

Lumidigm[®] M-Series Secure Line

PROTECTING YOUR NETWORKS IN AN UNSAFE WORLD

HID patented multispectral imaging (MSI) works on the most difficult finger types



Extra Dry



Extra Oily or Wet



Damaged



Aged



Dirty



Cold

HID MSI ensures users have a fast, single touch experience and authorized users are not falsely rejected

Endpoints are the weakest link in your network security. Connecting devices outside your well protected internal network establishes a path for hackers to bypass standard security controls and access your network. Even the best firewalls are ineffective. Vulnerable endpoints enable cyber criminals to access your network stealing data or holding data hostage.

It is estimated that 70% of security breaches originate at an endpoint and over 1 million malware variants are created each day, most of which are directed at endpoints. HID's endpoint encryption is the critical layer for endpoint security. Encryption protects the data on the fingerprint readers and during transmission, preventing cyber criminals from accessing your network. By effectively blocking threats and access attempts HID reduces your risk of:

- Downed networks and lost business
- Financial loss from theft, ransom or reparations to third parties
- Brand damage and lost customers



M420-B1-01

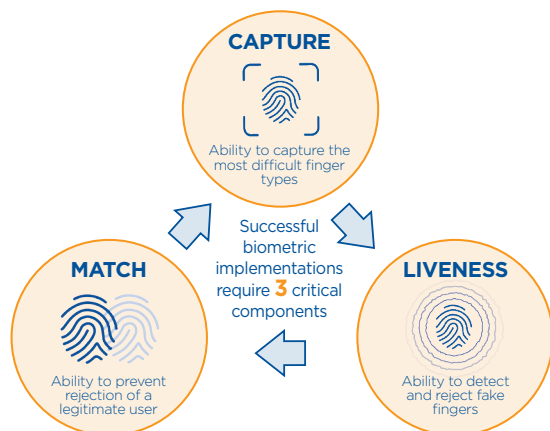
M421-B1-01

KEY BENEFITS:

- **Reduce Financial Losses** – HID MSI technology, the market leading liveness detection accurately and consistently identifies and rejects fake finger attempts
- **Protect Data Assets** – Encryption prevents cyber criminals from gaining unauthorized access to your networks and intellectual property
- **Protect Keys** – Physical tamper protection and active erase prevents cyber criminals from accessing keys and data stored on fingerprint readers

APPLICATIONS:

- Workforce Management
- Physical Access Control
- Single Sign-On
- Point of Sale Systems
- Payment Schemes
- Visitor Identification
- Know Your Customer
- Loyalty/Membership Programs
- Compliance



HID patented multispectral imaging (MSI) technology delivers market leading Capture, Liveness and Match functionality. Ensuring a successful biometric implementation and superior user experience.

[Click here to learn more about Capture, Liveness, and Match!](#)

Secure Line M420-B1-01
(on device PAD, encryption, template creation & 1:1 matching)

Secure Line M421-B1-01
(on device PAD, encryption, template creation & 1:1 matching)



FINGERPRINT IMAGING SYSTEM	
Technology	HID Patented Lumidigm® Multispectral Imaging (MSI)
Output image resolution / bit depth	500 dpi / 8-bit, 256 grayscale
Platen area	0.55" x .69" (13.9mm x 17.4mm) rectangle, durable, chemical resistant hard optical glass (no coatings to wear out)
BIOMETRIC FUNCTIONS	
Image output format	Uncompressed or WSQ compressed images (FBI Certified)
Template output format	ANSI 378 and ISO 19794-2 compliant (MINEX III certified)
Match on device	ANSI 378 and ISO 19794-2 template inputs supported
Presentation Attack Detection (PAD)	ISO/IEC 30107-3, Level 1 Presentation Attack Detection (PAD) certified Multispectral Imaging (MSI), Live Finger Detection (LFD)
Latent protection	User Configurable
FINGERPRINT TEMPLATES	
Verify (1:1) Template Storage	Based on host storage capacity
Identify (1:N) User Storage	N/A
Total (1:N) User-Finger Templates	On Host - 5,000 users, 10 fingers per user, 3 images per finger
SECURITY FEATURES	
Physical security	Hard epoxy encapsulated electronics with active tamper mesh, detection switches, temperature sensors, tamper evident label
Tamper detection and response	Secure battery backed memory with active memory zeroization upon Intrusion Detection
Cryptographic algorithms supported	AES 128/256, TDES 2/3 Key, SHA-256, RSA-2048. See Secure Integration Kit data sheet for details
BIOMETRIC PERFORMANCE	
Finger detection to image out	1.3 sec. (typical)
Finger detection to template out	1.6 sec. (typical)
Presentation Attack Detection (PAD) enabled	Add 0.6 sec. (typical)
ENVIRONMENTAL RANGE	
Temperature (operating, with enclosure)	-10 to 60°C
Ambient Light Immunity	90 Klux (PAD Off) / 10 Klux (PAD On)
Humidity (operating, with enclosure)	0 – 95% RH
ESD Immunity	IEC 61000-4-2 level 3 (+/-8kV air discharge, 6kV contact discharge)
INTERFACE	
USB	USB 2.0 high speed (480 Mbps), Mini B connector USB 2.0 high speed (480 Mbps), 2m USB cable
Operating systems supported	Windows® 10 (64-bit), Linux X86/X64
FORM FACTOR & DURABILITY	
Overall dimensions	1.44"W x 2.53"D x 1.74"H (36.8mm x 64.4mm x 44.3mm) 1.85"W x 3.02"D x 2.06"H (47.1mm x 76.8mm x 52.5mm)
Enclosure	ABS Plastic
POWER SUPPLY REQUIREMENTS	
Supply current — operational	+5 VDC, 400 mA (peak)
Supply current — idle	+5 VDC, 200 mA (typical)
STANDARDS COMPLIANCE	
Interoperability	ANSI-378, ISO 19794-2, ISO/IEC 19784-1, NIST MINEX III Certified
Device Certifications	CE, FCC, UL/CB, IEC 62471, IEC-60950
Environmental	(REACH, RoHS, WEEE)
Ingress	Ingress at platen IP65 IP52
Other	NIST CAVP
Driver Support	Microsoft WHQL Certified for Windows



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) 9171-1108

For more global phone numbers click here

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2022-08-25-eat-lumidigm-mseries-secure-line-ds-en PLT-05090

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