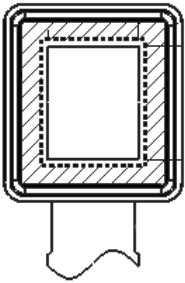
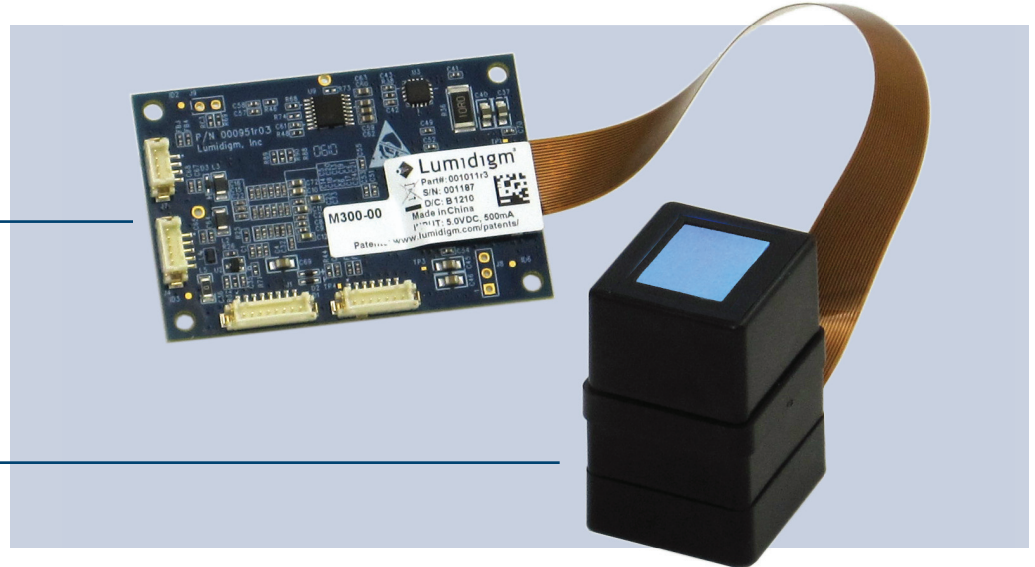


# Lumidigm Mercury Series M300 OEM Module



## It's what you expect from Lumidigm

Mercury OEM fingerprint sensor modules extend the power and reach of our award-winning multispectral imaging technology to a whole new set of markets, applications, channel partners and users. Like all other multispectral imaging products from Lumidigm, Mercury is designed for those who need a biometric technology or solution that **simply works** where other competitive alternatives often fail.

The core benefit of Lumidigm's multispectral technology is that it virtually eliminates common real world problems experienced by conventional fingerprint sensors. **Fast, accurate and reliable**, the Mercury OEM delivers world-class biometrics performance with highly integrated and advanced architecture. With Mercury, we once again demonstrate that Lumidigm products are able to deliver superior and unmatched biometrics performance without compromise.

Mercury's design enables multispectral imaging products to be **easily integrated** into a growing set of devices and systems. Mercury OEM sensor modules support multiple modes of operation. This functionality is a core component of the product's design and is built-in to the Mercury product architecture. This means **more flexibility** and a variety of choices for integrators.

The Mercury OEM package is complete with an **extensive SDK** that simplifies integration. Mercury devices can be configured to deliver **high-quality images** or ANSI-378 standard templates. Mercury can also be designed into either verification (1:1) or Identification (1:N) applications. All of this enhanced functionality is built into every OEM module. It is a standard, no-cost capability that is packaged into this offering.

The Mercury OEM. It's what you expect from Lumidigm.



# Lumidigm M300 Specifications



Lumidigm®

## Imaging system

Technology	Patented Lumidigm optical multispectral imaging
Image resolution	500 dpi
Image bit depth	8bit, 256 grayscale
Imaging area	17.4 x 13.9 mm (rectangular)

## Biometric functions

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 template as an input
Template storage	Up to 50,000 in verification mode
Real finger detection	Integrated

## Biometric performance

Image capture	150 ms (typical)
Finger detection to image	0.8 sec. (typical)
Finger placement to image	1.0 sec. (typical)
Finger placement to template or score	1.5 sec. (typical)
Finger placement to Identification	2.0 sec (typical) — 1,000 users

## Environmental

*Biometric performance is maintained throughout the operating ranges specified.*

Operating with enclosure	
Temperature	-20 to 70°C
Humidity	0–100% RH condensing
Operating without enclosure	
Temperature	0 to 60°C
Humidity	0–95% RH non-condensing
Storage	
Temperature	-20 to 85°C
Humidity	0–95% RH non-condensing (at 40° C)
ESD Immunity	IEC 61000-4-2 Level 4+/-15 kV Air
Ingress protection from dust, water	IP65 (platen area only)

## Interfaces

USB 2.0	480 Mbps high-speed
RS-232	115.2 Kbps

## Form factor

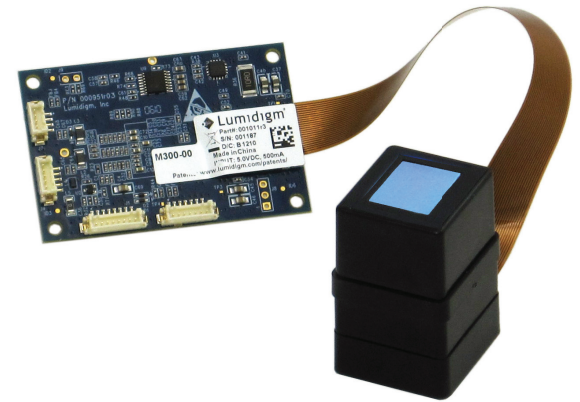
Platen	Precision ground glass, uncoated, 17.0 x 13.5 mm (rectangular), IP65
Sensor head module	27 x 30 x 41 mm
Electronic control unit	40 x 60 x 9 mm

## Power supply requirements

Supply current — operational	+5 VDC 400mA (peak)
Supply current — Idle	+5 VDC 200mA (typical)

## Standards compliance

Interoperability	MINEX, ANSI 378, ISO 19794-2:2005, ANSI 381, ISO 19794-4:2005, NFIQ compliant
Device certifications	CE, CSA
Operating systems	Source code is available for any processor / operating system combination. Specific Microsoft® Windows CE and Linux code is also available.



## About Lumidigm

Lumidigm is a biometrics company dedicated to enabling convenient, secure, and reliable identification and verification. With commercial partners, venture funding, and government sponsors, Lumidigm provides identity management for healthcare, civil ID, point-of-sale, physical and logical access, and portable electronic device applications.

## Questions?

Visit [www.lumidigm.com](http://www.lumidigm.com)  
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M301 Desktop Reader

V302 Desktop Reader

V300 OEM Module