

Compact, Lightweight FBI Certified FAP 45 2-Print Scanner

- · Automatic Spoof Rejection
- · Software-Based Autodetect





WATSON MINI

Encrypted communications between scanner and host application



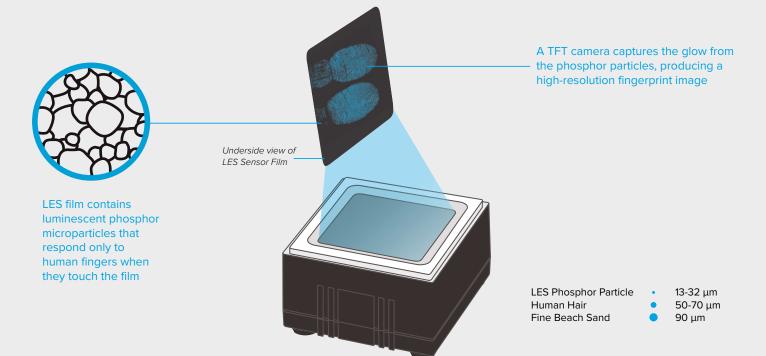
Compact 2-finger scanner for 1-, 2-, and 10-finger enrollment and verification

Watson Mini 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, Watson Mini ensures that sensitive personal information receives the highest level of scanner encryption currently available. For details, see encryption specification on the next page.

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

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
- · Extremely low power consumption
- Eliminates consumables (silicone membranes or cleaning tape)
- · Lower maintenance costs

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.

Two options available for PKCS (Public Key Cryptology standard)

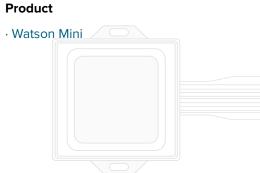
PKCS – Elliptical Curve NIST P-521 or RSA 2048; AES-256, TRNG - NIST SP-800-90 A, B, C; Optional SHA-256, HMAC, MAC

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

Part Number	Description
WM110CA-E00	58" Cable, USB 2.0
WM1109B-E00	24" Cable, Micro USB
WM1109C-E00	24" Cable, USB C
WM1108B-E00	8" Cable, Micro USB
WM1118C-E00	8" Cable, USB C
WM110FA-E00	3 Meter Cable, USB A 2.0
WM1108M-E00	8" No Choke Molex, No Feet
WM110DA-E00	1.8 Meter Cable, USB 2.0
WM1125M-E00	80mm Molex, Wings
WM1128C-E00	8" Cable, USB C, Required for Samsung mobile devices
WM1129C-E00	24" Cable, USB C, Required for Samsung mobile devices
WM1114M-E00	70mm Molex, Pigtail Cable
WM2A03M-E00	80mm Molex cable (FIPS-140-2 Encryption)





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 CMOS

Resolution 500 PPI

Grayscale 256 grayscale dynamic range

Image Size 800 x 750 pixels

Supported Image Formats RAW, JPEG2000, BMP, PNG, WSQ (FBI-approved)

Encryption 256-bit AES keys and RSA algorithms

FBI / Image Certifications Certification Mobile ID IQS FAP45, PIV, GSA FIPS201, FBI Appendix F Certified

Speed Minimum > 10fps for Galaxy Nexus 1.2 GHz dual-core ARM Cortex-A9 or equivalent; 17 FPS for Intel 2.8 GHz processor or equivalent

API Interface Capture single-finger/two-finger direct, single-finger rolls, multi-device / multi-thread support

Quality Scoring NFIQ v1 supported on all OSes and NFIQ2 for Windows

Weight & Dimensions.....

Product Weight < 180 grams / 0.40 lbs (not including cable)

Platen Size 40.64 mm x 38.1 mm / 1.6" x 1.5"

Sensing Area 40.64 mm x 38.1 mm / 1.6" x 1.5"

Scanner Assembly Dimensions 60.3 mm x 62.3 mm x 33.04 mm / 2.37" x 2.45" x 1.30"

Power & Connectors

Interface USB 2.0 Power Source USB Host

USB Voltage Level 4.4V 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

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 two-finger enrollments per day, the Watson Mini MTBF is 33 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

