

# RealScan-G10

Compact Ten-print Live Scanner



RealScan-G10 is a compact live-scanner for single and ten-print capture. Xperix's advanced optical technology allows high-speed image capturing and seamless image processing. IP65-rated dust and water resistant housing makes it suitable for indoor and mobile environments. With its proven reliability of FBI certification, RealScan-G10 is the perfect portable live-scanner for civil and criminal applications.



Anti-shock

IDENT  
US-VISIT



Kensington

FBI

FIPS  
201



IP 54

**xperix**

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## Compact Ten-print Live Scanner



### FBI IAFIS Appendix F Certification

The certification provides assurance to users that RealScan-G10 meets or exceeds FBI interoperability standards and will work with the Integrated Automated Fingerprint Information System (IAFIS). It ensures that the images used are high quality and supports 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 one-to-many matching operation.

### Advanced Rolled Image Construction Technology

RealScan-G10 features Advanced Rolled Image Construction technology using Xperix's unique slip detection algorithm for constructing rolled fingerprint images. With ARIC technology, RealScan-G10 performs over 15 fps frame rate in roll capturing which ensures highest image quality and lower error rate in capturing sequences.

### 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 surface makes it durable for many kinds of stains & damages.

### Rugged IP54 Dust & Waterproof Structure

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

### Powerful Internal DSP

RealScan-G10 is equipped with powerful CPU which enables high-speed image processing in capturing, storing, processing and transferring fingerprint data. With the CPU, Xperix's unique Image Pre-Processing technique results more frame rates in capturing and richer pixel throughput hence produces better image quality.

### SDK Features

- Auto capture of flats and slaps by sensing finger placement on the prism
- Slippage detection for flats and rolls
- Halo effect and ghost image elimination
- Image quality checks
- Automatic segmentation of four finger slaps
- Sequence check in rolls and slaps acquisition
- International standard image compressions, formats and interfaces
- Machine learning based Live fingerprint detection algorithm

### Specifications

Main	Fingerprint Type	Flat (Four/Two/Single) and Rolled (Single) fingers
	Sensor Type	Optical
	Capturing Speed	4+4+2 in 15 seconds
	Resolution	500 ppi
	Image Grayscale	8-bit, 256 levels
	Platen Size (W x L)	89 mm x 80 mm
	Sensing Area (W x L)	81.28 mm x 76.2 mm
	Image Size	Four Finger Slap: 1600 x 1500 pixels, Single flat / roll: 800 x 750 pixels
	Image Quality Standards	FBI IAFIS Appendix F (NFIQ 1.0 and NFIQ 2.0 Support)
	Supported Image Formats	RAW, BMP, WSQ, JPEG2000, ISO19794-4
MTBF	50,000 Hours	
Hardware	USB	USB 2.0 High-speed
	Cable Length	1.6 m or longer
	Ingress Protection	IP54 (Sealed between bezel and sensor surface)
	Sensor Surface	Optic Glass (Scratch-free)
	Speakers	Built-in
	LED indicator	Supported
	Operating Temperature	From -10°C to 55°C
	Operating Humidity	10% - 90%, non-condensing
	Storage Temperature	From -20°C to 70°C
	Dimension (W x L x H)	152 mm x 152 mm x 127 mm
	Weight	1.8kg
Certification	FBI, CE, FCC, KC, RoHS, USB-IF, WEEE, UL, REACH, WHQL, BIS, STQC, IEC62471	
Compatibility	Operating System	Windows 10 or higher 32/64bit Linux Ubuntu, Debian, Fedora, OpenSUSE, Cent OS 32/64bit Android 5.0 or higher

\*RealScan-G10i (RS-G10i) with same specifications is available for Indian market.

### Applications

- Criminal identification
- Airport and border check
- Civil identification
- Employee background check
- National ID cards
- e-Passport and Visa

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