

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.



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)



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



Plug & Play



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



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 fingerprint 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, JPEG, JPEG2000, ISO 19794-4 (Quality scoring: NFIQ 1 and NFIQ 2)
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 10 or higher 32/64bit, Linux Ubuntu, Debian, Fedora, OpenSUSE, CentOS 32/64bit, Android 5.0 or higher
Weight	1.35kg
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	From -10 °C to 55 °C
Operating Humidity	10% - 90%, non-condensing
Storage Temperature	From -20 °C to 80 °C
Interface	USB 3.2 Gen 1, USB-C
Power Source	USB Host
USB Voltage Level	5.0 V ±10%
Liveness Detection	Supported (by AI-based, ISO/IEC 30107-3 PAD Level 1 & 2 Compliant)
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



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