. By combining onboard security chipsets, private/public key structures, and industry best practices, Kojak ensures that sensitive personal information receives the highest level of scanner encryption currently available.

Kojak also contains protection against tampering through a unique calibration file installed in each serialized unit during production. Attempts to defeat Kojak's security through disassembly or hardware damage alters the device's calibration, rendering that device's imagery unacceptable.

### **Hardware-based Automatic Spoof Rejection**

IB's patented LES film technology cannot be activated using common types of manufactured, fake fingerprints. Leveraging the electrical properties of human skin, LES film does not luminesce in the presence of fingerprints based on silicone, glues, rubbers, and other non-conductive 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).

# IB SCAN ULTIMATE CAPTURE SDK

IBScan Ultimate Capture SDK is provided with every Kojak. The SDK contains comprehensive API functions necessary for 10-Print enrollment tasks. Among the API functions supported are:

- · Automatic capture and calibration of four finger slaps
- $\cdot \ \text{Automatic four-finger segmentation}$
- $\cdot$  Easy Roll print capture with automatic smear detection
- Individual finger NFIQ scoring of segmented slaps and individual rolled images
- · Sequence checking for wrong finger or wrong hand detection
- · Superior capture of damaged or dry fingers without requiring a silicon pad through our "Touch On Film" technology
- · Captured images can be provided to the application in WSQ, RAW, BMP, JPEG2000, and PNG formats

# AVAILABLE VERSIONS

## **Product**

- · Kojak 3.0 Ten Print & Roll Scanner DT
- · Kojak 3.0 Ten Print & Roll Scanner Module
- · Kojak 3.0 Ten Print & Roll Scanner AIC Kit DT
- · Kojak 3.0 Ten Print & Roll Scanner AIC Kit Module

#### Part Number

KJ210DA-E00 KJ2115M-E00 KJAICKT-001 KJ211DA-E00

## Description

USB A 183/72 Molex 8/3 USB A 183/72 USB A 183/72

#### **Power Source** OS Support & System Requirements..... **USB Host USB Voltage Level** Windows 7 or later (32/64 bit), Linux Kernel 2.6 or later (32-bit, 64-bit, 4.50V to 5.25V; full scanning < 320mA, typical < 275mA, standby < 40mA ARMv7-A, and ARMv8-A), Android 4.0 or later (32-bit, 64-bit, ARMv7-A, and ARMv8-A) Sleep\* CPU < 2.5 mAx86 and x64 | 2.0GHz or higher \*Feature not available on all models. Ask technical support for further information. ARM | 1.0 GHz or higher Conformance & Certifications..... Memory 512MB or higher **USB** Certification **USB-IF USB.ORG** Images & Capture..... **FCC/CE Conformance** FCC Part 15 (per ANSI C62.4:2003) Class A; CSA ICES-003 Class A; CE **Sensor Type** LES Emissions: EN 55022:2006 Class A; CE Immunity: EN 55024:1998/ A1:2001/A2:2003, IEC 61000-4-2 Camera **CMOS** Air Discharge / Contact Discharge In compliance with IEC 61000-4-2 Resolution 500 PPI **Equipment Safety** IEC 62368-1 Grayscale 256 grayscale dynamic range **Hazardous Material** RoHS directive 2002/95/EC **Image Size** Vibration Test 1600 x 1500 pixels IEC 60068-2-64 **Supported Image Formats** RAW, JPEG2000, BMP, PNG, WSQ (FBI-approved) Encryption 256-bit AES keys and RSA algorithms **Operating Temperature** -10°C ~ +55°C / 14°F ~ 131°F FBI / Image Certifications FBI Appendix F, PIV, FAP 60 Humidity 10~95% RH < 40°C / 104°F (non-condensing) Minimum frame rate > 8 FPS **Storage Temperature** -30°C ~ +60°C / -22°F ~ 140°F API Interface Capture with one finger or with multiple fingers; Capture of rolled fingerprints; Multi-device / multiprocessor support **Quality Scoring** Ingress Protection / Water / Dust NFIQ v1 supported on all OSes and NFIQ2 for Windows IP65 Sealed bezel to scanning surface **Surface Durability** Weight & Dimensions..... MIL-C-675c 4.5010, MIL-STD-810F **Product Weight** Cleaning & Sanitization 725 grams / 1.6 lbs (not including cable) For proper cleaning and disinfection of IB products, visit integratedbiometrics.com/cleaning **Platen Size** 88.90 mm x 80.01 mm / 3.50" x 3.15" Mean-Time Between Failures (MTBF) Based on 200 full 10-print flats enrollments per day, the Kojak MTBF is Sensing Area 22.2 years. 81.28 mm x 76.30 mm / 3.20" x 3.00" **Scanner Assembly Dimensions** Warranty ..... 114.7 mm x 131.8 mm x 82 mm / 4.52" x 5.19" x .3.23" All products have a 12-month warranty starting from the date of delivery. Additional years warranties available. Inquire with your salesperson. Power & Connectors .....



USB 2.0



View the warranty here: integratedbiometrics.com/warranty