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Lumidigm® M-Series Fingerprint Modules

Brand: Smartjac Industries Inc
Product Code: SMAH100118



Short Description
Award-winning multispectral imaging technology. Extend the Power of Lumidigm Multispectral Imaging Technology.

Description
Overview
Lumidigm® M-Series Fingerprint Sensor Modules
Lumidigm M-Series fingerprint sensor modules extend the power and reach of our award-winning multispectral imaging technology to a whole new set of industries, applications, channel partners and users. Like all other multispectral imaging products from Lumidigm, the M-Series fingerprint sensor modules are designed for those who need a biometric authentication or solution that simply works where other competitive alternatives often fail.

The core benefit of Lumidigm's multispectral imaging technology is that it virtually eliminates common real world problems experienced by conventional fingerprint sensors. Fast, accurate and reliable, the M-Series fingerprint sensor modules deliver best-in-class biometrics authentication.

The M-Series design allows easy integration into a growing set of devices and systems. Available as either a self-contained intelligent device or as a Windows® PC-based authentication solution, the M-series fingerprint sensor modules support multiple modes

of operation. This means more flexibility and a variety of choices for integrators.

The M-Series fingerprint sensor module package is complete with an extensive SDK that simplifies integration. M-Series devices can be configured to deliver high-quality images or ANSI-378 standard templates. The modules can also be designed into either verification (1:1) or identification (1:N) applications. It is a standard, no-cost capability that is packaged into the M-Series fingerprint sensor modules.

Technology Advantage

Patented **multispectral** imaging is the most secure, convenient and reliable fingerprint authentication technology on the market today. Only available in Lumidigm® products and solutions, multispectral imaging can enroll and verify everyone, every time, in any environmental condition.

Lumidigm® multispectral imaging is a sophisticated technology specifically developed to overcome the fingerprint capture problems found with conventional imaging systems. This more-effective technology is based on the use of multiple spectrums of light and advanced optical techniques to extract unique fingerprint characteristics from both the surface and subsurface of the skin. That subsurface capability is important because the fingerprint ridges seen on the surface of the finger have their foundation beneath the surface of the skin, in the capillary beds and other sub-dermal structures.

This enhanced data capture mitigates traditional system vulnerabilities to common environmental and demographic conditions:

Dry conditions — Dry fingertips are common, caused by anything from climate conditions or natural skin characteristics to frequent hand-washing or air travel. Multispectral imaging technology captures high-quality images even when fingers are dry.

Wet conditions — Moisture is a fairly common real world condition. Some environments are naturally damp, due to climate (London) or setting (a spa). Some people have moist hands. Multispectral imaging technology captures high-quality images even in wet conditions.

Diverse demographics — Biometrics work because people are unique — and yet diverse user populations are difficult for many fingerprint biometrics systems to handle. Multispectral imaging can authenticate anyone, no matter what their age, ethnicity, job or lifestyle.

Rugged conditions — People don’t have time to wash and lotion their hands when they

use a fingerprint sensor. And yet other technologies require just that to meet performance requirements. Multispectral sensors take people as they are — at the office, construction site, or agricultural field.

With multispectral imaging, these problems are solved. In major large-scale programs, pilot tests, field trials and evaluations, Lumidigm® multispectral imaging technology has proven to be the best technology in the biometrics industry.