

ZK-SPEEDFACE-V4L-PRO

ZKTeco Speedface-V4L stand alone Access Control device face and Fingerprint recognition with WiFi

Product Overview

ZKTeco Speedface-V4L stand alone Access Control device face and Fingerprint recognition with WiFi, 3000 face capacity, 3000 Fingerprint capacity, 3000 card capacity, 4" 480x800 TFT Colour Touch LED screen, Binocular camera @ 2MP, Linux Operation system, Microphone, In-glass Fingerprint Sensor



Specifications

Overview Summary:

The ZKTeco SpeedFace V4L Pro is a high-performance biometric access control terminal designed for secure and efficient entry management. With advanced facial recognition, fingerprint scanning, and optional RFID and palm authentication, it delivers fast and accurate identification in under a second. Its 4-inch colour touchscreen, built-in camera, and WiFi connectivity make it ideal for modern workplaces requiring reliable, contactless access control.

Built for South African businesses, this device offers robust anti-spoofing technology and supports multiple authentication methods to enhance security across offices, factories, and commercial sites. Its durable, IP65-rated design ensures dependable performance in various environments. Upgrade your access control system today-buy now or shop now to secure your premises with cutting-edge biometric technology.

Performance tier:High-performance

Uses:office access control, factory security, staff attendance tracking, building entry management, secure facility access

Overview:

ZKTeco SpeedFace-V4L Pro Facial Recognition Access Control Terminal

The ZKTeco SpeedFace-V4L Pro is a standalone biometric access control device engineered for fast, secure, and contactless identification. Combining facial recognition with fingerprint authentication and optional palm and RFID verification, it delivers a flexible solution for modern access environments. With integrated WiFi, advanced anti-spoofing algorithms, and support for mask detection, the unit is well suited for offices, industrial sites, and high-traffic public facilities. Its compact form factor and responsive 4 inch touch display simplify deployment while maintaining enterprise-grade performance.

Description:

The SpeedFace-V4L Pro provides a multi-layered biometric authentication platform designed to improve security and operational efficiency. It integrates facial recognition, fingerprint scanning, and optional palm and card verification into a single device, reducing reliance on physical credentials. The built-in 2MP binocular camera ensures accurate recognition even in dynamic environments, while anti-spoofing technology mitigates risks from photos or video attacks. With support for video intercom, mobile app integration, and dynamic QR access via ZKBio platforms, it enables seamless communication and remote management. Its IP65-rated housing, fast verification speeds, and flexible connectivity options make it a practical choice for both indoor and semi-outdoor installations.

Features:

Advanced Biometric Access and Security

The device leverages intelligent facial recognition algorithms alongside computer vision technology to deliver rapid and accurate identification. Recognition speeds are optimized for real-time access control, with facial verification typically completed in under 0.35 seconds. The system supports multiple authentication combinations, allowing administrators to configure access rules based on security requirements.

Anti-spoofing functionality enhances system integrity by detecting fraudulent attempts using images or recorded media. This ensures consistent reliability in environments where identity verification is critical.

Integrated Video Intercom and Smart Connectivity

A notable capability of the SpeedFace-V4L Pro is its built-in video intercom functionality. Equipped with a microphone and speaker, it supports two-way communication directly from the terminal.

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Two deployment approaches are available:

- integration with ZKBio Zlink or ZKBio Zexus mobile applications for video communication
- connection to indoor monitors using SIP protocol for structured intercom systems

The system also supports dynamic QR code access through ZKBio Zexus, extending its usability to visitor management and time attendance scenarios.

Display, Hardware, and System Architecture

The device is built around a Linux-based platform with efficient hardware resources to ensure stable operation. Its 4 inch TFT color touch screen provides a clear and responsive user interface, while the in-glass fingerprint sensor enhances durability and accuracy.

Key hardware elements include:

- 4 inch TFT color touch LED display with 480 x 800 resolution
- 2MP binocular camera for precise facial recognition
- dual core processor at 1GHz with 1GB RAM and 8GB storage
- integrated microphone and speaker for communication
- in-glass fingerprint sensor for improved reliability

Authentication Options and Capacity

The ZK-SPEEDFACE-V4L-PRO supports multiple authentication methods, allowing flexible deployment across different security scenarios.

Supported verification methods:

- facial recognition
- fingerprint authentication
- palm recognition optional
- RFID card optional
- password via virtual keypad

Capacity and performance highlights:

- up to 6000 users standard with optional expansion to 10000
- facial template capacity up to 6000
- fingerprint capacity up to 6000 depending on model
- palm template capacity up to 3000 optional
- transaction storage up to 200000 records

Performance and Accuracy Metrics

The system is engineered for both speed and precision, ensuring minimal delays during peak access periods.

Key performance indicators:

- facial recognition speed under 0.35 seconds
- fingerprint recognition under 0.5 seconds
- palm recognition under 0.2 seconds
- facial recognition distance from 30 cm to 170 cm
- extremely low false acceptance and rejection rates for all biometric modes

Connectivity and Integration Options

The terminal supports a broad range of communication interfaces, enabling seamless integration into existing infrastructure.

Connectivity options include:

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- TCP IP networking
- WiFi supporting 2.4 GHz and 5 GHz bands
- Wiegand input and output
- RS485 communication
- USB Type A for data transfer

Additional interfaces:

- electric lock control
- door sensor and exit button
- alarm output
- auxiliary input and wired doorbell

Software and Platform Compatibility

The device integrates with both on-premise and cloud-based software platforms, offering scalability for different deployment sizes.

Supported systems:

- ZKBio CVAccess and ZKBio Time for local management
- ZKBio Zlink with web and mobile access
- ZKBio Zexus for advanced access control and QR functionality

Environmental Durability and Installation

Designed for reliability in varied conditions, the unit features a robust enclosure and flexible mounting options.

Environmental and physical details:

- operating temperature from -5 degrees celsius to 45 degrees celsius
- humidity tolerance from 10 percent to 90 percent non condensing
- IP65 rating for water and dust resistance
- compact dimensions of 183 x 88 x 20.5 mm
- wall mount installation compatible with standard gang boxes

Model Variants and Flexibility

The SpeedFace-V4L Pro series includes multiple variants to accommodate different authentication preferences:

- standard model with face and fingerprint
- QR model supporting dynamic QR code authentication
- RFID model for card-based access

This flexibility allows the ZK-SPEEDFACE-V4L-PRO to adapt to a wide range of operational requirements without compromising performance or security.

Specifications:

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Specifications	
Product Code	ZK-SPEEDFACE-V4L-PRO

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Model	SpeedFace-V4L Pro
	SpeedFace-V4L Pro-QR
	SpeedFace-V4L Pro-RFID
Display	4"@ TFT Color Touch LED Screen (480*800)
Camera	Binocular Camera @ 2MP
Operation System	Linux
Hardware	CPU: Dual Core@1GHz
	RAM: 1GB , ROM: 8GB
	Speaker: 8 ohm@1 W
	Microphone: *1 (Sensitivity: -32dB / Omni-directional / Signal-to-Noise Ratio: 58dB / Impedance: 2.2kohm)
	Fingerprint Sensor: In-Glass Fingerprint
Authentication Method	SpeedFace-V4L Pro: Face / Fingerprint / Palm (Optional) / Card (Optional) / Password (Virtual Keypad)
	SpeedFace-V4L Pro-QR: Face / Palm (Optional) / Scramble QR Code / Card (Optional) / Password (Virtual Keypad)
	SpeedFace-V4L Pro-RFID: Face / Palm (Optional) / Card / Password (Virtual Keypad)
User Capacity	SpeedFace-V4L Pro: 6,000 (1:N) (Standard) / 10,000 (1:N) (Optional)
	SpeedFace-V4L Pro-QR: 6,000 (1:N) (Standard) / 10,000 (1:N) (Optional)
	SpeedFace-V4L Pro-RFID: 6,000 (1:N) (Standard) / 10,000 (1:N) (Optional)
Face Template Capacity	SpeedFace-V4L Pro: 6,000 (1:N) (Standard)
	SpeedFace-V4L Pro-QR: 6,000 (1:N) (Standard)
	SpeedFace-V4L Pro-RFID: 6,000 (1:N) (Standard)
Fingerprint Template Capacity	SpeedFace-V4L Pro: 6,000 (1:N) (Standard)
	SpeedFace-V4L Pro-QR: /
	SpeedFace-V4L Pro-RFID: /
Palm Template Capacity	SpeedFace-V4L Pro: 3,000 (1:N) (Optional)
	SpeedFace-V4L Pro-QR: 3,000 (1:N) (Optional)
	SpeedFace-V4L Pro-RFID: 3,000 (1:N) (Optional)
Card Capacity	SpeedFace-V4L Pro: 6,000 (1:N) (Standard) / 10,000 (1:N) (Optional)
	SpeedFace-V4L Pro-QR: 6,000 (1:N) (Standard) / 10,000 (1:N) (Optional)
	SpeedFace-V4L Pro-RFID: 6,000 (1:N) (Standard) / 10,000 (1:N) (Optional)
Transaction Capacity	SpeedFace-V4L Pro: 200,000 (1:N)
	SpeedFace-V4L Pro-QR: 200,000 (1:N)
	SpeedFace-V4L Pro-RFID: 200,000 (1:N)
Max. User Password Length	8 Digits

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Biometric Verification Speed	less than 0.35 second (Facial Recognition)
	less than 0.5 second (Fingerprint Recognition)
	less than 0.2 second (Palm Recognition)
Touchless Biometric Recognition Distance	30cm to 170cm @Face
	20cm to 30cm @Palm
False Acceptance Rate (FAR) %	SpeedFace-V4L Pro: <=0.01% (Facial Recognition) , <=0.0001% (Fingerprint) , <=0.01% (Palm)
	SpeedFace-V4L Pro-QR: <=0.01% (Facial Recognition) , <=0.01% (Palm)
	SpeedFace-V4L Pro-RFID: <=0.01% (Facial Recognition) , <=0.01% (Palm)
False Rejection Rate (FRR) %	SpeedFace-V4L Pro: <=0.02% (Facial Recognition) , 0.01% (Fingerprint) , <= 0.17% (Palm)
	SpeedFace-V4L Pro-QR: <=0.02% (Facial Recognition) , <= 0.17% (Palm)
	SpeedFace-V4L Pro-RFID: <=0.02% (Facial Recognition) , <= 0.17% (Palm)
Biometric Algorithm	SpeedFace-V4L Pro: ZKFace V3.6 & ZKFinger V13.0/V10.0 & ZKPalmVein V20.1
	SpeedFace-V4L Pro-QR: ZKFace V3.6 & ZKPalmVein V20.1
	SpeedFace-V4L Pro-RFID: ZKFace V3.6 & ZKPalmVein V20.1
Card Type	ID Card@125 kHz (Optional)
	IC Card@13.56 MHz (Optional)
	Optional Multi-Tech Module:
	Module1: ID & IC & DESFire EV1 / EV2 & Felica , (125 kHz & 13.56 MHz Dual Frequency)
	Module 2: HID Prox
QR Code	SpeedFace-V4L Pro: /
	SpeedFace-V4L Pro-QR: Dynamic QR codes on the ZKBio Zexus
	SpeedFace-V4L Pro-RFID: /
Communication	TCP/IP*1
	Wi-Fi (IEEE802.1a/b/g/n/ac) @ 2.4 GHz / 5G GHz
	Wiegand (Input & Output)*1
	RS485: ZKTeco RS485*1
	USB: Type A (USB Drive Only)*1
	Aux Inputs *1, Electric Lock*1, Door Sensor*1, Exit Button*1, Alarm output*1, Wired Doorbell*1
Standard Functions	ADMS, DST, 14-digit User ID, T9 Keyboard (Input), Photo Capture, Event Photo Capture, Record Query, Tamper Switch Alarm, Automatic Status Switch, Multiple Verification Methods, Anti-Passback, Wired Doorbell, Schedule Bell, HTTPs / SSH Backend Access, AC Push and TA Push Protocol Switch
Optional Functions	Wi-Fi, WorkCode, Video Intercom, Wireless Doorbell, DM10

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Video Intercom	Video Intercom (ZKTeco Private Protocol via TCP/IP)
	Support Devices:
	Standalone Terminal: SpeedFace-V4L Pro Series(Only ZAM230 Platform)
	Indoor Monitor: VT07-B01, VT07-B01-W
	Video Intercom (Standard SIP Protocol)
	Support Devices:
	Standalone Terminal: SpeedFace-V4L Pro Series(Only ZAM230 Platform)
	Indoor Monitor: VT07-B22L, VT07-B26L-W
	Software: ZKBio CVAccess, BioTalk Pro
	Mobile App: ZKBio Zlink, ZKBio Zexus
Power Supply	DC 12V 3A (Optional)
Operating Temperature	-5degreesc to 45degreesc
Operating Humidity	10% to 90% RH (Non-condensing)
Dimensions	183 mm * 88 mm * 20.5 mm (L*W*H)
Gross Weight	0.503 kg
Net Weight	0.453 Kg
Supported Software	On-Premise Software: ZKBio CVAccess (AC PUSH) & ZKBio Time (TA PUSH)
	Cloud-based Software: ZKBio Zlink (Supports Web Portal & Mobile App)
Installation	Wall-mount (Compatible with Asian Gang-box / Single Gang-Box)
Ingress Protection Rating	IP65 (waterproof and dustproof)
Certifications	ISO14001, ISO9001, CE, FCC, RoHS

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/ZK-SPEEDFACE-V4L-PRO-ZKTeco-Speedface-V4L-stand-alone-Buy-p-335799.php>

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