

xperix

# BioMini Combo 2

FAP 20 certified, Single Finger and Smartcard Scanner



BioMini Combo 2 is the FBI FAP 20 and PIV certified two-factor authentication scanner with machine learning-based Live Finger Detection (LFD) technology. This innovative product offers unmatched protection using advanced anti-spoofing techniques to prevent fake fingers from clay, rubber, silicone, glue, paper, film, and more. Furthermore, it provides an additional layer of security with SAM (Secure Access Module) slot. Designed for indoor and outdoor use, the BioMini Combo 2 captures fingerprints under 100,000 Lux direct sunlight and with water and dustproof IP65 protection. Compatible with Windows and Linux operating systems, the BioMini Combo 2 offers versatility and flexibility for various applications.

# BioMini Combo 2

FAP 20 certified, Single Finger and Smartcard Scanner

- » FBI PIV and Mobile ID FAP20 certified fingerprint sensor
- » Two factor authentication (Fingerprint and Smartcard)
- » AI based Live Finger Detection (LFD)
- » AES-256 encryption on SDK
- » Secure Access Module (SAM) slot
- » NIST certified interoperable image & template
- » Image compression standard; WSQ
- » Support Windows, Linux, and Android OS
- » IP65, Water and dust resistant
- » Provide BioMini SDK and sample code

## TECH SPEC

Sensor & Image	Sensor type	Optical
	Resolution	500 ppi
	Grayscale	8-bit, 256 levels
	Image Size (W x L)	300 x 400 pixels
	Template Format	Xperix, ISO19794-2, ANSI 378
	Supported Image Format	RAW, BMP, ISO 19794-4, WSQ (FBI certified)
	Encryption	SDK : AES-256
	FBI / Image Certifications	Mobile ID FAP 20 (PIV-071006), PIV Single Finger (PIV-071006)
	Fingerprint Extractor	MINEX III certified and compliant
Card	Contact Smart Card	ISO 7816 Class A/B/C (5V, 3.0V, 1.8V) T=0 and T=1, EMV2000 contact smart card with SAM Slot (Optional, Max. 1 slot)
Features	Live Finger Detection (LFD)	Supported (by AI-based engine)
	Multi Dynamic Range (MDR)	Supported
System	OS support	Windows 10 or higher 32/64bit Linux Ubuntu, Debian, Fedora, OpenSUSE, CentOS 32/64bit
Certifications		FBI, CE, FCC, KC, RoHS, USB-IF, UL, WHQL
Weight & Dimensions	Weight	280 g
	Platen Size (W x L)	16.5 mm x 21 mm
	Sensing Area (W x L)	15.2 mm x 20.32 mm
	Dimensions (W x L x H)	95.7 mm x 114.8 mm x 52.6 mm
Durability	Surface Protection	Optic Glass (Scratch free)
	Ingress Protection	IP65 (Sealed between bezel and sensor surface)
	Operating Temperature	From -10 °C to 55 °C
	Operating Humidity	0% - 90%, non-condensing
	Storage Temperature	From -20 °C to 70 °C
	Storage Humidity	0% - 90%, non-condensing
Power & Connectors	Interface	USB 2.0 High Speed, CCID, PC/SC driver
	Power Source	USB Host, 5.0V ±10%



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