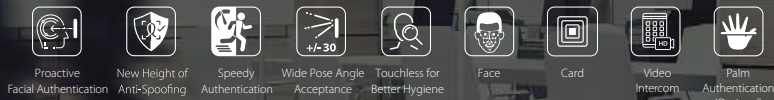




## SpeedFace-V5L Series

Linux-Based Hybrid-Biometric Access Control & Time and Attendance Terminal with Full Spectrum of Authentication Options



Compatible with



Compatible with



SpeedFace V5L

SpeedFace-V5L-RFID

SpeedFace-V5L[QR]

The SpeedFace-V5L Series employs intelligent engineering facial authentication algorithms and cutting-edge computer vision technology. It supports different versions of SpeedFace-V5L with large capacity and speedy authentication to satisfy your needs. SpeedFace-V5L[QR] comes with a QR code module to support Dynamic QR code via ZKBio CVAccess Mobile APP, while the SpeedFace-V5L-RFID standard ID card verification function.

**SpeedFace-V5L Series** uses touchless authentication technology and can identify individuals even when wearing masks, making it a hygienic option. Additionally, it has an advanced anti-spoofing algorithm that can detect fake photos and videos.

**SpeedFace-V5L Series** features a video intercom function with SIP protocol (Version 2.0) for compatible with video intercom indoor unit and supports ONVIF protocol to connect to ONVIF NVR for Video surveillance and recording. Moreover, it is compatible with ZKBio Zlink Mobile APP & ZKBio Zlink-Web when switching to BEST protocol.

## Features

- Visible light facial authentication technology
- Full spectrum of authentication methods: support Facial authentication / Fingerprint authentication / Scramble QR Code / Palm authentication (Optional) / Card / Password (Virtual Keypad)
- Enlarged Capacity: 10,000 (facial) / 10,000 (fingerprint) / 3,000 (palm) / 10,000 (RFID card) / 200,000 transactions
- HD video door phone via SIP protocol with ZKTeco SIP Video intercom indoor monitor and supports ONVIF Protocol
- Available card modules: 125 kHz ID card / 13.56MHz IC card / 125 kHz ID card & 13.56MHz IC Multi-tech card module(optional)
- Mask detection; facial authentication available with masked individual
- Support AC push and convert to TA push

\* **Note:** Facial authentication for masked individuals will increase FAR.

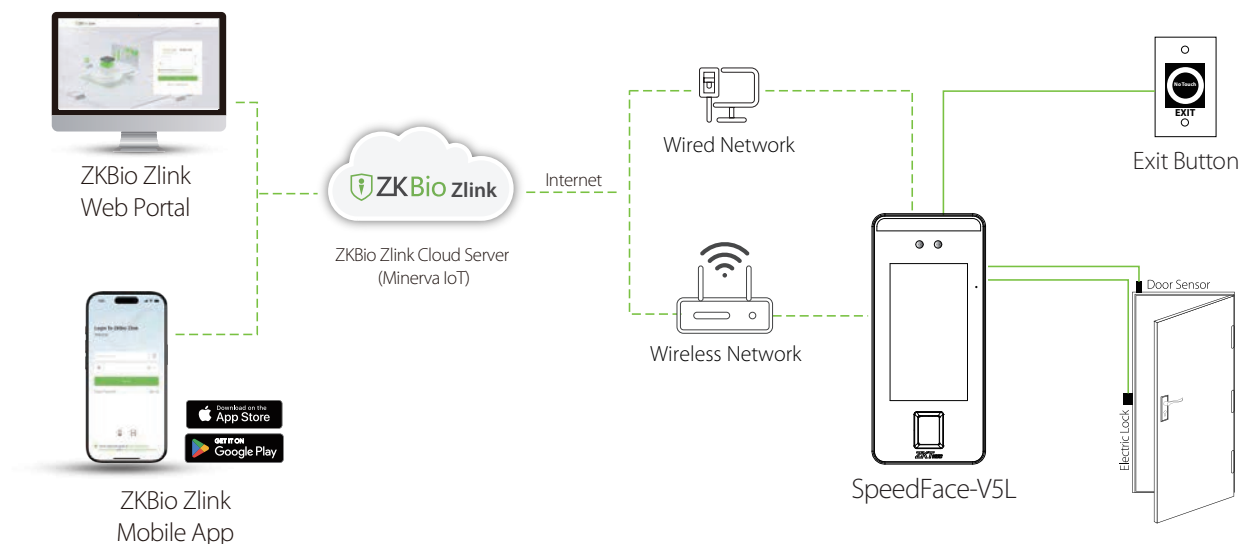
**Note:** Palm authentication is for indoor use only.

## Specifications

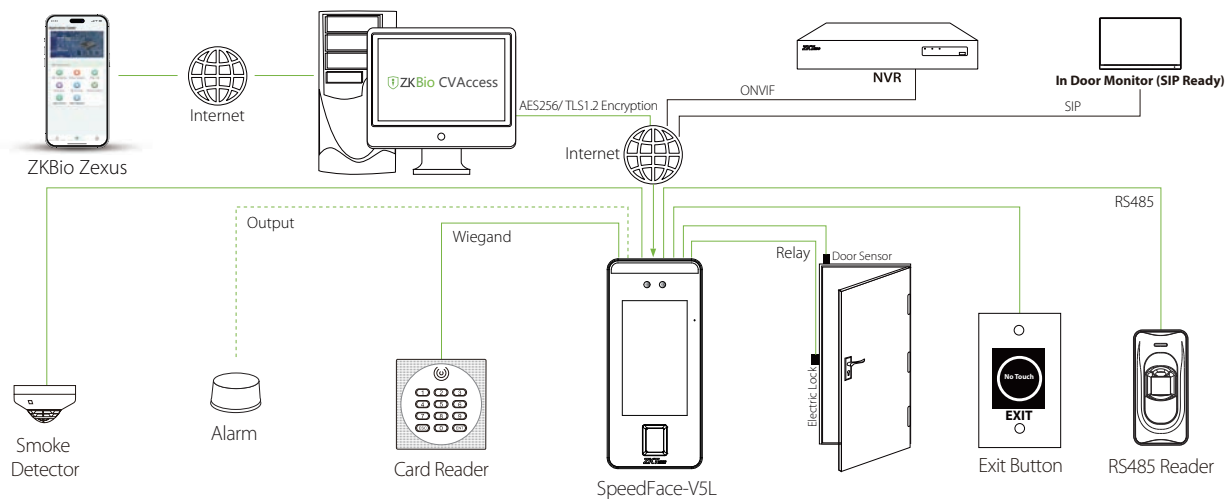
| Model                                          | SpeedFace-V5L                                                                                                                                                                                                                                                                                               | SpeedFace-V5L-RFID                                                                                                                                                                                                                                                                                    | SpeedFace-V5L[QR]                                                                                                                                               |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order ID                                       | AC01-SP14H-P47                                                                                                                                                                                                                                                                                              | AC01-SP12H-P47                                                                                                                                                                                                                                                                                        | AC01-SP15H-P47                                                                                                                                                  |
| Display                                        | 5"@ ISP Color LCD Screen (720*1280)                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| Camera                                         | Binocular Camera @ 2MP WDR                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| Operation System                               | Linux                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| Hardware                                       | CPU: Quad Core A55 @1.2GHz<br>RAM: 512MB (Optional Palm: 1GB);<br>ROM: 8GB<br>Supplement Light: Yes<br>Virtual Keypad: 16 Keys<br>Fingerprint Sensor: Z-ID<br>Casing Color: Metallic silver                                                                                                                 | CPU: Quad Core A55 @1.2GHz<br>RAM: 512MB (Optional Palm: 1GB);<br>ROM: 8GB<br>Supplement Light: Yes<br>Virtual Keypad: 16 Keys<br>Casing Color: Metallic silver                                                                                                                                       | CPU: Quad Core A55 @1.2GHz<br>RAM: 512MB (Optional Palm: 1GB);<br>ROM: 8GB<br>Supplement Light: Yes<br>Virtual Keypad: 16 Keys<br>Casing Color: Metallic silver |
| Authentication Method                          | Face / Fingerprint / Palm (Optional) /<br>Card / Password (Virtual Keypad)                                                                                                                                                                                                                                  | Face / Palm (Optional) / Card /<br>Password (Virtual Keypad)                                                                                                                                                                                                                                          | Face / Palm (Optional) / Card /<br>Password (Virtual Keypad)                                                                                                    |
| Fingerprint Template Capacity                  | 10,000 (1:N)                                                                                                                                                                                                                                                                                                | /                                                                                                                                                                                                                                                                                                     | /                                                                                                                                                               |
| Face Template Capacity                         | 10,000 (1:N)                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| Palm Template Capacity                         | 3,000 (1:N) (Optional, only for 1GB RAM Mainboard)                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| Card Capacity                                  | 10,000 (1:N)                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| User Capacity                                  | 10,000 (1:N)                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| Transaction Capacity                           | 200,000 (1:N)                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| Max. User Password Length                      | 8 Digits                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| Biometric Authentication Speed                 | less than 0.5 sec (Fingerprint)<br>less than 0.35 sec (Facial<br>authentication)<br>less than 0.35 Sec (Palm)                                                                                                                                                                                               | less than 0.35 sec (Facial<br>authentication)<br>less than 0.35 Sec (Palm)                                                                                                                                                                                                                            | less than 0.35 sec (Facial<br>authentication)<br>less than 0.35 Sec (Palm)                                                                                      |
| Touchless Biometric<br>Authentication Distance | 30cm to 170cm (Facial authentication)<br>15cm to 40cm (Palm authentication)                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| False Acceptance Rate (FAR) %                  | ≤0.01% (Facial authentication)<br>≤0.0001% (Fingerprint)<br>≤ 0.01% (Palm)                                                                                                                                                                                                                                  | ≤0.01% (Facial authentication)<br>≤ 0.01% (Palm)                                                                                                                                                                                                                                                      |                                                                                                                                                                 |
| False Rejection Rate (FRR) %                   | ≤0.02% (Facial authentication)<br>≤ 0.01% (Fingerprint)<br>≤ 0.17% (Palm)                                                                                                                                                                                                                                   | ≤0.02% (Facial authentication)<br>≤ 0.17% (Palm)                                                                                                                                                                                                                                                      |                                                                                                                                                                 |
| Biometric Algorithm                            | ZKFace V3.6<br>ZKFingerprint V13.0 (Standard) / V10.0<br>(Optional)<br>ZKPalmVein V20.1                                                                                                                                                                                                                     | ZKFace V3.6<br>ZKPalmVein V20.1                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |
| Card Type                                      | ID Card@125kHz (Optional)<br>IC Card@13.56 MHz (Optional)<br><br>Optional Multi-Tech Module:<br>Module1: ID & IC & DESFire EV1 / EV2<br>& Felica (125 kHz & 13.56 MHz Dual<br>Frequency)<br>Module 2: ID & IC & DESFire EV1/EV2<br>& FeliCa & HID Prox & HID iClass (125<br>kHz & 13.56 MHz Dual Frequency) | ID Card@125kHz (Standard)<br>IC Card@13.56 MHz (Optional)<br><br>Optional Multi-Tech Module:<br>Module1: ID & IC & DESFire EV1 / EV2 & Felica (125 kHz & 13.56 MHz<br>Dual Frequency)<br>Module 2: ID & IC & DESFire EV1/EV2 & FeliCa & HID Prox & HID iClass (125 kHz &<br>13.56 MHz Dual Frequency) |                                                                                                                                                                 |
| QR Code                                        | Dynamic QR codes on the ZKBio CVAccess mobile application<br>(Optional) (Via Face Camera)                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                       | Dynamic QR codes on the<br>ZKBio CVAccess mobile application<br>(Standard) (Via QR Module)                                                                      |

|                          |                                                                                                                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Communication            | TCP/IP*1<br>Wi-Fi (IEEE802.11b/g/n/a/ac/ax) @ 2.4 GHz / 5 GHz (Optional)<br>Wiegand (Input & Output)*1<br>RS485: ZKTeco RS485*1*<br>Aux Inputs *1, Aux Outputs *1, Electric Lock*1, Door Sensor*1, Exit Button*1, Alarm*1                                                                     |
| Standard Functions       | ADMS, DST, Photo Capture, Event Photo Capture, Up to 14-digit User ID, Access Levels, Groups, Holidays, Anti-Passback, Record Query, Tamper Switch Alarm, Multiple Verification Methods, T9 Keyboard (Input), AC Push and TA Push Protocol Switch, HTTPs / SSH Backend Access, Mask Detection |
| Optional Functions       | Video Door Phone: SIP Client (Version2.0),<br>ONVIF (Compatible with Profile S, Profile T, Profile G, Profile C, Profile Q & Profile A), Wi-Fi, Webserver                                                                                                                                     |
| Video Intercom           | Video Intercom(ZKTeco Private Protocol via TCP/IP)<br>Support Devices:<br>Standalone Terminal: SpeedFace-V5L(Only ZAM230 Platform)<br>Indoor Monitor: VT07-B01, VT07-B01-W                                                                                                                    |
|                          | Video Intercom (Standard SIP Protocol)<br>Support Devices:<br>Standalone Terminal: SpeedFace-V5L(Only ZAM230 Platform)<br>Indoor Monitor: VT07-B22L, VT07-B26L-W<br>Software: ZKBio CVAccess, BioTalk Pro<br>Mobile App: ZKBio Zlink, ZKBio Zexus                                             |
| Access Control Interface | RS485 (DM10 Controller 1 Door Expansion / RS485 Card Reader / Biometric Reader)                                                                                                                                                                                                               |
| Power Supply             | DC 12V 3A                                                                                                                                                                                                                                                                                     |
| Operating Temperature    | -10°C to 45°C (14°F to 113°F)                                                                                                                                                                                                                                                                 |
| Operating Humidity       | 10% to 90% RH (Non-condensing)                                                                                                                                                                                                                                                                |
| Dimensions               | 202.93mm * 91.93mm * 21.5mm (L * W * H)                                                                                                                                                                                                                                                       |
| Gross Weight             | 1.3 Kg                                                                                                                                                                                                                                                                                        |
| Net Weight               | 0.6 Kg                                                                                                                                                                                                                                                                                        |
| Supported Software       | On-Premise Software: ZKBio CVAccess (AC PUSH) & ZKBio Time (TA PUSH) Cloud-based<br>Software: BioTime Cloud, ZKBio Zlink (Supports Web Portal & Mobile App) Wall-mount                                                                                                                        |
| Installation             | (Compatible with Asian Gang-box / Single Gang-Box)                                                                                                                                                                                                                                            |
| Certifications           | ISO14001, ISO9001, CE, FCC                                                                                                                                                                                                                                                                    |

## Configuration

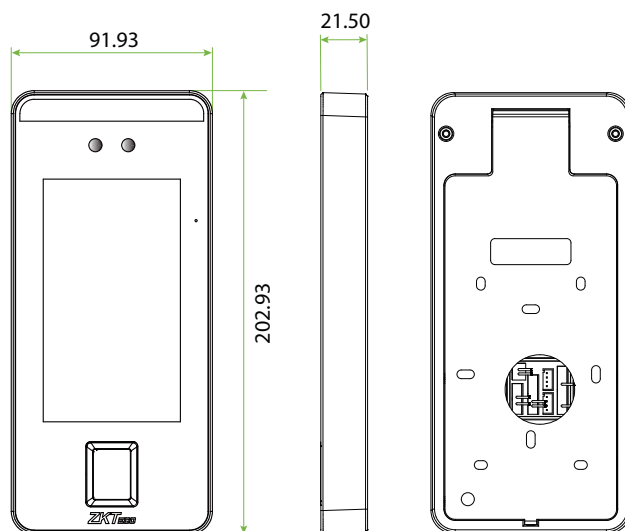


**BEST Protocol**



## PUSH Protocol

## Dimensions (mm)



## SpeedFace-V5L

