RealScan SG10

Redefining Excellence. The iconic live scanner is reborn.

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 AI-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.

xperix

Key Features

- Portability with Ultra-compact design
- Plug & Play
- Flexibility in Hardware Design
- Ease of Integration
- Faster Data Transfer with USB 3.2 Gen 1

- Simplified Development with SDK
- Support complex and data-intensive applications
- Enhanced Security
- Fraud Prevention with PAD Level 1 & 2 standards

AI-based Liveness Detection
(Compliant with ISO/IEC 30107-3 **PAD Level 1 & 2** Standard)

B BixeLab
ISO 30107-3 Compliant

Ultra-compact size
The world's lowest optical live scanner

Plug & Play

Flat(Four, Two, Single) and Rolled(Single) fingerprints capturing

MOSIP COMPLIANT

MOSIP Compliant
(PC & Android)

FBI Appendix F & Mobile ID **FAP 60** certified

Ingress Protection **IP65**

Super speed with **USB 3.2 Gen 1, USB-C**

Applications

- Mobile enrollment kits
- National ID
- Voter registration
- e-Passport & VISA
- ABC (Automated Border Control)
- Criminal identification
- Self-service kiosks
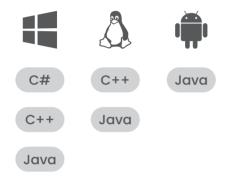- Portable enrollment device

RealScan SDK

Xperix's SDK development framework allows control of our 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.

- Auto-capture by sensing finger placement
- Slippage and blurred detection
- Halo effect and ghost image elimination
- Image quality check
- Automatic segmentation
- Sequence check-in rolls and slaps acquisition
- Internation standard image compressions, formats, and interfaces

C#	C++	Java
C++	Java	
Java		

Specifications

	RealScan SG10
Capture	Flat(Four/Two/Single) and Rolled(Single) fingers
Sensor Type	Optical
Resolution	500 ppi
Grayscale	8-bit, 256 levels
Image Size (WxL)	Four finger slap: 1600 x 1500 pixels, Two finger flat: 900 x 900 pixels, Single flat / Roll: 800 x 750 pixels
Template Format	Xperix, ISO 19794-2, ANSI 378 by Image SDK
Supported Image Formats	RAW, BMP, WSQ, JPEG2000, ISO 19794-4
Encryption	AES-256 by Image SDK
FBI / Image Certifications	Identification Flats(Appendix F), Live-Scan (Tenprint) System(Appendix F), Mobile ID FAP60 (Appendix F)
OS Support	Windows 7 or later 32/64bit, Linux OpenSUSE, Fedora, Ubuntu, CentOS, Debian 32/64bit, Android 5.0 or later (Custom 4.0)
Weight	1 350 g
Platen Size (WxL)	89 mm x 80 mm
Sensing Area (WxL)	81.3 mm x 76.2 mm
Dimensions (WxLxH)	129.5 mm x 137.5 mm x 80 mm
Surface Protection	Optic Glass (Scratch free)
Ingress Protection	IP65 (Sealed between bezel and sensor surface)
Operating Temperature	-10 ℃ - 55 ℃
Operating Humidity	10% - 90%, non-condensing
Storage Temperature	-20 ℃ - 80 ℃
Interface	USB 3.2 Gen 1, USB-C
Power Source	USB Host
USB Voltage Level	5.0 V ±10%
Liveness Detection	Supported (ISO/IEC 30107-3 PAD Level 1 & 2) *Certified by Sep. 2025
Plug & Play	Supported
Sound	Speaker
LED Indicator	Supported
Kensington Lock	Supported
Certification	FBI, CE, FCC, KC, RoHS, USB-IF, WEEE, REACH, WHQL, UL, IEC 62471, ISO/IEC 30107-3