

BAYOMETRIC

Lumidigm V300

FINGERPRINT MODULE



PRODUCT DESCRIPTION

The Lumidigm V300 is a multispectral biometric module which is used in a number of applications that require flawless imaging and reliable results. The V300 is a module capable of being integrated into a number of host devices owing to the availability of serial and parallel interfaces. The module can produce different output forms such as fingerprint images, templates or matching scores depending upon the applications it is intended to be for. What sets the Venus Series of biometric products apart from the Mercury Series is its ability to overcome Failure to Acquire (FTA) and Failure to Enroll (FTE) issues which are a predominant concern in other biometric modules.

The V300 module uses multispectral imaging in place of conventional fingerprint scanning techniques. This scans the skin surface and deep tissue of the target finger making it easy to produce accurate images even for fingers which have unclear ridges, markings, genetic defects or scars. The internal fingerprint obtained not only helps in obtaining high quality images, but also help in fake fingerprint detection which is an issue of mounting concern in biometric security systems.

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)	Available (V30x-30 only)
Latent detection	Included
Latent protection	Included
Verification mode (1:1)	Up to 1000
Identification mode (1:N)	Up to 400 (V30x-30 only)
Finger placement to image	1.3 sec. (typical)
Finger placement to template / score	2.0 sec. (typical)
Finger placement to identification	2.1 sec. (typical, V30x-30 only)
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 Ai
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 Android
Encryption	n/a
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	ANSI 378, ISO 19794-2:2005, ANSI 381, ISO 19794-4:2005, NFIQ compliant, MINEX-certified algorithm
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	USB 1.1
Memory	n/a
Operating system	n/a

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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