

# BAYOMETRIC

## Lumidigm M311

### M-SERIES FINGERPRINT SCANNER



#### PRODUCT DESCRIPTION

Lumidigm M311 is a part of the Mercury series of biometric scanners from HID Global. The scanner uses multispectral imaging in place of other fingerprint scanning techniques to produce high quality 500 DPI resolution images. The scanner can easily be interconnected with host PCs using the USB 2.0 interface for a number of applications. With the unreliability in security provided by conventional passwords becoming a mounting concern, the M311 provides a reliable and systematic solution in its place. One of the major features which highlight this is the ability of the scanner to identify fake fingerprints. The scanner scans both skin surface and deep tissue data to identify fake fingerprints and reject them using multispectral imaging.

The compatibility of the scanner with any host systems running on 32 bit/ 64 bit variants of the Windows OS is an added advantage. The device is compatible with a number of SDKs and can be used for applications that involve verification, identification, authentication and enrolling. The scanner is also tested under challenging circumstances and produces standard images even when put to work under harsh operating environments.

#### TARGET APPLICATIONS

Enrollment and verification  
Smartphones and tablets  
Standalone applications

#### KEY FEATURES

FBI PIV FAP 30 certified  
No membranes to replace  
Operates in direct sunlight  
Excellent with dry and dirty fingers  
Durable and shock resistant  
Requires no cleaning  
Compatible with Windows 7, Windows 8.X, Windows Server, Windows Mobile 6.5, Linux, Android 4.0 (or higher)

#### TECHNICAL SPECIFICATIONS

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
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 10,000 users per group, unlimited groups
Finger placement to image	350 ms (typical)
Finger placement to template / score	400-600 ms (typical)
Finger placement to identification	500-700 ms — 1,000 users

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Resolution: 500 ppi

Image capture area (Platen size):  
20 x 25 mm (0.8" x 1.0")

Image size: 400 x 500 pixels

Sensor type: Hybrid (optical and capacitive)

Device size: Desktop reader: 66 x 75 x 48 mm (2.6" x 3.0" x 1.9") & OEM module without circuit board: 47 x 39 x 28 mm (1.8" x 1.5" x 1.1")

#### CONTACT

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#### LINKS



[www.linkedin.com/company/bayometric](http://www.linkedin.com/company/bayometric)



[www.facebook.com/bayometric/](http://www.facebook.com/bayometric/)



[www.twitter.com/bayometric/](http://www.twitter.com/bayometric/)

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
USB 2.0	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 (Intel 32-bit and 64-bit)
Encryption	Encrypted video for privacy/playback protection
Supply current — operational	+5 VDC 225 mA (peak)
Supply current — idle	+5 VDC 100 mA (typical)
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.