DEVELOPED AND MANUFACTURED IN EUROPE

BIOVEIN

BIOMETRIC FINGER VEIN READER

01 BIOVEIN

Eden Innovations, the R&D company of the Almas Industries Group, is a recognised specialist in access control.

Supported by the state-of-the-art expertise of our research teams, we have developed a range of biometric readers reputed for their user-friendliness, performance, robustness and aesthetic design. BIOVEIN represents a major leap forward, opening up a whole new world of biometric applications for all kinds of businesses, whether small companies or large enterprises.

BIOVEIN is the first reader to exploit biometric finger vein recognition based on Hitachi's Finger Vein Technology.

This revolutionary technology allies individual liberty, absolute security and a high degree of user comfort.

02 ABSOLUTE SECURITY

Security requirements in companies are constantly evolving and reinforced protection of people and information must now complement ever-increasing demands for freedom of movement. BIOVEIN offers an innovative alternative to the codes, keys, badges and passwords of the past.

FAIL-PROOF IDENTITY CONTROL

Biometric access control is based on the recognition of a person's physical and biological characteristics. Because these are unique to each individual, they guarantee unfailing security. Request for access no longer comes from a support that can be lost, forgotten or stolen (code, key, badge) but from a human being.

FORGERY PROOF RECOGNITION

BIOVEIN reads the vein pattern of a finger. This pattern is hidden under the skin and leaves no traces. As such it is impossible to forge, contrarily to physical fingerprint recognition technologies.

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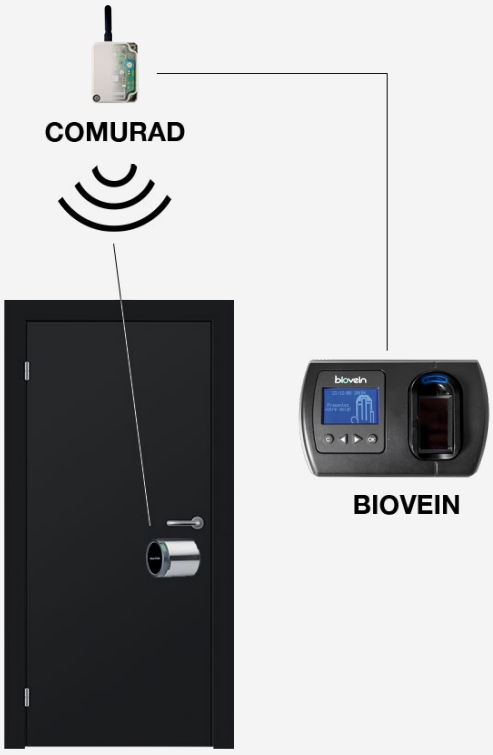
03 RECONCILING SECURITY WITH EASE OF USE

» **STAND ALONE FUNCTIONING MODE-**
BIOVEIN enables to control access rights to protected zones via an LCD monitor integrated into its casing. Coupled with the optional remote-control system, BIOVEIN will continue to secure access even if the reader is deteriorated. An enhanced feature is the integrated and secure connection with remote-controlled electronics via an RS485 Bus connection and the interface with third-party systems via Wiegand or Clock & Data. It is the ideal solution to provide maximum doorway security while minimizing investment costs.

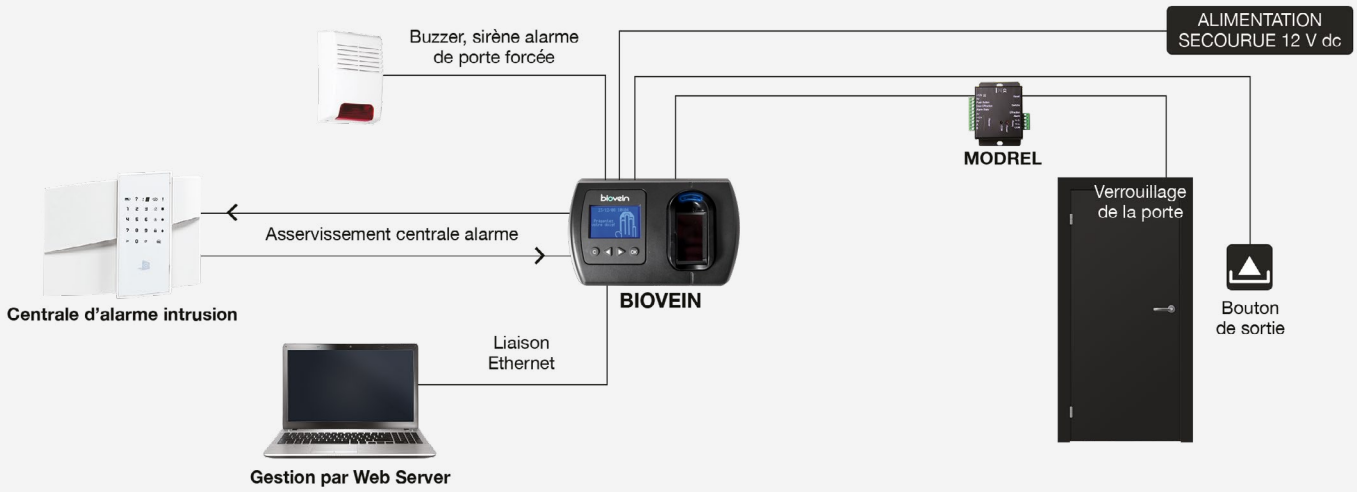
» **CENTRALISED CONTROL MODE**
BIOVEIN seamlessly integrates with centralised access-control networks, piloted by our software solution.

» **READER MODE**
BIOVEIN can be integrated into an overall access management system by linking it to a controller via a Wiegand, Clock & Data or RS485 BUS connection.



04 STAND ALONE FUNCTIONING

» **OPTIONS**
MODREL485 remote opening control



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05 DETAILED TECHNICAL FEATURES

Functional characteristics

Perfomance	Up to 1 000 users
	Up to 10 000 events saved on memory
Ease of use	Quick User enrolment
	Easy and intuitive programming (via touch-screen keyboard, controllers and Eden software or Java applet)
Efficiency	1 free-access time zone
	64 specific user time zones
	32 time zone settinds for public holidays
	Start and end dates/times of access rights
	Summer time/winter time switchover
	Advanced user data management features
	Controller commanded via alarm finger

Peripherals

MODREL Remote opening control module for stand-alone mode	
BIOVEIN PROTECT Weatherproof protection cover	

Technical features

Input/Output Management	Binary Input modules : 3
	CRT relay outputs : 1
	Transistor outputs : 2
BIOVEIN Utilisation	Temperature range : +10° to 50°C Indoor installation only
	Dimensions : 175 x 105 x 67 mm
Specifications	Supply voltage : 12-14 VDC
	Max. energy conumption : 500mA@12VDC
Communication Protocol	RS485 BUS connection
	Ethernet
	Wiegand and Clock & Data
Security	Self-shielded, anti-infraction and anti-tear off housing
Updates	Flash memory with update software utility
Option	MODREL 485 stand-alone remote opening controller

06 BENEFITS

» Optimal security: tamper-proof and traceless technology

» Various utilisation modes: stand alone, with reader, with controller

» A biometric reader with the ability to interact with an alarm system

» SDK for seamless integration of third party systems

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