



FIVE-O OEM

FBI Certified FAP 50 Mobile 10-Print Scanner

- Automatic Spoof Rejection
- Software-Based Autodetect



FIVE-0 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.

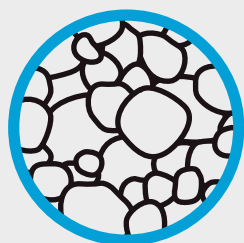
Built for law enforcement, military, border control and national ID programs, FIVE-0 sets the standard for truly mobile identity management operations.

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.

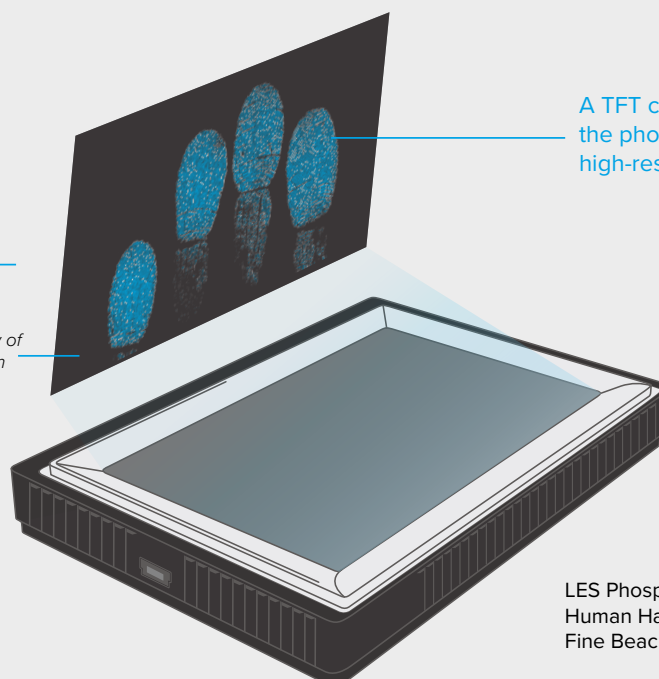
LES Light Emitting Sensor Technology

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.



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

Underside view of LES Sensor Film



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

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

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).

FIVE-0 contains protection against tampering through a unique calibration file installed in each serialized unit during production. Attempts to defeat FIVE-0's security through disassembly or hardware damage alters the device's calibration, rendering that device's imagery unacceptable.

AVAILABLE VERSIONS

Product

- Five-0 OEM

Part Number

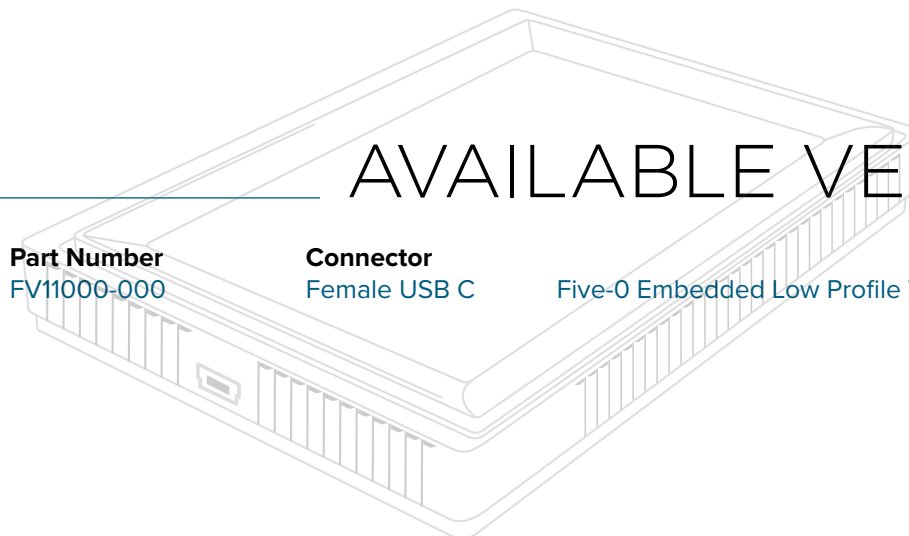
FV11000-000

Connector

Female USB C

Description

Five-0 Embedded Low Profile Ten Print & Roll Scanner



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

TFT

Resolution

500 PPI

Grayscale

256 grayscale dynamic range

Image Size

1600 x 1000 pixels

Supported Image Formats

RAW, JPEG2000, BMP, PNG, WSQ ([FBI-approved](#))

Encryption

N/A

FBI / Image Certifications

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

Speed

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

API Interface

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

Quality Scoring

NFIQ v1 supported on all OSes and NFIQ2 for Windows

Weight & Dimensions.....

Product Weight

< 191.64 grams / 0.4 lbs (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

113.4 mm x 82.9 mm x 17.2 mm / 4.46" x 3.26" x 0.68"

Power & Connectors.....

Interface

USB 2.0

Power Source

USB Host

USB Voltage Level

4.40V to 5.25V

Sleep*

< 2mA

**Feature not available on all models. Ask technical support for further information.*

Conformance & Certifications.....

USB Certification

USB-IF [USB.ORG](#)

FCC/CE Conformance

FCC Part15 (per ANSI C62.4:2003) Class A, CSA ICES-003 Class A, CE Emissions: EN55022:2006 Class A, CE Immunity EN 55024:1998/A1:2001/A2:2003, IEC61000-4-2

Air Discharge / Contact Discharge

In compliance with IEC 61000-4-2

Equipment Safety

IEC 60950-1

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

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

Storage Temperature

-40°C ~ +80°C / -40°F ~ 176°F

Surfaces & Systems.....

Ingress Protection / Water / Dust

IP65 (sealed bezel to scanning surface for IP65 on embedded version)

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 Five-0 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

