



Xperix Product Overview

2023



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Proven Leader in Biometric Solutions with Security





Founded in 2017, Xperix Inc. has become a leading global provider of biometrics and security solutions.

As a global top-tier biometrics powerhouse, Xperix provides end-to-end biometric identity solutions which offer industry-leading performance, reliability, and simpler integration.

The company has established itself as a global premium brand in the biometrics industry and has worldwide sales network in over 133 countries and over 75% of revenue is derived from authorized sales channels. Xperix's biometric technology is used across wide areas of applications including physical access control, public/civil ID projects, fintech, forensic science, and mobile authentication. Xperix's biometrics is one of the most widely used technology and supports over 1 billion people globally providing protection, security, and convenience.

Why Xperix?

- 1 Xperix's multi-award winning fingerprint algorithm is at the heart of every Xperix product. Xperix's highly sophisticated fingerprint technology has been recognized by numerous competitions and compliances including FBI IQS, STQC, FVC and NIST MINEX.



- 3 When it comes to the security solutions, our focus is on delivering the best quality products that offer high performance and reliability throughout their lifecycle. At Suprema ID, ISO9001/14001 standards are applied to ensure quality throughout the manufacturing process. Xperix operates South Korea's largest dedicated biometrics research and manufacturing facility to ensure precise quality control.



- 2 Suprema ID's biometric technology is used across wide areas of applications including physical access control, public/civil ID projects, fintech, forensic science and mobile authentication. Suprema ID's biometrics is one of the most widely used technology and supports over 1 billion people globally providing protection, security, and convenience.





Global Sales Channel

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Xperix has established strong sales channels and network in over 133 countries and over 75% of revenue is derived from authorized sales channels. Suprema ID provides structured/bespoke product trainings, webinars, marketing supports with our partnership programs to support our partners extend their competency and revenue.

5

Xperix developed alliance with influencing global security technology partners to provide extensive application possibilities to fulfill each customer's unique requirements. In order to maximize user benefits with superior features and solutions, we have integrated over 70 of the best-of-breed leading solutions from the world's leading security vendors.



Technology Partnerships

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Xperix is uniquely suited to offer versatile biometric-based security solutions for wide array of applications. From telecommunication, banking, healthcare, BVR (Biometric Voter Registration) & national ID, Xperix is committed to providing innovative, superior-quality products that help businesses of any kind meet their security needs.



End-to-end Solution Provider

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Commitment to research and development has always been a key element of Xperix's success. Over 40% of Xperix's employees are engaged in R&D efforts and Xperix invests more than 16% of turnover to R&D every year. With our years of expertise in biometrics and security, Xperix owns over 100 technology patents and continuously introduces technology initiatives to the industry.



Beyond Technology



Spin-off at Suprema
& Established

2017



eID built in
More than

23 Countries



Technology Partnerships
Integrated over

70

of the world's security vendors



Listed in the KOSDAQ
stock market in

2019



Public Project awarded
from more than

84 Countries



Biometric ID Solution
used by More than

1 Billion users



Global Sales
Network in

130 Countries



Enrollment Scanners

Faster, Smaller & Versatile

Live scan fingerprinting refers to the technology used by law enforcement agencies and private companies to capture fingerprints and palm prints electronically, without using traditional method of ink and paper. Based on cutting-edge optical and biometric technologies, Xperix developed a range of live scanners for single, dual, ten-print and palm print capture, which are designed for law enforcement, border control, national ID and various types of commercial applications.



RealScan S60

Ultra Slim, Lightweight, and Easy-to-Integrate

RealScan S60 is the FBI Appendix F certified, Ultra Slim, and Lightweight Fingerprint live scanner. In combination 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. RealScan S60 provides advanced artificial Intelligence-based Live Finger Detection technology which is compliant with ISO 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. Its small form factor optimized not only for desktop solutions but also for easy integration into portable devices, provides a significant advantage for customers to maximize the benefit from their product and solution.



Voter registration



National ID card



Health insurance card



ABC (Automatic Border control)



e-Passport & VISA



Criminal identification



SIM card registration



Payment & POS



Mobile enrollment kits



Banking & ATM



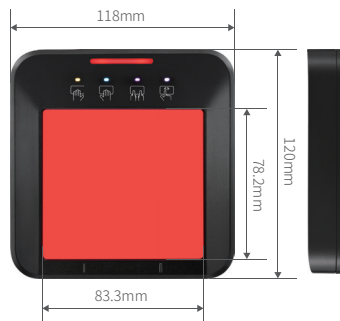
Portable enrollment device



Self-service kiosks (check-in counter)

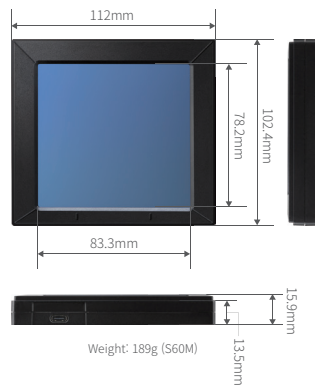
FAP 60 Enrollment Scanner

- Advanced TFT optical technology applied
- FBI IQS Appendix F Certified
- Rugged IP65
- ISO 30107-3 Compliant (PAD Level 1 & 2)



Weight: 220g (S60)

RealScan S60



Weight: 189g (S60M)

RealScan S60M



Tablets



Mobile enrollment kits



ABC(Automatic Boarder control) of self-service kiosks (check-in counter)





RealScan-G10

Compact Ten-print Live Scanner

RealScan-G10 represents next generation live scan technology. It is designed to capture single and 10 fingerprints (4+4+2 and rolled prints) with leading-edge optical technology and precise image construction technique. Reaching incredible frame rate over 20fps, the device performs extra high-speed processing with superior image quality. With its proven reliability with FBI IAFIS Appendix F certification, RealScan-G10 is the perfect ten-print capture live scanner for various forensic and civil applications.



Voter registration



National ID card



Health insurance card



ABC (Automatic Border control)



e-Passport & VISA



Criminal identification



SIM card registration



Payment & POS



Mobile enrollment kits



Banking & ATM



Portable enrollment device



Self-service kiosks (check-in counter)



FBI IAFIS Appendix F Certification

The certification provides assurance to users that certified products meet or exceed FBI interoperability standards and will work with the Integrated Automated Fingerprint Information System (IAFIS). It ensures that the images used are high quality and support all phases of identification for fingerprint experts and the IAFIS. Appendix F has stringent image quality conditions, focusing on the human fingerprint comparison and facilitating large scale machine many-to-many matching operation.

Advanced Rolled Image Construction Technology

RealScan-G10 features Advanced Rolled Image Construction technology using Xeprix's unique slip detection algorithm for constructing rolled fingerprint images. With ARIC technology, RealScan-G10 performs over 20 fps frame rate in roll capturing which ensures highest image quality and lower error rate in capturing sequences.

Intuitive User Interface

RealScan-G10's control panel consists of two operation buttons and LED indicators. The intuitive graphic icons indicate fingerprint types that the device is scanning, and LED lights at fingertips indicate fingers to be placed. The operating buttons on both sides help users to operate scanning directly from the scanner and built-in speaker enables fully programmable voice instructions.

Machine-learning based LFD

RealScan-G10 provides advanced machine-learning based Live Finger Detection technology that distinguishes a variety of fake fingerprints with an unrivaled accuracy.

Extra Wide Platen for Easier Capturing

Wide & solid, the RealScan-G10's 3.5 inch platen is the largest size in its class and ensures easier capturing when placing hands. The solid & scratch-free surfaces make it durable for many kinds of stains & damages.

Rugged IP65 Dust & Waterproof Structure

RealScan-G10's body structure has been comprehensively sealed against invasive moisture, dust and liquid. Featuring superb IP65 rated protection. Its meticulous sealing, combined with extra protective engineering, ensures faultless operation even under harsh conditions.



RealScan-FC

Compact Palm & Tenprint Enrollment Scanner

RealScan-FC is a single planted palm print live scanner for capturing various types of fingerprints including flats, rolls, palms, and writer's palms. Featuring Xperix's leading edge optical & biometric technologies, it is capable of capturing high quality images regardless of the physical condition of fingers. RealScan FC comes standard with many convenient features such as an integrated color LCD display, voice instruction, footswitch, and a mobile power supply. The device is FBI certified and provides the perfect solution for various criminal ID applications.



Civil
Identification



Airport & Border
Check



Criminal
identification



e-Passport
& VISA



Background
Check



National
ID card

Compact and Lightweight Design with 5.16" Extra Wide Platen

With its sleek and ergonomic design, RealScan-FC allows the capture of high-quality palm print, rolled and flat fingerprint images that meets FBI Image Quality Specification(IQS) Appendix F standard. Available in portable, desktop and cabinet configurations, RealScan-FC can be easily integrated into diverse applications such as border control, prisoner documentation, and employment background checks.



RealScan-D

Portable Dual Finger Live Scanner

RealScan-D is another example of Xperix's industry leading optical technology offered at a budget friendly price. RealScan-D captures single/dual flat prints as well as single finger rolls at an extremely fast frame rate of 20 fps. All the leading-edge technology resides in a sleek and ergonomic design and a user-friendly interface that makes in credibly simple to use with minimum training and maintenance.

FBI IAFIS Appendix F Certification

The certification provides assurance to users that certified products meet or exceed FBI interoperability standards and will work with the Integrated Automated Fingerprint Information System (IAFIS). It ensures that the images used are high quality and support all phases of identification for fingerprint experts and the IAFIS. Appendix F has stringent image quality conditions, focusing on the human fingerprint comparison and facilitating large scale machine many-to-many matching operation.

Advanced Rolled Image Construction Technology

RealScan-D features Advanced Rolled Image Construction technology using Xperix's unique slip detection algorithm for constructing rolled fingerprint images. With ARIC technology, RealScan-D performs over 20 fps frame rate in roll capturing which ensures highest image quality and lower error rate in capturing sequences.

Extra wide platen for easier capturing





RealScan-D offers the largest platen size in its class and ensures easier capturing when placing hands. Its wider platen offers massive 900 x 900 pixels resolution and provides up to 35% more sensing area than other products in the market and it prevents possible partial loss of fingerprints. The solid & scratch-free surfaces makes it durable for many kinds of stains & damages.

Machine-learning based LFD


RealScan-D provides advanced machine-learning based Live Finger Detection technology that distinguishes a variety of fake fingerprints with an unrivaled accuracy.



Product Data Sheet of Enrollment Scanners

Product					
Product Name		RealScan S60 / S60M	RealScan-G10	RealScan-FC	RealScan-D
Sensor	Image Quality Standards FBI	FBI IQS Appendix F	FBI IQS Appendix F	FBI IQS Appendix F	FBI IQS Appendix F
	Fingerprint Types	Single Flat & Rolls Two Thumbs Flat Four Finger Flat	Single Flat & Rolls Two Thumbs Flat Four Finger Flat	Single Flats & Rolls Dual-finger flats Four Finger Slaps Upper & Lower Palm Prints Side Palm Prints	Single Flats & Rolls Dual Finger Flats
	Resolution	500 ppi			
	Gray Scale	256 level			
	Platen Size (W x L mm)	83.3 x 78.2 (3.28" x 3.07")	89 x 80 (3.5" x 3.15")	130.2 x 131.2 (5.1" x 5.2")	48 x 48 (1.9" x 1.9")
	Sensing Area (W x H mm)	81.28 x 76.2 (3.2" x 3.0")	81.28 x 76.2	127 x 127	45.72 x 45.72
	Image Size (W x H pixels)	Four Finger Flat : 1600 x 1500 Two Thumbs Flat : 900 x 900 Single Flat & Rolls : 800 x 750	Four Finger Flat : 1600 x 1500 Two Thumbs Flat : 900 x 900 Single Flat & Rolls : 800 x 750	Palm Prints : 2550 x 2550 Four Finger Flat : 1600 x 1500 Single Flat & Rolls : 800 x 750	900 x 900
H/W	Interface	USB 2.0 High Speed			
	Power Supply	USB Power		12V/DC or USB	USB Power
	Operating Temperature (°C)	-10~50°C			
	Operating humidity	10 ~ 90% RH			
	Ingress Protection	IP65	IP65	IP64	Splash proof
	Dimensions (W x L x H mm)	S60: 118 x 120 x 19.3 (4.64" x 4.74" x 0.76") S60M: 102.4 x 112 x 15.9 (4.03" x 4.40" x 0.63")	152 x 152 x 127 (5.9" x 5.9" x 5.0")	193 x 315 x 156 (7.6" x 12.4" x 6.1")	84 x 171 x 63 (3.1" x 6.7" x 2.5")
	Weight (g)	S60: 220 / S60M: 189	1.8kg (3.96lbs)	5.26kg (11.60lbs)	0.54kg (1.19lbs)
S/W	Windows	Windows 8 or higher 32/64bit			
	Linux	Ubuntu, Debian, Fedora, Cent OS 32/64bit			
	Android	Android 5.0 or higher (Custom 4.0)			
Certification	CE	O			
	FCC	O			
	KC	O			
	UL	O			
	ROHS	O			-
	USB-IF	O			-
	WHQL	O			





Document Readers

E-passport(electronic passport) refers to a passport that has an integrated chip(IC) containing biometric data. e-Passport offers stronger security that prevents fraud or tampering with an officially issued passport and also benefits international travelers by allowing faster automated border processing. Xperix e-passport readers offer fast one-step reading of MRZ and RF chip data as well as accurate processing of e-passport for check-in counters, border control and passport issuance.



RealPass-N

Compact, Multi-functional, Full-page Document Reader

RealPass-N is a compact, full-page and multi-functional document reader for one-step reading of multiple document types including ICAO standard documents such as e-Passport, e-Visa, ID cards, and 1D & 2D barcodes. It is designed to capture or extract data from visual data page and RFID chip of electronic documents quickly and reliably in a variety of public and commercial sectors. By design and performance innovation, it provides 600DPI (Scalable) high resolution, USB 3.0 interface, tempered glass with IP54 surface and Anti-glare technology to capture image and data in multiple illuminations(White, IR, UV). RealPass-N is an ideal and ergonomic form factor with low profile and simple shape for space-saving and easy integration in self-service kiosks, e-gates and counters.



Single-Step Reading Technique

Using unique Single-Step Reading Technique, RealPass-V only takes less than one second to capture and display full page with white light and infrared imaging.



Airport



Passport
& Visa Issuance



Border Control
& Immigration Service



Duty-Free Shop



Casino



Hotel



Travel Agency



Car Rental



Currency
Exchange

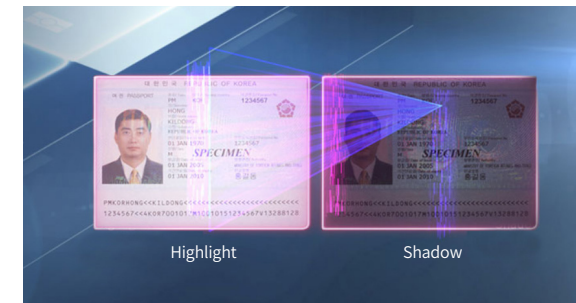
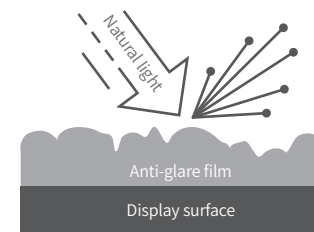


One-Step Scanning of Multiple Document Types

Designed from cutting-edge functions to capture image and data from multiple documents including ICAO(International Civil Aviation Organization) Doc 9303 compliant eMRTD(electronic Machine-Readable Travel Documents) such as e-passport, e-visa, ID cards and barcodes using one-step scanning technology.

True Image Engine & Anti-glare Technology

Adaptive image enhancement solutions via Xperix's true image engine for external lighting. Highest quality image acquisition with anti-glare technology by diminishing document laminate & hologram reflections.

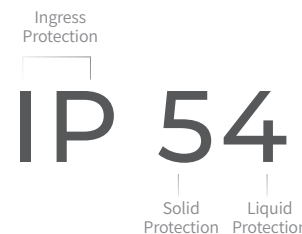


Integrated Dual RF Antenna

Fast & accurate e-Document data extraction regardless of its position in the document. With an integrated ISO14443 contactless RFID reader module, it supports BAC, EAC, PACE & all related chip security protocols to access digital chip data.

Durable Tempered Glass & IP54-rated

Rugged hardware design with durable tempered glass & IP54-rated dust & waterproof surface for the harsh environment.





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