



FBI Certified FAP 50 Mobile 10-Print Scanner

- · Automatic Spoof Rejection
- · Software-Based Autodetect



FIVE-0

Runs for hours connected to a smartphone

Compact FAP 50 format

Rugged construction for mobile field operations

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.

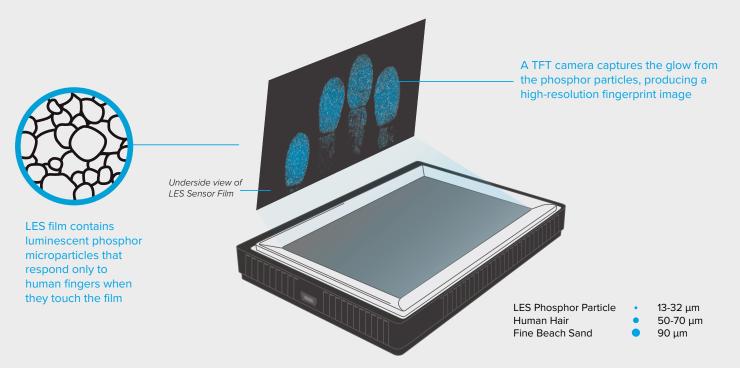
Built for law enforcement, military, border control and national ID programs, FIVE-0 sets the standard for truly mobile identity management operations.

FIVE-O'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.



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
- $\cdot\,$ Compact, lightweight, and rugged
- Rejects common spoofing attacks
- · Emits no bright lights during scans
- Meets or exceeds US military durability specifications

Smarter

- · Competitive pricing
- $\cdot\,$ Extremely low power consumption
- Eliminates consumables (silicone membranes or cleaning tape)
- · Lower maintenance costs

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.

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 Five-0. The SDK contains comprehensive API functions necessary for 10-Print enrollment tasks. Among the API functions supported are:

- · Automatic capture and calibration of four finger slaps
- · Automatic four-finger segmentation
- · Easy Roll print capture with automatic 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



Product

- · Five-0
- · Five-0 OEM

Part Number FV11100-000 FV11000-000

Description

Desktop Low-Profile Ten-Print & Roll Scanner (no cable) Embedded Low-Profile Ten-Print & Roll Scanner (no cable)

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

