

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. IP54-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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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 is IP54-rated for protection against moisture, dust, and liquid, ensuring reliable operation in challenging environments with comprehensive sealing and additional protective engineering.

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	Single Rolls / Single Flats / Four Finger Slaps / Two Thumbs
	Sensor Type	Optical
	Capturing Speed	4+4+2 in 15 seconds
	Resolution	500 dpi
	Image Grayscale	8 bit, 256 levels
	Platen Size	89 x 80 mm (3.5" x 3.15") (W x L)
	Sensing Area	81.28 x 76.2 mm (W x L)
	Image Size	Four Finger Slap: 1600 x 1500 pixels / Finger Roll: 800 x 750 pixels
	Image Quality Standards	FBI IAFIS Appendix F (NFIQ 1.0 and NFIQ 2.0 Support)
	Image Format	RAW, WSQ, BMP, PNG, JPEG2000, JPG
Hardware	MTBF	50,000 Hours
	USB	2.0 High-speed (Data & Power)
	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	Yes
	Operating Temperature	-10°C ~ +55°C
	Operating Humidity	5 ~ 95%, non-condensing
	Storage Temperature	-30°C ~ +60°C
	Dimension	152 x 152 x 127 mm (5.9" x 5.9" x 5.0") (W x L x H)
Compatibility	Weight	1.8kgs (3.96lbs)
	Certification	CE, FCC, KC, UL, ROHS, USB-IF, WHQL
Compatibility	Operating System	- Windows : Windows 8 and above, 32/64bit
		- Linux : Ubuntu, Debian, Fedora, Cent OS 32/64bit
		- Android 5.0 and above

Applications

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



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