

# FIVE-D OEM

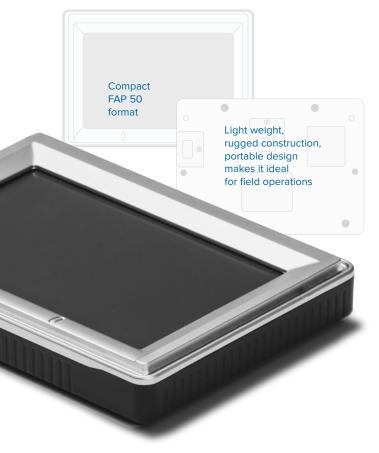
# FBI Certified FAP 50 Mobile 10-Print Scanner

- · Automatic Spoof Rejection
- · Software-Based Autodetect





# FIVE-O OEM



Enables mobile FBI certified Appendix F 10-finger enrollment and verification

Integrated Biometrics' revolutionary FIVE-0 is the first FBI certified fingerprint scanner that delivers fast FAP 50 enrollment and verification in a package small enough to fit in a shirt pocket.

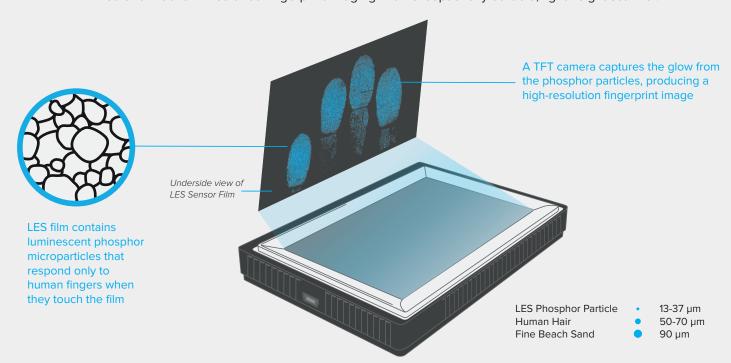
Built for law enforcement, military, border control and national ID programs, FIVE-0 sets the standard for truly mobile identity management operations.

FIVE-0's compact, lightweight design provides exceptional performance and reliability for field operations. It resists latent fingerprints, dirt, cold, heat, bright lights, and direct sunlight. There are no silicone membranes or light sources to replace. Standalone units can operate for hours using power provided by a smartphone or other mobile device.

FIVE-0 is available as an embeddable sensor for OEM multimodal solutions. It ships with a full-featured software development kit (SDK) to simplify the integration of FAP50 images into a wide range of third-party security 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.



# 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

### **S**marter

- · 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 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).

# **AVAILABLE VERSIONS**

Product Part Number Connector Description

· Five-0 OEM FV11000-000 Female USB C Five-0 Embedded Low Profile Ten Print & Roll Scanner

# **Images & Capture**

#### Sensor Type

Light-emitting sensor (LES) TFT camera

#### Resolution

500 PPI

#### **Gray Scale**

256 grayscale dynamic range

#### **Image Size**

1600 W x 1000 H pixels

#### **Supported Image Formats**

RAW, JPEG2000, BMP, PNG, WSQ

#### **FBI Certification / Image Certifications**

FBI Appendix F-certified, Mobile ID IQS FAP50, PIV, GSA FIPS201

#### Speed

Min frame rate slaps > 7.7 FPS Min frame rate rolls >10 FPS

#### **Capture Types**

Four-finger flat, two-finger flat, single-finger flat, single-finger rolled

#### **API Interface**

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

# **Weight & Dimensions**

#### **Product Weight**

191.64 grams / 6.76 oz (not including cable)

#### **Platen Size**

85.85 mm x 53.97 mm / 3.38" x 2,12"

#### Sensing Area

81.28 mm x 50.80 mm / 3.20" x 2.00"

#### **Scanner Assembly Dimensions**

113.8 mm x 83.0 mm x 19.0 mm / 4.48" x 3.27" x .75"

# **Power & Connectors**

#### Interface

**USB 2.0** 

### **Power Source**

**USB** Host

# **USB Power Requirement / Consumption**

4.40V to 5.25V, full scanning TFT <300mA typical <250mA, sleep mode <2mA

#### **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

30~85% RH < 104°F / 40°C (non-condensing)

# Storage Temperature

-40°C ~ +80°C / -40°F ~ 176°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)

