HID®

Lumidigm® V-Series Fingerprint Sensors

Benefits

- The industry's best fingerprint images
- Meets high-performance challenges
- Designed for easy integration
- Superior liveness detection protects against fake and spoof fingerprints
- Eliminates failure to enroll (FTE) and failure to acquire (FTA) headaches
- Enables high throughput
- Requires minimal maintenance
- Yields a high return on investment for integrators and end-users

Features

- Patented multispectral imaging technique looks at and beneath the skin surface, simultaneously
- Flexible, powerful device outputs
  • Image   • Template   • Match score
- Compact design
- State-of-the-art liveness detection technology adaptable against future spoof threats
- Expansive operating range
  • -10 to 60°C, wet or dry
- 500 dpi

Lumidigm V-Series fingerprint sensors perform like no other... anytime, anywhere!

Lumidigm V-Series fingerprint sensors deliver industry-leading biometric performance regardless of environmental or skin conditions. You can depend on the V-Series to return superior images on anyone, anytime, in any environment.

Superior Performance

Lumidigm V-Series fingerprint sensors outperform other sensors by improving your application's throughput, accuracy, speed, and security. Let Lumidigm patented technology solve your management hassles and users' frustration by delivering the high-quality images you expect...every time.

Image is Everything

Lumidigm multispectral imaging technology simultaneously reads the surface and subsurface to capture clear, clean images every time—even when surface features are absent or hard to distinguish due to age, dirt, finger pressure, and skin or environmental conditions. Our sensors enroll and verify every fingerprint including those that thwart conventional sensors. Solve failure to enroll (FTE) and failure to acquire (FTA) issues with Lumidigm V-Series fingerprint sensors.

Superior Liveness Detection

Eliminate performance problems associated with conventional fingerprint sensors. Lumidigm V-Series sensors protect against fake and spoof fingerprints by capturing detailed surface and subsurface data from the fingertip. Using the biometric industry's best liveness detection technology, Lumidigm provides the most secure and accurate sensors available—over 20,000 samples tested and detected to date.

	V30x Sensors	V31x Sensors
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" ellipse	
BIOMETRIC FUNCTIONS		
Image out	ANSI 381 compliant	
Template out	ANSI 378 compliant	
Score or verification (1:1)	Requires ANSI 378 template input	
Identification (1:N)	Available (V30x-30 only)	Uses ANSI 378 templates as input
Latent detection	Included	
Latent protection	Included	
TEMPLATE STORAGE		
Verification mode (1:1)	Up to 1000	Unlimited
Identification mode (1:N)	Up to 400 (V30x-30 only)	Up to 1000 users per group, unlimited groups
BIOMETRIC PERFORMANCE		
Finger placement to image	1.3 sec. (typical)	800 ms – 1 sec (typical)
Finger placement to template / score	2.0 sec. (typical)	900 ms – 1.1 sec (typical)
Finger placement to identification	2.1 sec. (typical, V30x-30 only)	950 ms – 1.1 sec (typical)
ENVIRONMENTAL *Note: biometric performance is maintained throughout the operating ranges specified.*		
Ingress protection at platen	IP65	
OPERATING WITH ENCLOSURE Temperature	-10 to 60°C	
Humidity	0–100% RH condensing	
ESD Immunity	IEC 61000-4-2 Level 4+/-15 kV Air	
INTERFACE		
USB 2.0	480 Mbps high-speed	
Operating systems supported	Windows 8 / 8 Embedded (32/64-bit) Windows 7 / 7 Embedded (32/64-bit), Windows XP / XP Embedded Linux Android	Windows 8 / 8 Embedded (32/64-bit) Windows 7 / 7 Embedded (32/64-bit) Windows XP / XP Embedded Linux (Intel 32-bit and 64-bit)
Encryption	n/a	Encrypted video for privacy/playback protection
FORM FACTOR		
Overall dimensions	3.25"W x 4.00"D x 2.35"H (8.3 cm x 10.2 cm x 6 cm)	
Housing	Painted magnesium alloy, IP65 rating	
POWER SUPPLY REQUIREMENTS		
Supply current — operational	+5 VDC 500 mA (peak)	+5 VDC 300 mA (peak)
Supply current — idle	+5 VDC 100 mA (typical)	+5 VDC 100 mA (typical)
STANDARDS COMPLIANCE		
Interoperability	ANSI 378, ISO 19794-2:2005, ANSI 381, ISO 19794-4:2005, NFIQ compliant, MINEX-certified algorithm	
Device certifications	CE, FCC Part 15 Class B, EN 60950, IEC 62471, RoHS, DEA EPCS, Certified support for thin clients	
MINIMUM SYSTEM REQUIREMENTS		
Interface	USB 1.1	High-speed USB 2.0 (480 Mbps)
Memory	n/a	64 MB free RAM
Operating system	n/a	Supported OS required

ASSA ABLOY

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For Lumidigm inquiries:

+1 (505) 272-7057
lumidigm@hidglobal.com

North America: +1 512 776 9000
Toll Free: +1 800 237 7769
Europe, Middle East, Africa:
+44 1440 714 850
Asia Pacific: +852 3160 9800
Latin America: +52 55 5081 1650

hidglobal.com