RealScan-G10

Compact Ten-print Live Scanner

RealScan-G10 is a compact live-scanner for single and ten-print capture. Suprema'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 · IP54

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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 Suprema'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.

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 IP54 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 400MHz CPU which enables high-speed image processing in capturing, storing, processing and transferring fingerprint data. With the CPU, Suprema's unique Image Pre-Processing technique results more frame rates in capturing and richer pixel throughput hence produces better image quality. It also minimizes device's initialization time to incredible 0.57 second.

Software Features

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
	Frame Rate	20 frames per second
	Capturing Speed	4+4+2 in 15 seconds
	Resolution	500 dpi, 256 gray
	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
Interface	USB	2.0 High-speed (Data & Power)
	IP Rating	IP54
	Speakers	Built-in
	LED indicator	Yes
	Operating Temperature	-10°C ~ 50°C
	Operating Humidity	10 ~ 90%, non-condensing
	Dimension	152 x 152 x 127 mm (5.9" x 5.9" x 5.0") (W x L x H)
	Weight	1.8kgs (3.96lbs)
	Certification	CE, FCC, KC, UL, ROHS, USB-IF, WHQL
Compatibility	Operating System	- Windows : Windows XP, Vista, 7, 8, 8.1, 10 32/64bit - Linux : Ubuntu, Debian, Fedora, Cent OS 32/64bit - Android 5.0 and above

Applications

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