

Images & Capture

Sensor Type

Light-emitting sensor (LES) CMOS camera

Resolution

500 PPI

Gray Scale

256 grayscale dynamic range

Image Size

1600 W x 1500 H pixels

Supported Image Formats

RAW, JPEG2000, BMP, PNG, WSQ

Encryption

256-bit AES keys and RSA algorithms

FBI Certification / Image Certifications

FBI Appendix F, PIV, FIPS 201, FAP 60

Speed

Min frame rate > 10 FPS, slaps and rolls

Capture Types

Capture single-finger/four-finger direct, single-finger rolls, multi-device/multi-thread support

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

114.20 mm x 132.08 mm x 83.83 mm / 4.40" x 5.20" x .330"

Power & Connectors

Interface

Minimum USB 2.0 required; interoperable with USB 3.0
Bitrate: maximum 480mbps

Power Source

USB Host

USB Power Requirement / Consumption

4.40V to 5.25V <300mA full scanning,
<2mA sleep mode

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

IEC 60068-2-64

Temperatures & Humidity

Operating Temperature

-10°C ~ +55°C / 14°F ~ 131°F

Humidity

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

Storage Temperature

-30°C ~ +60°C / -22°F ~ 140°F

Surfaces & Systems

Ingress Protection / Water / Dust

Direct water spray, no dust or dirt ingress, IP65 entire enclosure

Surface Durability

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

Surface Resistance / Allowable Cleaning Chemicals

Ammonia, IPA, methanol, soaps, detergents, salt water

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 upon request)





KOJAK

PRIVATE LABEL

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

- Automatic Spoof Rejection
- Software-Based Autodetect



KOJAK PRIVATE LABEL

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

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.

Designed for fixed and mobile applications

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



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



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

| | | |
|-----------------------|---|---------------------|
| LES Phosphor Particle | • | 13-37 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 WSK, RAW, BMP, JPEG2000, and PNG formats

AVAILABLE VERSIONS

Product

- Kojak PL Private Label Ten Print Scanner - Encryption
- Kojak PL Private Label Ten Print Scanner - Encryption
- Kojak PL Private Label Ten Print Scanner - Encryption

Part Number

- KP110CA-000
- KP21000-000
- KP2115M-000

Description

- 58" USB 2.0
- Female USB C
- 3" Molex OEM Module