



# Lumidigm<sup>®</sup> V-Series Secure Line

V420

V421

### Applications

- ATM Transactions
- Teller Services
- Government ID
- Voting
- Boarder Control
- Citizen Benefits
- Self Service Kiosk
- Drug Dispensing
- Know Your Customer

### PROTECTING YOUR NETWORKS IN AN UNSAFE WORLD

- **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

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

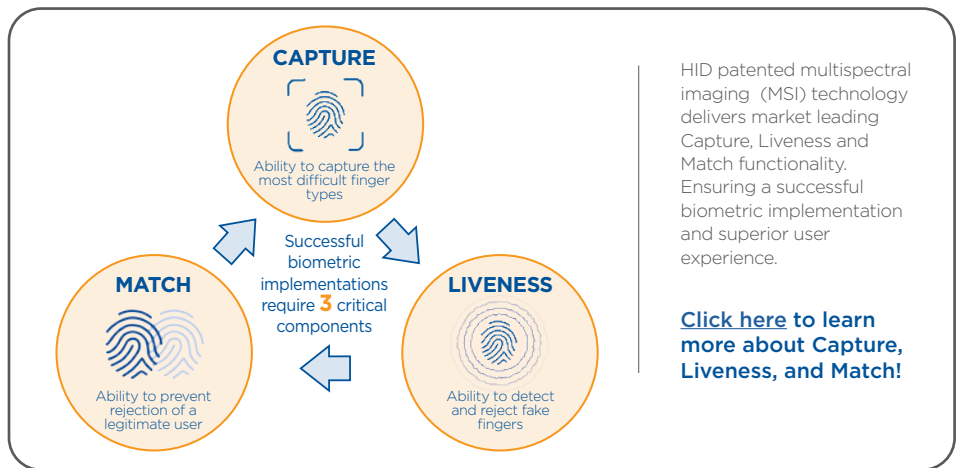
each day, most of which are directed at endpoints. HID's endpoint encryption is the critical layer for endpoint security. Encryption protects the data on the fingerprint readers and during transmission, preventing cyber criminals from accessing your network. By effectively blocking threats and access 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

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



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



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!](#)

# SPECIFICATIONS



**Secure Line V420-NC-01**  
(on device PAD, encryption, template creation & 1:1 matching)



**Secure Line V421-NC-01**  
(on device PAD, encryption, template creation & 1:1 matching)

## FINGERPRINT IMAGING SYSTEM

<b>Technology</b>	HID Patented Lumidigm® Multispectral Imaging (MSI)
<b>Output image resolution / bit depth</b>	500 dpi / 8-bit, 256 grayscale
<b>Platen area</b>	0.7" x 1.1" (17.8mm x 27.9mm) ellipse; durable, chemical resistant, hard optical glass (no coatings to wear out)

## BIOMETRIC FUNCTIONS

<b>Image output format</b>	Uncompressed or WSQ compressed images (FBI Certified)
<b>Template output format</b>	ANSI 378 and ISO 19794-2 compliant (MINEX III certified)
<b>Match on device</b>	ANSI 378 and ISO 19794-2 template inputs supported
<b>Presentation Attack Detection (PAD)</b>	ISO/IEC 30107-3, Level 1 Presentation Attack Detection (PAD) certified Multispectral Imaging (MSI), Live Finger Detection (LFD)
<b>Latent protection</b>	User Configurable

## FINGERPRINT TEMPLATES

<b>Verify (1:1) Template Storage</b>	Based on host storage capacity
<b>Identify (1:N) User Storage</b>	N/A
<b>Total (1:N) User-Finger Templates</b>	On Host - 5,000 users, 10 fingers per user, 3 images per finger

## SECURITY FEATURES

<b>Physical security</b>	Hard epoxy encapsulated electronics with active tamper mesh, detection switches, temperature sensors, tamper evident label
<b>Tamper detection and response</b>	Secure battery backed memory with active memory zeroization upon Intrusion Detection
<b>Cryptographic algorithms supported</b>	AES 128/256, TDES 2/3 Key, SHA-256, RSA-2048. See Secure Integration Kit data sheet for details

## BIOMETRIC PERFORMANCE

<b>Finger detection to image out</b>	1.3 sec. (typical)
<b>Finger detection to template out</b>	1.6 sec. (typical)
<b>Presentation Attack Detection (PAD) enabled</b>	Add 0.6 sec. (typical)

## ENVIRONMENTAL RANGE

<b>Temperature (operating, with enclosure)</b>	-10° to 60°C
<b>Ambient Light Immunity</b>	32+ Klux (PAD On)
<b>Humidity (operating, with enclosure)</b>	0 - 95% RH
<b>ESD Immunity</b>	IEC 61000-4-2 level 4 (+/-15kV air discharge, 8kV contact discharge)

## INTERFACE

<b>USB</b>	USB 2.0 high speed (480 Mbps), Mini B connector	USB 2.0 high speed (480 Mbps), 2m USB cable
<b>Operating systems supported</b>	Windows 7/8/10 (32/64-bit), Linux X86/X64	

## FORM FACTOR & DURABILITY

<b>Overall dimensions</b>	2.67"W x 2.85"D x 2.01"H (67.9mm x 72.5mm x 51.2mm)	3.3"W x 3.97"D x 2.33"H (84mm x 100.9mm x 59.2mm)
<b>Enclosure</b>	Polycarbonate plastic, glass fiber reinforced	Painted magnesium alloy, IP65 rating

## POWER SUPPLY REQUIREMENTS

<b>Supply current — operational</b>	+5 VDC, 500 mA (peak)
<b>Supply current — idle</b>	+5 VDC, 210 mA (typical)

## STANDARDS COMPLIANCE

<b>Interoperability</b>	ANSI-378, ISO 19794-2, ISO/IEC 19784-1, NIST MINEX III Certified	
<b>Device Certifications</b>	CE, FCC, CB, UL	
<b>Environmental</b>	REACH, RoHS, WEEE	
<b>Ingress</b>	IP65 at the platen	IP65
<b>Other</b>	NIST CAVP, Argentina, Australia/New Zealand, Columbia RNEC, DEA EPCS, Mexico, South Africa	
<b>Driver Support</b>	Microsoft WHQL Certified for Windows	

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