M2-PalmAccess™
Access Control System

Award-Winning Biometric Authentication Technology for Secure Access

M2-PalmAccess™ Vein Recognition Technology Offers Robust Biometric Authentication to Enhance Physical Access Security

➢ Contactless palm vein authentication is fast, hygienic and non-invasive

➢ No biometric footprint or residual trace left behind after authentication

➢ Advanced biometric authentication algorithm produces a high level of accuracy with low FAR (false accept rate) and FRR (false reject rate)

➢ Fast and easy enrollment for all users with virtually no registration failure

➢ Robust biometric controller can be mounted remotely in secure area

➢ Encrypted template repository

➢ Compact design with flexible integration for easy installation into existing access control systems via Wiegand or IP interfaces

The M2SYS M2-PalmAccess™ Access Control System is a palm vein based robust authentication system that utilizes industry-leading vascular pattern biometric technology. This award-winning innovation offers secure physical and logical access control to customers in healthcare, financial services, government, retail, education and other industries with a highly reliable, contactless biometric authentication solution that is non-intrusive and easy to use.

The M2-PalmAccess™ sensor uses near-infrared light to capture a person's palm vein pattern, generating a unique biometric template that is matched against pre-registered user palm vein patterns. The palm vein device can only recognize the pattern if the blood is actively flowing within the individual's veins, which means that forgery is virtually impossible. This advanced, vascular pattern recognition technology not only provides highly reliable authentication with low false accept and reject rates, but also generates fast and easy enrollment.

Compared to fingerprint and other biometric authentication technologies, the M2-PalmAccess™ Access Control system is a hygienic, contactless solution that is highly applicable to all users including children. M2-PalmAccess™ authentication is not affected by the presence of hand lotions, chemicals, abrasions, skin conditions or effects of cold environments. Enterprises will benefit from the increased security for access control and users will enjoy the fast, simple, and non-intrusive access to secure areas, schools, daycare centers and medical facilities.

The M2-PalmAccess™ Physical Access Control technology offers advanced biometric authentication that is easy to integrate into existing hardware infrastructure with flexible software modules for integration. The biometric engine generates encrypted vein templates in an SQL database. The M2-PalmAccess™ Access Control Server software can be easily integrated to existing access control systems.

Access Control Specifications	
Authentication Support	PAC controller can support up to 20,000 templates locally PAC Server Software can support unlimited templates
Interface I/O	Two USB 2.0, CAT-5, Wiegand IN / OUT, LED cable
Ethernet	10/100Base-T, SMCS PHY
Wiegand Inputs / Outputs	Supports 26 bit, Corporate 1000™ Wiegand input for secondary authentication device
Palm focal length (from sensor surface)	2 inches from the surface of the sensor (+/- a half inch)
Reliability	MTBF (mean time between failure): 830,000 hours for sensors only. 250,000 hours for controller only
LED's	4 LED's (Ready, Busy, Access granted, Access denied)
Supply voltage	12V to 24V external supply, PoE (if available) PoE 802.3af (12.5W)
Power consumption	6W
Operating temperature	0°C to 50°C
Outer dimensions (DxWxH)	Controller: 106 x 95 x 28 mm. Handguide: 180 x 111 x 30 mm
Supported OS	Windows XP
Safety / Agency Approvals	UL 60950-1, CE (EN 55022, EN 55024), FCC (Class A, Part 15)

Architecture