BioOnCard

Keep your biometric data **completely secure**

ZKTeco's **BioOnCard** Technology is the next-generation biometric palm-face-fingerprint authentication solution that provides a seamless access control experience with ZKTeco's **SpeedFace-V5L RFID**, **ProFace X [P]** and **ZPad Plus(4G)**.

BioOnCard technology delivers a double verification process of advanced palm/face/fingerprint recognition algorithms with computer vision, and RFID technologies to improve security performance and meet a broad range of mainstream access control applications for commercial use. Its high-speed performance allows recognition in a few seconds after transferring the template to the card..

The solution can easily be integrated with most of ZKTeco's turnstiles or speed gates, supports software ZKBio Access IVS/ZKBio CVSecurity, and is available for third-party integration with PUSH protocol.

ENHANCED USER DATA PRIVACY

Biometric data is stored inside the card, not on a server or external device.

DOUBLE VERIFICATION HIGHER SECURITY

If card gets lost, no one else can use it. Prevent unauthorised access.

MATCH-ON-CARD TECHNOLOGY

Enables users to not only carry their biometrics with them but also match it on the card.

How it works?

Users can register palm or face by scanning a BioOnCard with a compatible ZKTeco device.

First, the user must select the preferred biometric method to undergo verification (palm, face or fingerprint). The device then takes a biometric template of the palm, face or fingerprint and requests swiping the BioOnCard to transfer the biometric template into the card, discarding storing any personal data in its internal database.

At the moment of authentication, the user will first scan the card to verify identity. The device will then request the user's real-time biometric face, palm or fingerprint for double verification, confirming that the data stored on the card corresponds to the cardholder.

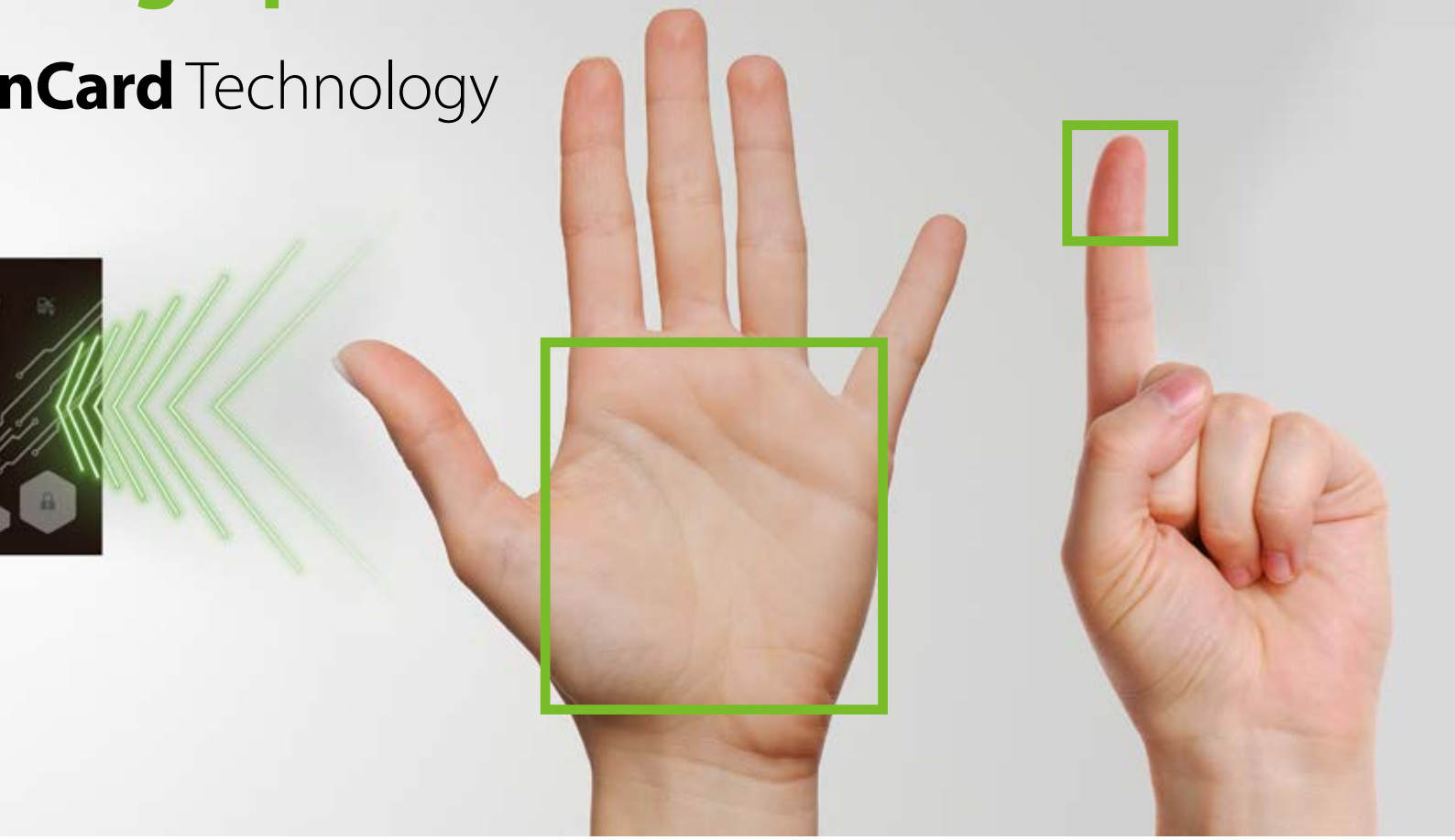
1 **SELECT**
FACE CARD

Complies with GDPR requirements

This solution is GDPR compliant, meaning greater privacy for the cardholder and the ability to authenticate without connection to a backend database. Within ZKTeco's access control and time attendance devices, algorithms are used to convert image data points into biometric templates in the form of a digital code. The biometric palm, face or fringerprint images are never stored within a device. This is how the templates or biometric patterns are safely encrypted, thanks to our algorithms.

Fingerprint ?

nCard Technology



SELECT 2
PALM CARD

SELECT 3
FP CARD

Compatible Devices

Model	SpeedFace-V5L RFID	ProFace X [P]	ZPad Plus(4G)
Display	5-inch Touch Screen	8-inch Touch Screen	7-inch Capacitive Touch Screen
Card Capacity	10,000	50,000	10,000
RFID	13,56MHz	13,56MHz	13,56MHz
Transaction Capacity	200,000	1,000,000 (Optional 2,000,000)	1,000,000
Opration System	Linux	Linux	Android 7.1
Standard Functions	ADMS, T9 Input, DST, Camera, 9-digit User ID, Access Levels, Groups, Holidays, Anti-passback, Record Query, Tamper Switch Alarm, Multiple Verification Methods	Access Levels, Groups, Holidays, DST, Duress Mode (Password), Anti-Passback, Record Query, Custom Wallpaper & Screen Saver, Tamper Switch Alarm, IP68 & IK04 / 0.3s Hight Speed Face Verification / Live Face detection / Communication Https Encrypted Optiona / Event Snapshot	Time & Attendance Management App, Multiple Events Management
Hardware	900MHz Dual Core CPU, Memory 1G RAM / 8G Flash, 2MP WDR Low Light Camera, Adjustable Light Brightness LED	900MHz Dual Core Customized Computer Vision CPU / 512MB RAM / 8G Flash / 8" Hight light (400lux) IPS Touch LCD / 13,56MHz Reader / 13.56MHz IC (Optional) / 2MP WDR Low Light Camera / Adjustable Light brightness LED / Hi-Fi Voice / Receiver sensitivity Microphone / Distance Detection Sensor / Reset Button and Tamper Switch	Memory 1GB RAM/ 8GB ROM / 166BROM / MSM8917 Quad-core A53(64bit) 1.4GHz CPU
Communication	TCP/IP, WiFi (Optional), Wiegand input / output, RS485	TCP/IP, Wiegand Input, Output, Wi-Fi (Optional), RS485/232	Ethernet, Wi-Fi, USB-host, 4G
Access Control Interface	3rd Party Electric Lock, Door Sensor, Exit Button, Alarm output, Auxiliary Input		Relay, Exit Button
Facial Recognition Speed	≤1s		N/A
FP Recognition Speed	≤1s	N/A	≤1s
Palm Recognition Speed	≤1s		N/A
Power Supply	12V 3A		
Dimension	91.93 * 202.93 * 21.5 (mm) (W*H*D)	143*227*26.1 (mm) (W*H*D)	240*130*45 (mm) (W*H*D)
Supported Software	ZKBio Access IVS / ZKBio CVSecurity / 3rd Party software (Push)	ZKBio Access IVS / ZKBio CVSecurity / 3rd Party software (Push)	GoTime Cloud, ZKBio Time/ 3rd Party software (Push)

WATCH VIDEO

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