

**SMUFS MoBio 30h** is a compact, self-powered, IP65 certified, FBI certified, standalone fingerprint scanner, capable of connecting via Bluetooth and USB interfaces. An additional fingerprint template extraction for either ISO or ANSI template formats is available. MoBio-30h incorporates HID's single-finger flat acquisition sensor, which introduces the latest FAP-30 Nomad, TFT capacitive sensor technology and enables the reader to capture superior fingerprint images that meet FBI standards, such as Personal Identification Verification (PIV) in both direct and indirect sunlight.



### Special Features & Benefits

- Wireless Android, iOS, and Windows OS
- Wired USB for Windows
- Prevents screen sharing between officer and subject
- 600 scans on a single charge cycle
- High resilience to outdoor conditions (direct sunlight, rough environment)
- No latent fingerprint residue cleaning needed even in high-volume situations which eliminates consumables (silicone membranes or cleaning tape)
- Easy integration via single SDK
- Unaffected by operational challenges
- Overcomes dry, dirty, inked/stained and elderly fingers issues
- Data security – secure data in rest and data in motion
- Unaffected by extreme temperatures, direct sunlight, or bright artificial lights
- Rejects common spoofing attacks
- Built-in liveliness detection
- Instant pairing (NFC) to any smartphone, tablet/laptop

Images & Capture	FAP 30h
<b>Sensor Type:</b>	Capacitive TFT
<b>Capture Types:</b>	Single-finger flat
<b>Resolution:</b>	500 PPI
<b>Gray Scale:</b>	256 (8 bit) dynamic range
<b>Image Size:</b>	PIV 071006 (FAP 30)
<b>Capturing Area:</b>	20.32mm x 25.4mm (0.8 x 1 inch)
<b>Supported Image Formats:</b>	RAW, JPEG2000, BMP, PNG, WSQ, TIFF
<b>Supported Template Formats:</b>	ISO/IEC 19794-2:2005, ANSI/INCITS 378-2004, SBS Algorithm, <b>NeuroTechnology template:</b> FBI Certifications
	PIV, FAP 30
<b>Conformances:</b>	FCC, RoHS, USB IF, WHQL
<b>Capture &amp; Transfer:</b>	< 1.5 Seconds

### Hardware

**Processor:** Arm Cortex-A5 processor 500 MHz  
**Memory:** RAM - 128MB DDR2 SDRAM  
 ROM - Soldered NOR Flash EMMC PMC 4GB  
 3.5 GB User programmable area  
**Interface:** USB 2.0 (USB Type C, Molex 51146-0600, Molex 51021-0600)  
**Connectivity:** Bluetooth 5.2 BLE, Wi-Fi 802.11 b/g/n/a/ac, NFC  
**Power:** Rechargeable 1800 mAh Li-Ion 3.7V Battery, USB Host

### Weight & Dimensions

**Product Weight:** 110 grams / 3.9 oz  
**Platen Size:** 21 mm x 26 mm / 0.8" x 1"  
**Dimensions:** 115 x 78 x 28 mm / 4.56" x 3.07" x 1.1"

### Surfaces & Systems

**Ingress Protection / Water / Dust:** IP 65 (water/dust protection)  
**Usable Capacity:** ~600 captures on single charge  
**Physical Notification:** 3 LED multicolor, Buzzer

### SDK

**OS Support:** Windows Desktop 32/64 bit (10+), Windows Server, Linux, Android 4.0+, Java, iOS (Wireless), Mac OSX (Wireless)  
**Programming Interface:** C, .NET, Java, C++, Objective C  
**Data Security:** RSA 3000+ bit key, MAC list features, Template Signature (X9.84 standard), Connection password, IO packet encryption

### Additional Features:

Live detection  
 Anti-spoofing  
 SDK capable of providing graphical user guidance  
**Quality Assessment:**  
 NFIQ1, NFIQ2, Custom extractor (optional)

### Temperatures & Humidity

**Operating Temperature:** - 10° to 50°C / 14°F ~ 122°F  
**Humidity:** 10% to 90% non-condensing  
**Storage Temperature:** -20°C ~ +60°C / -4°F ~ 140°F

### Accessory

Tactical carry-on sheath

### Warranty

1-year hardware warranty (extended warranty available upon request)

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