

Digital ID Solution

BROCHURE | SOLUTION OVERVIEW

REVO2



Xperix Inc.



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Proven leader in biometric digital identity

Xperix's story began in 2009 and is rooted in the biometric identity solutions business under the umbrella of Suprema Inc. Following a strategic spin-off, Suprema ID was established in 2017 and went public on KOSDAQ in 2019. In 2023, Suprema ID had rebranded itself as Xperix Inc. This renaming reflects our shift in ownership and underscores our dedication to enhancing customer experiences and broadening our business scope.

Since 2009, we have been dedicated to creating a safer and better world by integrating cutting-edge technologies and solutions. We aim to continually develop and refine digital identity solutions that transcend geographical and physical boundaries. Together, we aim to build a secure and empowered global community.

Our digital identity solutions are deployed globally, leveraging our proven biometric and OCR (optical character recognition) technology in 133 countries. With our unique technological edge and market influence, we believe Xperix can set the standard for empowering digital identity solutions in B2G and B2B sectors.

Our jouney

Biometric identity solutions business under Suprema Inc. Established **Suprema ID**

Listed on **KOSDAQ** (317770)

<u>2009 2011 2017 2019 201</u>

India National ID Project

Tanzania National ID Project

Brazil, IndonesiaDriver's license
Issuance Project

Mongolia Border Control Project

FranceePassport
Issuance Project

Core values

Trusted Partners

1000+

Countries of Scanner Client

133+

Government Projects

75+

Intellectual Property Rights

40+

Al-driven Algorithm

Artificial Intelligence (AI) engines built into all products and algorithmic technologies help solve problems faster and deliver high performance.

Liveness Detection

Our FBI-certified devices effectively prevent spoofing of fake fingerprints made of film, adhesive, rubber, clay, silicone, etc. In addition, AI technology can easily prevent authentication using a mask made with a 3D printer or a face made with silicon.

Biometrics

By providing facial recognition, fingerprint, and palm print recognition with high convenience and security are applied to various industries.

Document Reading

It provides high-performance ID recognition technology with OCR, QR code, 1D & 2D barcode recognition technology used for eID, ePassport, driver's license, visa issuance, and boarding ticket checks.

Brand Transition

XPERIX

Selected as Global Hidden Champions 1000+ for 4 years in a row Empowering Digital Identity for People

2022 2023

2024

2025

2030

USA

USPS Access Control Project

Ethiopia

eKYC RoadShow

Mozambique

National ID Project

Brazil

Border Control Project

Singapore

Immigration & e-passport Project

Uganda

Naitonal ID Project

Spain

Police Project

India, Rwanda, Chile

Law Enforcement Project

Comprehensive technology application portfolio











Leader by market share

Xperix's products are used globally for automated border control, VISA and ePassport issuance, digital ID issuance, voter registration, SIM card issuance, criminal identification, self-service kiosk, and more.



Products line-up

FBI Appendix F & Mobile ID FAP 60

Tenprint scanners & modules

- RealScan SG10
- RealScan S60
- RealScan-G10
- RealScan S60M (Embedded module)









FBI Appendix P & Appendix F

Palmprint & Tenprint scanners

• RealScan-FC



FBI Appendix F & Mobile ID FAP 45 & PIV-071006

Dual fingerprint scanners

• RealScan D



FBI PIV-071006 & Mobile ID FAP 30

Single fingerprint scanners & modules

- BioMini Slim 3
- BM-Slim3 (Embedded module)





FBI PIV-071006 & Mobile ID FAP 20

Single fingerprint scanners & modules



- BioMini Slim 2S
- BioMini Combo 2
- BM-Slim2 (Embedded module)
- BM-Slim2S (Embedded module)







ICAO Doc 9303 Standard

Document readers



• RealPass-N

RealScan SG10

Ultra-compact FAP 60 Live Scanner

RealScan SG10 is an FBI Appendix F certified, FAP 60, Ultra-compact optical live scanner that has been completely redesigned from a legacy optical live scanner.

With its new interface, USB 3.2 Gen 1 enables superior capture speeds and supports plug-and-play functionality. Xperix's Al-based algorithms and optical technology ensure high-quality fingerprint image acquisition and advanced liveness detection that comply with PAD Level 1 & 2 standards.

With its reliability and durability, RealScan SG10 is a perfect live scanner for mobile enrollment kits, kiosks, and eGate, providing a significant advantage for customers to maximize the benefit from their product and solution.



Key features

Al-based Liveness Detection (Compliant with ISO/IEC 30107-3

PAD Level 1 & 2 Standard)

BixeLab
ISO 30107-3 Compliant

FBI
Appendix F
& Mobile ID
FAP 60
certified

MOSIP Compliant (PC & Android)

MÖSIP COMPLIANT Plug & Play



Ultra-compact size (only **80 mm** height)

The world's lowest optical live scanner



Flat (Four, Two, Single) and Rolled (Single) fingerprints capturing SuperSpeed with USB 3.2 Gen 1, USB-C



Ingress
Protection
IP65

- Portability with ultra-compact design
- Faster data transfer with USB 3.2 Gen 1
- Flexibility in hardware design
- Optimized for easy integration

- Support complex and data-intensive applications
- Kensington lock support
- Simplified development with SDK
- Windows, Linux, and Android support

RealScan S60

World's First FAP 60 Live Scanner has obtained PAD Level 1 & 2 Standards

RealScan S60 is the FBI Appendix F certified, FAP 60, Ultra Slim, and Lightweight fingerprint live scanner. RealScan S60 provides advanced artificial intelligence based live finger detection technology compliant with ISO/IEC 30107-3 PAD Level 1 & 2 Standard. Applying LFD technology, RealScan S60 distinguishes fake fingerprints made from various materials, including clay, rubber, silicon, glue, paper, film, and more.

With Xperix's proprietary fingerprint algorithm and an advanced TFT(Thin Film Transistor)-optical technology, RealScan S60 enables capture of the highest fingerprint image quality flat and rolled fingers with little effect from various fingerprint conditions. Due to the small and thin form factor, it is optimized for desktop solutions and easy integration into portable devices, providing a significant advantage for customers to maximize the benefit from their product and solution.



Key features

Al-based Liveness Detection (Compliant with ISO/IEC 30107-3

PAD Level 1 & 2 Standard)

BixeLab
ISO 30107-3 Compliant

FBI
Appendix F
& Mobile ID
FAP 60
certified

MOSIP Compliant (PC & Android)



TFT-optical Technology



Ultra-slim and compact form factor with a **19.3 mm sensor module**



Flat (Four, Two, Single) and Rolled (Single) fingerprints capturing Advanced **Rolled Image Construction** Technology



Ingress
Protection
IP65

- Four finger 1600 x 1500 pixels
- Only 220g weight
- Simplified development with SDK
- Flexibility in hardware design

- Optimized for desktop solutions and easy integration into portable devices
- Advanced TFT(Thin Film Transistor)-optical technology
- Windows, Linux, and Android support

RealScan-G10

Iconic FAP 60 Live Scanner

RealScan-G10 is the FBI Appendix F certified, FAP 60, and the iconic live scanner for enrollment.

Xperix's advanced optical technology guarantees high-speed image capturing and seamless image processing without being affected by the dry/wet finger or any environment.

With its proven fingerprint algorithm, RealScan–G10 distinguishes fake fingerprints and captures the highest fingerprint image quality flat and rolled fingers.

RealScan–G10 is the perfect live scanner for citizen ID and various applications.



Key features

Al-based Liveness Detection (Compliant with ISO/IEC 30107-3

PAD Level 1 & 2 Standard)



FBI
Appendix F
& Mobile ID
FAP 60
certified

MOSIP Compliant (PC & Android)

MOSIP

Ingress Protection

IP54

Voice Instruction

Flat (Four, Two, Single) and Rolled (Single) fingerprints capturing Advanced **Rolled Image Construction** Technology



- Four finger 1600 x 1500 pixels
- Optimized for easy integration
- Built-in speakers

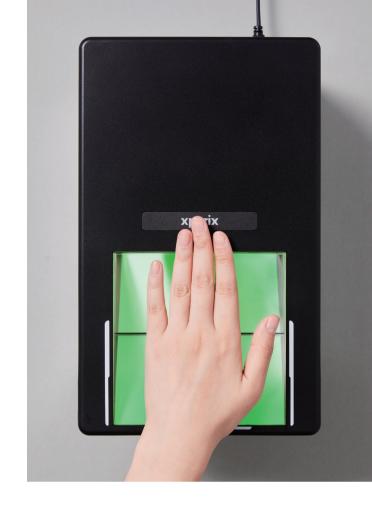
- Kensington lock support
- Simplified development with SDK
- Windows, Linux, and Android support

RealScan-FC

Palmprint & Tenprint Live Scanner

RealScan-FC is an all-in-one palmprint live scanner for capturing various types of fingerprints and palmprints, including slaps, flats, rolls, palms, and writer's palms. Featuring Xperix's cutting-edge optical & biometric technologies, it is capable of capturing the highest quality images regardless of the physical condition of hands.

RealScan-FC supports user-friendly features like voice instruction, foot switches, and a mobile power supply. With the proven reliability of FBI certification, RealScan-FC is a perfect fit for criminal identification.



Key features

FBI Appendix P & Appendix F certified



Palmprints **2500 x 2500** pixels Latent fingerprint image elimination



Al-based Liveness Detection

Capturing various types of fingerprints & palmprints

Flats (Four, Two, Single), Rolls (Single), Slaps, Palms (Full, Upper & Lower) and Writer's palms Advanced **Rolled Image Construction** Technology



Slippage detection for flats and rolls



Ingress Protection IP64

- Four finger 1600 x 1500 pixels
- Tenprint, palmprint, identification flats, supplemental and major case print (Appendix P) live scanner
- Optimized for easy integration

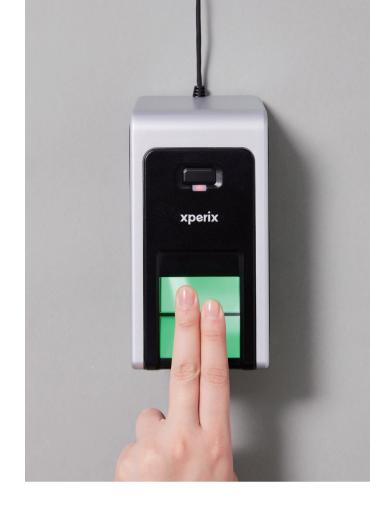
- Built-in speakers
- Voice instruction
- Simplified development with SDK
- Windows, Linux, and Android support

RealScan-D

Portable Dual Finger Live Scanner

RealScan-D is the FBI Appendix F certified, FAP 45, single/dual fingerprint live scanner. Its proven fingerprint algorithm, RealScan-D captures the flat and roll fingerprint at an extremely fast frame rate.

All the leading technology resides in a sleek and ergonomic design and a user-friendly interface that makes it credibly simple to use with minimum training and maintenance.



Key features

FB I Appendix F & Mobile ID FAP 45 & PIV-071006 certified

Flat (Two, Single) and Rolled (Single) fingerprints capturing **Start-up time** minimized to **0.37 s**



Al-based

Liveness Detection

Ingress
Protection
IP53

High-speed capture of flat & rolled fingerprints



Advanced **Rolled Image Construction** Technology



- Single / dual finger 900 x 900 pixels
- Optimized for easy integration

- Simplified development with SDK
- Windows, Linux, and Android support

BioMini Slim 3

Ultra-slim FAP 30 Single Fingerprint Scanner

BioMini Slim 3 is the ultra-slim FAP 30 single fingerprint scanner. Along with its 15 mm slim optical sensor, it features Xperix's proprietary Multi-dynamic Range (MDR) technology, MINEX III compliance, and Android device support. BioMini Slim 3 also provides developers with more physical flexibility with its reduced form factor, and the ultra-slim optical sensor ensures robust operation over time.

With Xperix's proprietary fingerprint algorithm, BioMini Slim 3 distinguishes fake fingerprints made from various materials, including clay, rubber, silicon, glue, paper, film, and more. It reliably operates under direct sunlight and captures high-quality fingerprint images when the finger is dry or wet.



Key features

FBI PIV-071006 & Mobile ID FAP 30 certified



Al-based Liveness **Detection** Plug & Play (HID protocol)



Standalone operation



Capturing high-quality fingerprint images when the finger Is dry / wet

Enhanced security (On-device encryption)



MDR Technology for exceptional images even under direct sunlight (up to 100 000 LUX)



Ultra-slim size at only 20mm height



Ingress Protection **IP65**

- Single finger 400 x 500 pixels
- Optimized for easy integration

- Simplified development with SDK
- Windows, Linux, and Android support

BioMini Slim 2/2S

Ultra-slim FAP 20 Single Fingerprint Scanner

BioMini Slim 2 is the ultra-slim FAP 20 single fingerprint scanner. Along with its 13.5 mm slim optical sensor, it features Xperix's proprietary Multi-dynamic Range (MDR) technology, MINEX III compliance, and Android device support. BioMini Slim 2 also provides developers with more physical flexibility with its reduced form factor, and the ultra-slim optical sensor ensures robust operation over time.

With Xperix's proprietary fingerprint algorithm, BioMini Slim 2 provides advanced artificial intelligence based live finger detection technology compliant with ISO/IEC 30107-3 PAD Level 1 & 2 Standard. Applying LFD technology, BioMini Slim 2 distinguishes fake fingerprints made from various materials, including clay, rubber, silicon, glue, paper, film, and more. It reliably operates under direct sunlight and captures high-quality fingerprint images when the finger is dry or wet.



Key features

FBI PIV-071006 & Mobile ID FAP 20 certified



Al-based Liveness Detection (Compliant with ISO/IEC 30107-3

PAD Level 1 & 2 Standard)



Enhanced security (On-device encryption)



Standalone operation

(BioMini Slim 2S Only)

MDR Technology for exceptional images even under direct sunlight (up to 100 000 LUX)





Ingress Protection

IP65

Plug & Play

Ultra-slim size at only 18mm height



- Single finger 300 x 400 pixels
- Presentation Attack Detection (PAD) Level 1 & 2 Standards

- Optimized for easy integration
- Simplified development with SDK
- Windows, Linux, and Android support

BioMini Combo 2

FAP 20 Single Fingerprint & 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 dust proof IP65 protection. Compatible with Windows and Linux operating systems, the BioMini Combo 2 offers versatility and flexibility for various applications.



Key features

FBI PIV-071006 & Mobile ID FAP 20 certified



Plug & Play

SAM slot (Max 1 slot)



Two-factor authentication scanner with LFD technology

(Embedded BM-Slim2 Module)

Enhanced security (On-device encryption)



MDR Technology for exceptional images even under direct sunlight (up to 100 000 LUX)



Standalone operation



Ingress Protection **IP65**

- Single finger 300 x 400 pixels
- Optimized for easy integration
- Simplified development with SDK

- SAM slot support (Optional, max 1 slot)
- Windows, Linux, and Android support

RealPass-N

Multi-funcational & Full-page Document Reader

RealPass-N is a multi-functional and full-page document reader for one-step reading of multiple document types, including ICAO standard documents such as e-Passport, e-Visa, ID cards, and ID & 2D barcodes.

It is designed to capture or extract data from visual data pages and RFID chips of electronic documents quickly and reliably in a variety of public and commercial sectors.



Key features

ICAO Doc 9303 Standard compliant



ICAO Doc 9303 Compliant

Automatic detection of document placement

Ingress Protection IP54

OCR data capture of the Machine-Readable Zone (MRZ)



Easy integration with

eGates, kiosks, counters and other self-service solutions

One-step reading of visual data page and RFID chip of e-documents

((o))

Reads
ISO 14443
Type A/B
contactless
chip, 1D/2D
Barcodes

- Full size 2560 x 1772 pixels
- Dual RFID support
- Durable tempered glass (Scratch free)
- Optimized for easy integration

- No moving parts, robust, minimal maintenance cost
- Simplified development with SDK
- Windows and Linux support

Build Something Great.

Xperix's SDK development framework allows control of Xperix's products and developers to integrate the core functionality of biometric devices with others seamlessly. With its SDKs, you can make your applications sustainable and clear for various applications such as national ID, border control, voter registration/verification, criminal identification, SIM card registration, banking, and more.

BioMini SDK

Supported Product

- · BioMini Slim 3
- BioMini Slim 2/2S
- BioMini Combo 2
- BM-Slim3
- BM-Slim2/2S

OS & Languages

- Windows C# / C++ / Java
- Linux C++ / Java
- Android Java.

Features

- · Various capture mode
- · Minutiae extract from image
- · Image quality check
- Data encryption & Decryption for image and template Fingerprint matching (1:1, 1:N)
- Internation standard image compressions, formats, and interfaces
- AI-based liveness detection (ISO/IEC 30107-3)

RealScan SDK

Supported Product

- · RealScan SG10
- RealScan S60
- RealScan-G10
- · RealScan-D
- RealScan-FC
- RealScan S60M

OS & Languages

- Windows C# / C++ / Java
- Linux
- C++ / Java
- Android Java

Features

- · Auto-capture by sensing finger placement
- Slippage and blurred detection
- · Halo and latent fingerprint image elimination
- · Image quality check
- Automatic segmentation
- Sequence check-in rolls and slaps acquisition
- Internation standard image compressions, formats, and interfaces
- AI-based liveness detection (ISO/IEC 30107-3)

RealPass SDK

Supported Product

RealPass-N

OS & Languages

- Windows C# / C++ / Java
- Linux C++ / Java

Features

- Security protocols and PKI: BAC, BAP, AA, PACE, PACE-CAM, CA, TA, TCC, SAC
- 1D, 2D, Postal, All Stacked codes reading
- MRZ reading & inspection
- Flexible OCR engine to read various document types
- Control the illuminations (White, IR, UV)

Image SDK

Supported Product

- · BioMini Slim 3
- BioMini Slim 2/2S
- BioMini Combo 2
- BM-Slim3
- BM-Slim2/2S
- · Other Brand Scanners*

OS & Languages

- Windows C# / C++ / Java
- Linux C++ / Java

Features

- · Minutiae extract from image
- Image format conversion from RAW to JPEG, BMP, ISO/IEC 19794-4, or JPEG 2000
- Fingerprint matching (1:1, 1:N)
- · Internation standard image compressions, formats, and interfaces

Specifications

	RealScan SG10	RealScan S60	RealScan S60M
Capture	Flat(Four/Two/Single) and	Flat(Four/Two/Single) and	Flat(Four/Two/Single) and
	Rolled(Single) fingers	Rolled(Single) fingers	Rolled(Single) fingers
Sensor Type	Optical	Optical TFT	Optical TFT
Resolution	500 ppi	500 ppi	500 ppi
Grayscale	8-bit, 256 levels	8-bit, 256 levels	8-bit, 256 levels
Image Size (WxL)	Four finger slap: 1600 x 1500 pixels	Four finger slap: 1600 x 1500 pixels	Four finger slap: 1600 x 1500 pixels
	Two finger flat: 900 x 900 pixels	Two finger flat: 900 x 900 pixels	Two finger flat: 900 x 900 pixels
	Single flat / Roll: 800 x 750 pixels	Single flat / Roll: 800 x 750 pixels	Single flat / Roll: 800 x 750 pixels
Template Format	Xperix, ISO 19794-2, ANSI 378 by Image SDK	Xperix, ISO 19794-2, ANSI 378 by Image SDK	Xperix, ISO 19794-2, ANSI 378 by Image SD
Supported Image Formats	RAW, BMP, WSQ, JPEG2000, ISO 19794-4	RAW, BMP, WSQ, JPEG2000, ISO 19794-4	RAW, BMP, WSQ, JPEG2000, ISO 19794-4
Encryption	AES-256 by Image SDK	AES-256 by Image SDK	AES-256 by Image SDK
FBI / Image Certifications	Identification Flats (Appendix F),	Identification Flats (Appendix F),	Identification Flats (Appendix F),
	Live-Scan(Tenprint) System (Appendix F),	Live-Scan(Tenprint) System (Appendix F),	Live-Scan(Tenprint) System (Appendix F
	Mobile ID FAP60 (Appendix F)	Mobile ID FAP60 (Appendix F)	Mobile ID FAP60 (Appendix F)
OS Support	Windows 7 or higher 32/64bit,	Windows 7 or higher 32/64bit,	Windows 7 or higher 32/64bit,
	Linux Ubuntu, Debian, Fedora,	Linux Ubuntu, Debian, Fedora,	Linux Ubuntu, Debian, Fedora,
	OpenSUSE, CentOS 32/64bit,	OpenSUSE, CentOS 32/64bit,	OpenSUSE, CentOS 32/64bit,
	Android 5.0 or higher (Custom 4.0)	Android 5.0 or higher	Android 5.0 or higher
Weight	1.35 kg	220 g	189 g
Platen Size (WxL)	89.0 mm x 80.0 mm	83.3 mm x 78.2 mm	83.3 mm x 78.2 mm
Sensing Area (WxL)	81.3 mm x 76.2 mm	81.3 mm x 76.2 mm	81.3 mm x 76.2 mm
Dimensions (WxLxH)	129.5 mm x 137.5 mm x 80.0 mm	118 mm x 120 mm x 19.3 mm	102.4 mm x 112 mm x 15.9 mm
Surface Protection	Optic Glass (Scratch free)	Optic Glass + AR coating (Pencil 6H)	Optic Glass + AR coating (Pencil 6H)
Ingress Protection	IP65	IP65	IP65
	(Sealed between bezel and sensor surface)	(Sealed between bezel and sensor surface)	(Sealed between bezel and sensor surface
Operating Temperature	-10 °C - 55 °C	-10 °C - 55 °C	-10 °C - 55 °C
Operating Humidity	10% - 90%, non-condensing	10% - 90%, non-condensing	10% - 90%, non-condensing
Storage Temperature	-20 °C - 80 °C	-20 °C - 80 °C	-20 °C - 80 °C
Interface	USB 3.2 Gen 1, USB-C	USB 2.0 High Speed, USB-C	USB 2.0 High Speed, USB-C
Power Source	USB Host	USB Host	USB Host
USB Voltage Level	5.0 V ±10%	5.0 V ±10%	5.0 V ±10%
Live Finger Detection	Supported	Supported	Supported
(LFD)	(by AI-based, ISO/IEC 30107-3 Compliant)	(by AI-based, ISO/IEC 30107-3 Compliant)	(by AI-based, ISO/IEC 30107-3 Complian
Sound	Speaker	Buzzer	Not Supported
LED Indicator	Supported	Supported	Not Supported
Kensington Lock	Supported	Not Supported	Not Supported
Smart Sleep Mode	Not Supported	Supported	Supported
Certification	FBI, CE, FCC, KC, RoHS, USB-IF, WEEE,	FBI, CE, FCC, KC, RoHS, USB-IF, WEEE,	FBI, CE, FCC, KC, RoHS, USB-IF, WEEE,
	UL, REACH, WHQL, IEC 62471,	UL, REACH, WHQL, IEC 62471,	UL, REACH, WHQL, IEC 62471,
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RealScan-G10	RealScan-D	RealScan-FC
Flat(Four/Two/Single) and	Flat(Two/Single) and	Upper & Lower Palms, Writer's palms,
Rolled(Single) fingers	Rolled(Single) fingers	Flat(Four/Two/Single) and Rolled(Single) finger
Optical	Optical	Optical
500 ppi	500 ppi	500 ppi
8-bit, 256 levels	8-bit, 256 levels	8-bit, 256 levels
Four finger slap: 1600 x 1500 pixels	Two finger flat: 900 x 900 pixels	Palm print: 2500 x 2500 pixels
Single flat / Roll: 800 x 750 pixels	Single flat / Roll: 900 x 900 pixels	Four finger slap: 1600 x 1500 pixels
		Single flat / Roll: 800 x 750 pixels
Xperix, ISO 19794-2, ANSI 378 by Image SDK	Xperix, ISO 19794-2, ANSI 378 by Image SDK	Xperix, ISO 19794-2, ANSI 378 by Image SDK
RAW, BMP, WSQ, JPEG2000, ISO 19794-4	RAW, BMP, WSQ, JPEG2000, ISO 19794-4	RAW, BMP, WSQ, JPEG2000, ISO 19794-4
AES-256 by Image SDK	AES-256 by Image SDK	AES-256 by Image SDK
Identification Flats (Appendix F),	Mobile ID FAP45 (Appendix F),	Identification Flats (Appendix F & Appendix P),
Live-Scan(Tenprint) System (Appendix F),	PIV Single Finger (PIV-071006)	Live-Scan(Tenprint) System (Appendix F),
Mobile ID FAP60 (Appendix F)		Live-Scan(Palm) system (Appendix P)
Windows 7 or higher 32/64bit,	Windows 7 or higher 32/64bit,	Windows 7 or higher 32/64bit,
Linux Ubuntu, Debian, Fedora,	Linux Ubuntu, Debian, Fedora,	Linux Ubuntu, Debian, Fedora,
OpenSUSE, CentOS 32/64bit,	OpenSUSE, CentOS 32/64bit,	OpenSUSE, CentOS 32/64bit,
Android 5.0 or higher	Android 5.0 or higher	Android 5.0 or higher
1.8 kg	540 g	5.26 kg
89 mm x 80 mm	48 mm x 48 mm	131.2 mm x 130.2 mm
81.3 mm x 76.2 mm	46 mm x 46 mm	127 mm x 127 mm
152 mm x 152 mm x 127 mm	84 mm x 171 mm x 63 mm	193 mm x 315 mm x 150 mm
Optic Glass (Scratch free)	Optic Glass (Scratch free)	Optic Glass (Scratch free)
IP54	IP53	IP64
(Sealed between bezel and sensor surface)	(Sealed between bezel and sensor surface)	
-10 °C - 50 °C	-10 °C - 50 °C	0 °C - 55 °C
10% - 90%, non-condensing	10% - 90%, non-condensing	10% - 90%, non-condensing
-20 °C - 70 °C	-20 °C - 70 °C	-20 °C - 70 °C
USB 2.0 High Speed	USB 2.0 High Speed	USB 2.0 High Speed
USB Host	USB Host	USB Host / Adapter
5.0 V ±10%	5.0 V ±10%	5.0 V ±10% / 12 VDC ±10%
Supported	Supported	Not Supported
(by AI-based, ISO/IEC 30107-3 Compliant)	(by Al-based)	
Speaker	Buzzer	Speaker
Supported	Supported	Not Supported
Supported	Not Supported	Not Supported
Not Supported	Not Supported	Not Supported
FBI, CE, FCC, KC, ROHS, USB-IF, WEEE,	FBI, CE, FCC, KC, WHQL, UL	FBI, CE, FCC, KC, ROHS, WEEE, REACH,
UL, REACH, WHQL, BIS, STQC, IEC62471,		WHQL, UL, BIS
PAD Level 1 & 2 by BixeLab		

Specifications

	BioMini Slim 3	BioMini Slim 2/2S
Capture	Flat(Single) fingers	Flat(Single) fingers
Sensor Type	Optical	Optical
Resolution	500 ppi	500 ppi
Grayscale	8-bit, 256 levels	8-bit, 256 levels
Image Size (WxL)	400 x 500 pixels	300 x 400 pixels
Template Format	Xperix, ISO 19794-2, ANSI 378	Xperix, ISO 19794-2, ANSI 378
Supported Image Formats	RAW, BMP, ISO 19794-4, WSQ (FBI certified)	RAW, BMP, ISO 19794-4, WSQ (FBI certified)
Encryption	Device: AES-256, RSA 1024bit, ECC 521bit	Device: AES-256, RSA 1024bit, ECC 521bit (BioMini Slim 2S Only
	SDK: AES-256	SDK: AES-256
FBI / Image Certifications	Mobile ID FAP 30 (PIV-071006),	Mobile ID FAP 20 (PIV-071006),
	PIV Single Finger (PIV-071006), FIPS	PIV Single Finger (PIV-071006), FIPS (BioMini Slim 2S Only)
OS Support	Windows 7 or higher 32/64bit,	Windows 7 or higher 32/64bit,
	Linux Ubuntu, Debian, Fedora, OpenSUSE,	Linux Ubuntu, Debian, Fedora, OpenSUSE,
	CentOS 32/64bit, Android 5.0 or higher (USB Host),	CentOS 32/64bit, Android 5.0 or higher (USB Host),
	OS/Platform Independent,	OS/Platform Independent (BioMini Slim 2S Only),
	Stand-alone Operation	Stand-alone Operation (BioMini Slim 2S Only)
Weight	111 g	91 g
Platen Size (WxL)	21.5 mm x 26.5 mm	16.5 mm x 21 mm
Sensing Area (WxL)	20.3 mm x 25.4 mm	15.2 mm x 20.3 mm
Dimensions (WxLxH)	83 mm x 45.9 mm x 20 mm	72.8 mm x 40.7 mm x 18.5 mm
Surface Protection	Optic Glass (Scratch free)	Optic Glass (Scratch free)
Ingress Protection	IP65 (Sealed between bezel and sensor surface)	IP65 (Sealed between bezel and sensor surface)
Operating Temperature	-10 °C - 50 °C	-10 °C - 50 °C
Operating Humidity	0% - 90%, non-condensing	0% - 90%, non-condensing
Storage Temperature	-20 °C - 70 °C	-20 °C − 70 °C
Interface	USB 2.0 High Speed	USB 2.0 High Speed
Power Source	USB Host	USB Host
USB Voltage Level	5.0 V ±10%	5.0 V ±10%
Live Finger Detection (LFD)	Supported (by Al-based)	Supported (by AI-based, ISO/IEC 30107-3 Compliant)
Plug & Play	Supported (by HID Protocol)	Supported (BioMini Slim 2S Only)
Standalone Mode	Supported	Supported (BioMini Slim 2S Only)
Multi Dynamic Range (MDR)	Supported	Supported
Smart Sleep Mode	Supported	Supported
Certification	FBI, CE, FCC, KC, RoHS, USB-IF, CB, IEC 62471,	FBI, CE, FCC, KC, RoHS, CB, IEC 62471, WEEE, REACH, WHQL,
	WEEE, REACH, BIS, WHQL	BIS, USB-IF, PAD Level 1 & 2 by BixeLab (BioMini Slim 2 Only)

BM-Slim3	BM-Slim2/2S	
Flat(Single) fingers	Flat(Single) fingers	
Optical	Optical	
500 ppi	500 ppi	
8-bit, 256 levels	8-bit, 256 levels	
400 x 500 pixels	300 x 400 pixels	
Xperix, ISO 19794-2, ANSI 378	Xperix, ISO 19794-2, ANSI 378	
RAW, BMP, ISO 19794-4, WSQ (FBI certified)	RAW, BMP, ISO 19794-4, WSQ (FBI certified)	
Device: AES-256, RSA 1024bit, ECC 521bit	Device: AES-256, RSA 1024bit, ECC 521bit (BM-Slim2S Only)	
SDK: AES-256	SDK: AES-256	
Mobile ID FAP 30 (PIV-071006),	Mobile ID FAP 20 (PIV-071006),	
PIV Single Finger (PIV-071006), FIPS	PIV Single Finger (PIV-071006), FIPS (BM-Slim2S Only)	
Windows 7 or higher 32/64bit,	Windows 7 or higher 32/64bit,	
Linux Ubuntu, Debian, Fedora, OpenSUSE,	Linux Ubuntu, Debian, Fedora, OpenSUSE,	
CentOS 32/64bit, Android 5.0 or higher (USB Host),	CentOS 32/64bit, Android 5.0 or higher (USB Host),	
OS/Platform Independent,	OS/Platform Independent (BM-Slim 2S Only),	
Stand-alone Operation	Stand-alone Operation (BM-Slim 2S Only)	
48.6 g	30 g	
21.5 mm x 26.5 mm	16.5 mm x 21 mm	
20.3 mm x 25.4 mm	15.2 mm x 20.3 mm	
67.5 mm x 36 mm x 15 mm	59 mm x 32 mm x 13.5 mm	
Optic Glass (Scratch free)	Optic Glass (Scratch free)	
IP65 (Sealed between bezel and sensor surface)	IP65 (Sealed between bezel and sensor surface)	
-10 °C - 50 °C	-10 °C - 50 °C	
0% - 90%, non-condensing	0% - 90%, non-condensing	
-20 °C - 70 °C	-20 °C - 70 °C	
USB 2.0 High Speed	USB 2.0 High Speed	
USB Host	USB Host	
5.0 V ±10%	5.0 V ±10%	
Supported (by Al-based)	Supported (by Al-based, ISO/IEC 30107-3 Compliant)	
Supported (by HID Protocol)	Supported (BM-Slim2S Only)	
Supported	Supported (BM-Slim2S Only)	
Supported	Supported	
Supported	Supported	
FBI, CE, FCC, KC, RoHS, USB-IF, CB, IEC 62471,	FBI, CE, FCC, KC, RoHS, CB, IEC 62471, WEEE, REACH, WHQL	
WEEE, REACH, BIS, WHQL	BIS, USB-IF, PAD Level 1 & 2 by BixeLab (BM-Slim2 Only)	

Specifications

	BioMini Combo 2
Capture	Flat(Single) fingers
Sensor Type	Optical
Resolution	500 ppi
Grayscale	8-bit, 256 levels
Image Size (WxL)	300 x 400 pixels
Template Format	Xperix, ISO 19794-2, ANSI 378
Supported Image Formats	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)
OS Support	Windows 7 or higher 32/64bit,
	Linux Ubuntu, Debian,
	Fedora, OpenSUSE,
	CentOS 32/64bit
Weight	280 g
Platen Size (WxL)	16.5 mm x 21 mm
Sensing Area (WxL)	15.2 mm x 20.3 mm
Dimensions (WxLxH)	95.7 mm x 114.8 mm x 52.6 mm
Surface Protection	Optic Glass (Scratch free)
Ingress Protection	IP65 (Sealed between bezel and sensor surface)
Operating Temperature	-10 °C - 50 °C
Operating Humidity	0% - 90%, non-condensing
Storage Temperature	-20 °C - 70 °C
Interface	USB 2.0 High Speed, CCID, PC/SC driver
Power Source	USB Host
USB Voltage Level	5.0 V ±10%
Live Finger Detection (LFD)	Supported (Embedded BM-Slim2 module)
Plug & Play	Not Supported
Standalone Mode	Not Supported
Multi Dynamic Range (MDR)	Supported
Smart Sleep Mode	Not Supported
Certification	FBI, CE, FCC, KC, RoHS, USB-IF, WHQL, UL
SAM Slot	Supported (Optional, Max 1 slot)
Contact Card	IISO 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)

	RealPass-N		
Model Name	RPN-BQ	RPN-FQ	
Capture	Passport, ID Card, Driver licence, QR code, Barcode	ePassport, ID Card, Driver licence, QR code, Barcode	
Sensor Type	Optical	Optical	
Resolution	500 ppi	500 ppi	
Image Color Depth	24-bit / pixels	24-bit / pixels	
Image Size (WxL)	Full size: 2560 x 1772	Full size: 2560 x 1772	
Illuminations	White, IR(880 nm), UV(365 nm)	White, IR(880 nm), UV(365 nm)	
Supported Image Formats	BMP, JPG, PNG, JPEG2000, TIFF	BMP, JPG, PNG, JPEG2000, TIFF	
OCR	ICAO DOC 9303(ISO-7510) compliant travel documents (2 & 3-line MRZ)	ICAO DOC 9303(ISO-7510) compliant travel documents (2 & 3-line MRZ)	
	ISO-18013 driving licenses (1-line MRZ)	ISO-18013 driving licenses (1-line MRZ)	
	Korean ID Card (National ID Card, Driver license)	Korean ID Card (National ID Card, Driver license)	
Barcode 1D	BC412, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128	BC412, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128	
	GS1 DataBar(RSS), Hong Kong 2 of 5, IATA 2 of 5, Interleaved 2 of 5, Plessey	GS1 DataBar(RSS), Hong Kong 2 of 5, IATA 2 of 5, Interleaved 2 of 5, Plessey	
	Matrix 2 of 5, MSI Plessey, NEC 2 of 5, Straight 2 of 5, Telepen	Matrix 2 of 5, MSI Plessey, NEC 2 of 5, Straight 2 of 5, Telepen,	
	Trioptic, UPC/EAN/JAN	Trioptic, UPC/EAN/JAN	
Barcode 2D	PDF 417, QR Code, QR Code Model 1, Micro QR Code,	PDF 417, QR Code, QR Code Model 1, MicroQR Code,	
	Aztec, DataMatrix, Grid Matrix, Dot Code, Han Xin, Maxicode	Aztec, DataMatrix, Grid Matrix, Dot Code, Han Xin, Maxicode	
RFID	Not Supported	ISO 14443 A/B Type(up to 848Kbps) including BAC, PA, AA, EAC, PACE	
		and SAC, PC/SC support	
OS Support	Windows 7 or higher 32/64bit,	Windows 7 or higher 32/64bit,	
	Linux Ubuntu, Debian, Fedora, OpenSUSE, CentOS 32/64bit	Linux Ubuntu, Debian, Fedora, OpenSUSE, CentOS 32/64bit	
Weight	1 kg	1 kg	
Sensing Area (WxL)	130 mm x 90 mm	130 mm x 90 mm	
Dimensions (WxLxH)	155 mm x 190 mm x 99.8 mm(device) / 103.8(guide) mm	155 mm x 190 mm x 99.8 mm(device) / 103.8(guide) mm	
Surface Protection	Tempered Glass (Scratch free)	Tempered Glass (Scratch free)	
Ingress Protection	IP54 (Sealed between bezel and sensor surface)	IP54 (Sealed between bezel and sensor surface)	
Operating Temperature	-10 °C - 50 °C	-10 °C - 50 °C	
Operating Humidity	10% - 90%, non-condensing	10% - 90%, non-condensing	
Storage Temperature	-20 °C - 80 °C	-20 °C - 80 °C	
Interface	USB 2.0 High Speed, Integrated USB 3.0 Hub 2 ports	USB 2.0 High Speed	
Power Source	USB Host / Adapter	USB Host / Adapter	
USB Voltage Level	5.0 V ±10% / 12 VDC ±10%	5.0 V ±10% / 12 VDC ±10%	
Sound	Buzzer	Buzzer	
LED Indicator	Supported	Supported	
Kensington Lock	Supported	Supported	
Certification	CB, CE, FCC, KC, RoHS, IEC 62471, WEEE, REACH, WHQL	CB, CE, FCC, KC, Rohs, IEC 62471, WEEE, REACH, WHQL	