

BAYOMETRIC

Lumidigm V310

FINGERPRINT MODULE



PRODUCT DESCRIPTION

The Lumidigm M310 is an OEM grade biometric module capable of verification, authentication and identification applications. The module is one of the most sought after solutions when it comes to infrastructure and information security where conventional passwords fail. The M310 module is a part of the Mercury series from HID global which has been field tested in the toughest of environments including direct sunlight. The reliability in obtaining error free results along with the module's low form factor and compatibility with multiple platforms is what makes it a highly competitive product in its class.

The Lumidigm M310 uses advanced multispectral imaging to scan fingerprint images. This not only obtains surface skin data but also deep tissue data which is handy in detecting fake fingerprints. The module is also equipped with a number of other features and is typically used for 1:1 verification and 1: N identification applications. The module produces 500 DPI resolution images and is compatible with systems working on 32 bit or 64 bit Windows Operating System. The module is available as either RS 232 or USB 2.0 interface variants.

APPLICATIONS

Banking

Healthcare

Citizen ID

KEY FEATURES

Multispectral imaging with liveness detection

Up to four times faster image capture

IP65 protection at the platen for harsh environments

MINEX III certified algorithm

FBI-certified WSQ compression

TECHNICAL SPECIFICATIONS

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 28 mm) ellipse
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
Verification mode (1:1)	Unlimited
Identification mode (1:N)	Up to 1000 users per group, unlimited groups
Finger placement to image	800 ms – 1 sec (typical)
Finger placement to template / score	900 ms – 1.1 sec (typical)
Finger placement to identification	950 ms – 1.1 sec (typical)
Ingress protection at platen	IP65
Temperature	-10 to 60°C
Humidity	0–100% RH condensing
ESD Immunity	IEC 61000-4-2 Level 4+/-15 kV Air
USB 2.0	480 Mbps high-speed

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CONTACT

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Operating systems supported	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	Encrypted video for privacy/playback protection
Overall dimensions	2.68"W x 2.61"D x 2.02"H (6.8 cm x 6.6 cm x 5.1 cm)
Housing	Polycarbonate plastic, glass fiber reinforced; platen area is IP65
Supply current — operational	+5 VDC 300 mA (peak)
Supply current — idle	+5 VDC 100 mA (typical)
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
Interface	High-speed USB 2.0 (480 Mbps)
Memory	64 MB free RAM
Operating system	Supported OS required

ABOUT BAYOMETRIC

Bayometric is a leading global provider of biometric security systems offering core fingerprint identification solutions. Our products and solutions help enterprises, government agencies, custom application developers and system integrators meet their security, identification and access management requirements.

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