Lumidigm® M-Series Fingerprint Sensors

The Lumidigm M-Series is the fast and reliable fingerprint authentication solution that will exceed your expectations with the proven Lumidigm Advantage. Securely authenticate a user and enable your identity and access management solution with a simple tap of a finger.

Renowned technology.

Close that frustrating performance gap and make security simple — without compromising on convenience. Lumidigm multispectral fingerprint technology is up to 20% more reliable than conventional technology because it leverages rich fingerprint data that lies beneath the skin. It works on everyone, everywhere.

Fast and reliable.

No sensor provides the speed and reliability available from the Lumidigm M-Series. A good solution makes life simpler, and the M-Series exceeds that challenge. Convenient, lightning-fast and easy to use, the M-Series sensors authenticate on the first try, no matter who you are or what the weather is doing. The M-Series facilitates workflow and finally makes biometrics a practical reality.

Built for business.

Protect your bottom line. The M-Series extends the Lumidigm Advantage to your value-conscious enterprise while providing the durability and performance that you require. Enjoy all the benefits of multispectral imaging at a price that delivers a compelling return on investment.

What is the Lumidigm Advantage? Quite simply, Lumidigm's patented multispectral imaging approach is the best there is. Lumidigm technology was developed specifically to address the shortcomings that have plagued the biometrics industry. Let Lumidigm exceed your expectations of what biometrics can do to increase both security and user convenience.

SPECIFICATIONS

	M30x Sensors	M311 Sensor
IMAGING SYSTEM		
Technology	Patented Lumidigm optical multispectral imaging	
Image resolution / bit depth	500 dpi / 8-bit, 256 grayscale	
Platen area	17.4 x 13.9 mm (rectangular), uncoated	
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)	Uses ANSI 378 templates as input	
Latent protection	Included	
TEMPLATE STORAGE		
Verification mode (1:1)	Up to 50,000	Unlimited
Identification mode (1:N)	Up to 1,000 users per group, up to 10 groups	Up to 10,000 users per group, unlimited groups
BIOMETRIC PERFORMANCE		
Finger placement to image	1.3 sec. (typical)	350 ms (typical)
Finger placement to template / score	1.8 sec. (typical)	400-600 ms (typical)
Finger placement to identification	2.0 sec (typical) — 1,000 users	500-700 ms — 1,000 users
ENVIRONMENTAL *Note: biometric performance is maintained throughout the operating ranges specified.*		
Temperature (operating)	0 to 60°C	
Humidity	0–95% RH non-condensing	
Ingress protection at platen	IP65	
ESD Immunity	IEC 61000-4-2 Level 4+/-15 kV Air	
INTERFACE		
USB 2.0	480 Mbps high-speed	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
POWER SUPPLY REQUIREMENTS		
Supply current — operational	+5 VDC 400 mA (peak)	+5 VDC 225 mA (peak)
Supply current — idle	+5 VDC 200 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, 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

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