

Lumidigm Mercury M301



Hassle-free standalone authentication

The Lumidigm Mercury M301 is a fully integrated desktop solution that brings the Lumidigm Advantage™ to applications where computing resources are limited.

The Mercury solution supports several modes of operation. This self-contained intelligent device performs all biometric functions and processing inside the sensor and provides onboard template storage for both search and verification functions. It performs image processing, image output, feature extraction, biometric template generation, 1:1 matching or verification, 1:N matching or identification, and a pass/fail result.

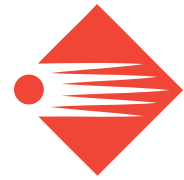
Device installation and operation are straightforward, making the Mercury solution easy to use. Because of the highly integrated design and advanced architecture, Mercury data capture is incredibly accurate. In most cases a simple tap of the finger is sufficient to securely authenticate a user and ensure biometric precision.

What is the Lumidigm Advantage? Quite simply, our patented multispectral imaging approach is the best there is. Lumidigm technology was developed specifically to address the shortcomings that have plagued the biometrics industry. Let Lumidigm exceed your expectations of what biometrics can do to increase both security and user convenience.

The Mercury M301 solution. Hassle-free standalone authentication from Lumidigm.



Lumidigm M301 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 placement to image | 1.3 sec. (typical) |
| Finger placement to template or score | 1.8 sec. (typical) |
| Finger placement to identification | 2.0 sec (typical) — 1,000 users. |

Environmental

| | |
|-------------------------|-----------------------------------|
| Temperature (operating) | 0 to 60°C |
| Humidity | 0–95% RH non-condensing |
| ESD Immunity | IEC 61000-4-2 Level 4+/-15 kV Air |

Interface

| | |
|---------|---------------------|
| USB 2.0 | 480 Mbps high-speed |
|---------|---------------------|

Power supply requirements

| | |
|------------------------------|------------------------|
| Supply current — operational | +5 VDC 400mA (peak) |
| Supply current — idle | +5 VDC 200mA (typical) |

Standards compliance

| | |
|-----------------------|---|
| Interoperability | ANSI 378, ISO 19794-2:2005, ANSI 381, ISO 19794-4:2005, NFIQ compliant, MINEX-certified algorithm |
| Device certifications | CE, CSA |
| Operating systems | Microsoft® Windows CE / XP / 7; Linux |



About Lumidigm

Lumidigm develops and commercializes personal biometric identification products and services that offer customers performance, security and convenience — without compromise. A Lumidigm solution is available for mission-critical and challenging applications in healthcare, banking, transportation, civil ID, time & attendance, physical and logical access, and mobile transactions.

Questions?

Visit www.lumidigm.com
Email sales@lumidigm.com
Call +1 (505) 272 7057
 801 University Blvd SE, Ste 302
 Albuquerque, NM 87106, USA

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