HID®

Lumidigm® V-Series V371 Fingerprint Reader

South Africa President Jacob Zuma receives his Smart ID Card.

Source: GCIS

FINGERPRINT AND CARD AUTHENTICATION ON A SINGLE DEVICE

- **Best Available Biometric Performance —** Integrated Lumidigm V-Series fingerprint sensor provides industry-leading biometric authentication.

- **Detects Fraudulent Verification Attempts —** Award-winning liveness detection easily distinguishes between fake and legitimate biometric characteristics.

- **Streamlines Access for Authorized Users —** Convenient interface lets authorized users quickly validate their identities and be on their way.

- **Eliminates Fraud Due to Shared or Stolen IDs —** Multi-factor authentication with a biometric ensures no user can be verified with someone else's ID card.

- **Leverages Biometric Features of Smart Cards —** Biometric citizen ID cards may be used for assured authentication in any application where a card alone is not sufficient proof of real identity.

The Lumidigm® V371 Reader combines industry-leading biometric performance of HID Global's multispectral fingerprint technology and its best-in-class contactless OMNIKEY® RF card-reading technology into a single, integrated unit for strong multi-factor authentication. Expanding on the success of the Lumidigm V-Series fingerprint sensors and modules, this HID Biometrics solution enables customers to leverage biometric smart ID cards for a range of applications where real identity verification is critical.

The patented multispectral imaging capability of the Lumidigm V371 reads fingerprint data from both the surface and the subsurface of the skin to deliver superior, single-try biometric performance across all populations, including users with poorly-defined or damaged fingerprints. Award-winning liveness detection prevents the use of fake fingerprints to verify against a borrowed or stolen smart card. These biometric capabilities are combined with contactless card-reading technology to provide strong authentication in one device.

The V371 provides a quick, single-handed interface for user convenience. With the easy-to-integrate and compact V371, multi-factor authentication can be effortlessly and cost-effectively implemented in applications such as government benefit distribution, voter ID, bank account applications, high-value financial transactions, healthcare eligibility verification, and e-prescribing.

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Lumidigm V371 FEATURES:

- Lumidigm® multispectral imaging fingerprint technology
- Convenient, single-handed interface with contactless card cradle
- Flexible single-factor and two-factor authentication options
- State-of-the-art liveness detection

technology adaptable against future spoof threats
- Supports MIFARE® Classic, MIFARE DESFire® 0.6, and MIFARE DESFire EV1 contactless cards
- Easy integration with the Lumidigm software development kit (SDK)
- Indicator lights: blue, green, red
- USB 2.0 interface

- ANSI 378 and ISO 19794-2 / MINEX III certified fingerprint template and algorithm (with SDK 6 or higher)
- Biometric verification (1:1) and identification (1:N) functions (performed on the USB host device)

SPECIFICATIONS

Lumidigm® V371

FINGERPRINT IMAGING SYSTEM	
Technology	Patented Lumidigm optical multispectral imaging
Image resolution / bit depth	500 dpi / 8-bit, 256 grayscale
Platen area	0.7" x 1.1" (18mm x 28mm) ellipse
BIOMETRIC FUNCTIONS	
Image out	ANSI 381 compliant, ISO 19794-4:2011, FBI certified WSQ, Flat Binary
Template out	ANSI 378 compliant; ISO/IEC 19794-2:2011
Score or verification (1:1)	Requires ANSI 378 template input
Identification (1:N)	Uses ANSI 378+ templates as input
Liveness detection	Included
Latent protection	Included
FINGERPRINT TEMPLATE STORAGE	
Verification (1:1)	n/a on device; unlimited on PC
Identification (1:N)	Up to 5000 users on USB host (SDK 6+); up to 1000 users per group, unlimited groups (SDK 5) Note: 1:N templates not compatible between SDK 5 and SDK 6
CARD READING SYSTEM	
Contactless card interface	13.56 MHz
Supported smartcards	ISO14443A/B ISO15693
Supported credentials	MIFARE® Classic, MIFARE DESFire® 0.6, and MIFARE DESFire EV1 contactless cards
Transmission rate	Up to 848 kb/s
ENVIRONMENTAL RANGE	
Ingress protection	IP65 at the platen / IP53 enclosure
Operating temperature	0 to 60°C
Storage temperature	-20 to 80°C
ESD Immunity	IEC 61000-4-2 4kV/8kV
INTERFACE	
USB	High-speed USB 2.0 Bus Powered
Indicator Lights	Blue / Green / Red
Operating systems supported	Windows 10 (32b/64b); Windows 8 (32b/64b); Windows 7 (32b/64b); Windows XP/2000 (Deprecated)
Encryption	Encrypted video for privacy/playback protection
FORM FACTOR	
Overall dimensions	79.2 mm x 124.3 mm x 63.2 mm (3.12" x 4.89" x 2.49")
Housing	Plastic, IP53
POWER SUPPLY REQUIREMENTS	
Supply current — operational	+5 VDC 500 mA (peak)
Supply current — idle	+5 VDC 250 mA (typical)
STANDARDS COMPLIANCE	
Interoperability	ANSI 378, ISO 19794-2:2011, ANSI 381, ISO 19794-4:2011, NFIQ compliant, MINEX III-certified algorithm
Device certifications	CE, FCC Part 15 Subpart C, RSS Gen, RSS 210, R&TTE Directive including EN 300 330, EN 301 489, RoHS, DEA, EPCS, Microsoft WHQL
MINIMUM SYSTEM REQUIREMENTS	
Interface	High-speed USB 2.0 (480 Mbps)
Memory	64 MB free RAM
Operating system	Supported OS required (see Interface)

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