**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.

**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)

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## 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)<br>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,<br>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) |

**For more information, please .**