

# BAYOMETRIC

## Lumidigm M310

### COMPACT MULTISPECTRAL BIOMETRIC MODULE



#### PRODUCT DESCRIPTION

The Lumidigm M301 is a multispectral fingerprint scanner which is the first installment of the Mercury series of scanners from HID Global. The scanner makes use of multispectral imaging to capture fingerprint data for a number of applications such as enrollment and user authentication. The scanner's advanced skin technology in imaging not only captures data at the surface skin level but also the deep tissue level, which enables it to detect fake/spoof fingers. The device produces 500 DPI resolution images and these can easily be transferred to any host system by virtue of the USB 2.0 interface and plug & play architecture.

The M301 is built for high durability and has been tested in a number of challenging environments for integrity. The scanner is capable of producing high quality images irrespective of ambient lighting conditions and nature of the finger being scanned. The device can be connected with any system working on Windows OS, and features data transfer speeds up to 480 Mbps. The scanner produces reliable and fast results and has a wide scanning surface of 17.4 x 13.9 mm for single finger flat images. The scanner is compatible with a number of SDKs for various applications.

#### APPLICATIONS

Enterprise

Banking

Healthcare

Point of Sale (POS)

#### KEY FEATURES

Patented multispectral imaging technology

Captures both surface and subsurface of a finger

High-performance liveness detection

Top-ranked MINEX III algorithm

Durable, compact and field-proven

Cost-sensitive

#### 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.

#### LINKS



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