FIVE-O

FBI Certified FAP 50 Mobile 10-Print Scanner

- Automatic Spoof Rejection
- Software-Based Autodetect
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. Each unit can operate for hours using power provided by a smartphone or other mobile device.

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.

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

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**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).

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### AVAILABLE VERSIONS

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<td>FV11000-000</td>
<td>Desktop Low-Profile Ten-Print &amp; Roll Scanner (no cable)</td>
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<tr>
<td>Five-0</td>
<td>FV11000-000</td>
<td>Embedded Low-Profile Ten-Print &amp; Roll Scanner (no cable)</td>
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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;

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)