ib

INTEGRATED
BIOMETRICS

KOJAK

PRIVATE LABEL

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

· Automatic Spoof Rejection
· Software-Based Autodetect

256 AES
ENCRYPTION

KOJAK

Full Kojak features and performance with your private label on the bezel

IB's patented Light Emitting Sensor (LES) film produces the highest quality fingerprint images in the certified market

Enhanced SDK:
- Segmentation
- Smear Detection
- NFIQ Quality Scoring

Lowest power consumption of any comparable FAP 60 scanner

Designed for fixed and mobile applications

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.
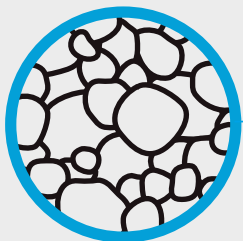
The private label version carries custom branding for OEMs and identity management solutions providers. Available in embedded and standalone versions.
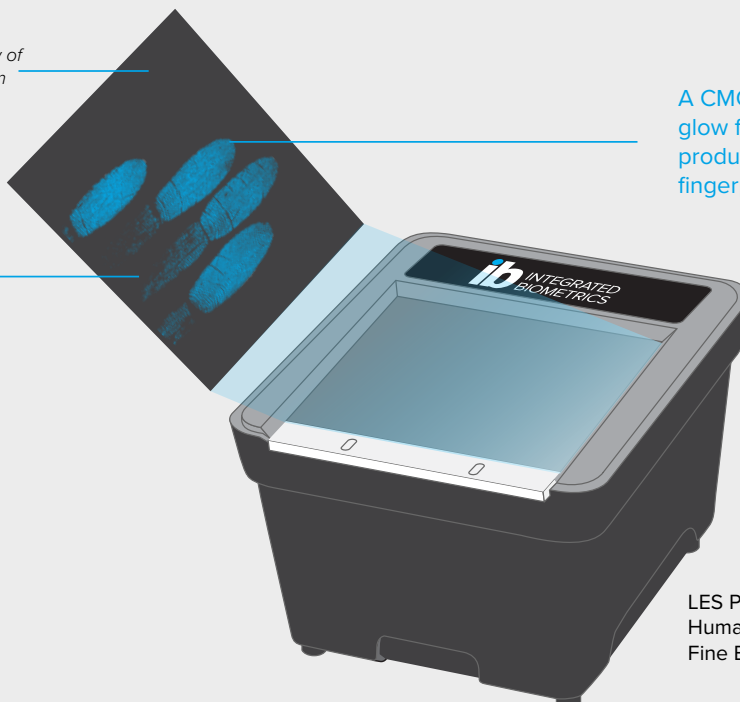
LES Light Emitting Sensor Technology

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.

Underside view of LES Sensor Film

A CMOS camera captures the glow from the phosphor particles, producing a high-resolution fingerprint image

LES film contains luminescent phosphor microparticles that respond only to human fingers when they touch the film

LES Phosphor Particle	•	13-32 µm
Human Hair	●	50-70 µm
Fine Beach Sand	●	90 µm

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:

· Dynamic auto capture of four finger slaps
· Four finger segmentation
· Easy Roll print capture with 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	Part Number	Description
· Kojak 3.0 Private Label 10-Print Scanner - DT	KP210DA-E00	USB A 183/72
· Kojak 3.0 Private Label 10-Print Scanner - Module Short	KP2115M-E00	Molex 8/3
· Kojak 3.0 Private Label 10-Print Scanner - Module Long	KP211GM-E00	Molex 28/11
· Kojak 3.0 Private Label 10-Print Scanner - AIC Kit DT	KPAICKT-001	Attached USB A 183/72
· Kojak 3.0 Private Label 10-Print Scanner - AIC Kit Module	KP211DA-E00	Attached USB A 183/72

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
500 PPI

Grayscale
256 grayscale dynamic range

Image Size
1600 x 1500 pixels

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

Encryption
256-bit AES keys and RSA algorithms

FBI / Image Certifications
FBI Appendix F, PIV, FAP 60

Speed
Minimum frame rate > 8 FPS

API Interface
Capture with one finger or with multiple fingers; Capture of rolled fingerprints; Multi-device / multiprocessor support

Quality Scoring
NFIQ v1 supported on all OSes and NFIQ2 for Windows

Weight & Dimensions. . . . .

Product Weight
725 grams / 1.6 lbs (not including cable)

Platen Size
88.90 mm x 80.01 mm / 3.50" x 3.15"

Sensing Area
81.28 mm x 76.30 mm / 3.20" x 3.00"

Scanner Assembly Dimensions
114.7 mm x 131.8 mm x 82 mm / 4.52" x 5.19" x .3.23"

Power & Connectors . . . .

Interface
USB 2.0

Power Source
USB Host

USB Voltage Level
4.50V to 5.25V; full scanning < 320mA, typical < 275mA, standby < 40mA

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 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 62368-1

Hazardous Material
RoHS directive 2002/95/EC

Vibration Test
IEC 60068-2-64

Temperatures & Humidity . . . .

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

Humidity
10~95% RH < 40°C / 104°F (non-condensing)

Storage Temperature
-30°C ~ +60°C / -22°F ~ 140°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 10-print flats enrollments per day, the Kojak MTBF is 22.2 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

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