SpeedFace-V4L[TI]

Face & Palm (Customized) Verification and Thermal Imaging Temperature Detection Terminal

0.1s Rapid Temperature Detection

Up to 120cm Measurement Distance (30-120cm)

Touchless for Better Hygiene

Temperature Detection

Masked Face

Compatible with
ZKBio CVAccess

SpeedFace-V4L[TI] is a fully upgraded version of the SpeedFace-V4L Visible Light facial recognition terminal. The device is equipped with smart facial recognition algorithms and thermal-imaging features with the latest Computer Vision technology. It rapidly recognizes and verifies both facial and palm features thus ensuring all-the-round security.

SpeedFace-V4L[TI] adopts touchless recognition technology and market trending functions such as temperature detection and masked individual identification to eliminate hygiene concerns effectively. The device also consists of an eventual anti-spoofing algorithm for facial recognition against almost all types of fake photos and videos attack. The salient feature is that the 3-in-1 palm recognition (Palm Shape, Palm Print, and Palm Vein) is performed within 0.35 sec per hand.

The device with temperature and mask detection will be the ideal solution to reduce the spread of germs and prevent infections rapidly at each access point of any premises and public areas such as hospitals, factories, schools, commercial buildings, and stations. The device ensures fast and accurate body temperature measurement and masked individual identification during facial and palm verification.

✳ NOTE: Palm recognition function is customized for customers.

Features

- Visible Light Facial Recognition
- More hygienic and secure in terms of personal health by using touchless biometric authentication, temperature detection, and masked individual identification
- Thermal Imaging Temperature Detection, 0.1s rapid detection, measurement distance of 30cm to 120cm
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack and 3D mask attack
- Multiple Verification Methods: Face / Palm (Customized) / Card / Password / Dynamic QR Code (Optional)
- Video Intercom with ZKView App (Optional)

Special Functions

- Mask detection
- Body temperature detection
- Temperature Measurement Distance: 30cm to 120cm (0.98ft to 3.94ft)
- Temperature Measurement Accuracy: ±0.3℃ (±0.54°F), tested in a distance of 80cm (2.63ft) under 25℃ (77° F) environment
- Temperature Measurement Range: 20℃ to 50℃ (68°F to 122°F)

* Facial verification for masked individuals will increase FAR. Palm verification for masked individuals is recommended.
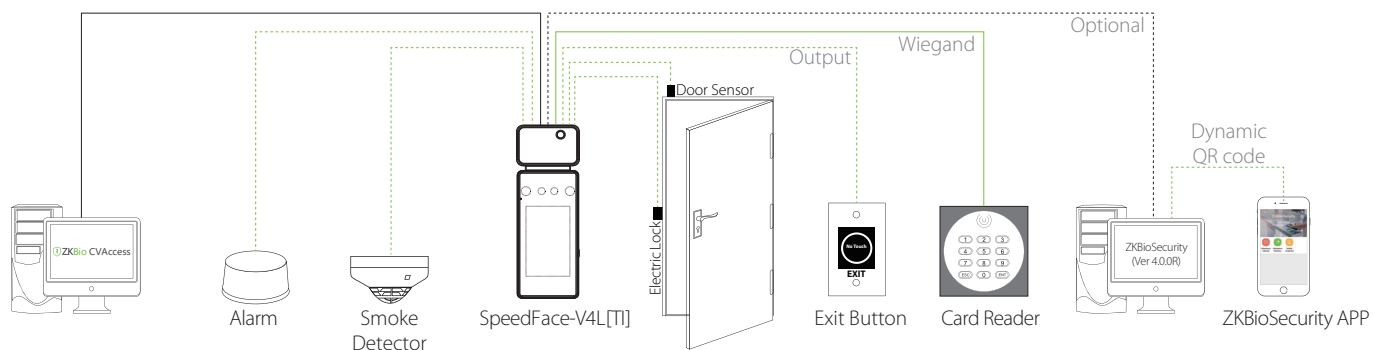* Temperature measurement data is for reference only, not for medical use.
* SpeedFace-V4L[TI] is available for indoor environments without wind or direct sunlight.
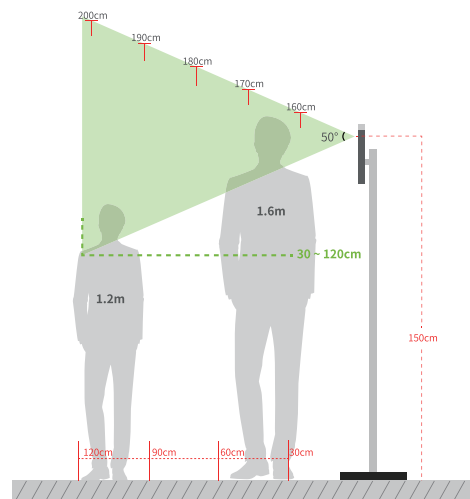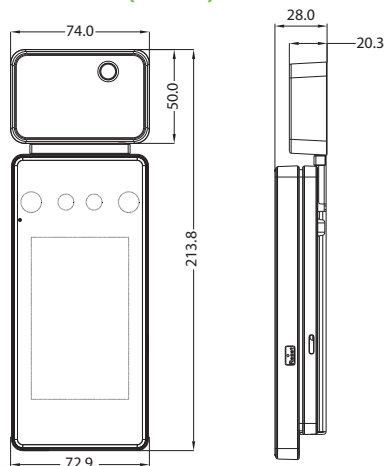
Specifications

Display	4-inch Touch Screen
Face Capacity	800
Palm Capacity	800(Customized)
Transaction	150,000
Operation System	Linux
Standard Function	ID Card, ADMS, T9 Input, DST, Camera, 9-digit User ID, Access Levels, Groups, Holidays, Anti-passback, Record Query, Tamper Switch Alarm, Multiple Verification Methods,
Hardware	900MHz Dual Core CPU, Memory 512MB RAM / 512MB Flash; 2MP Binocular Camera; Adjustable Light Brightness LED
Communication	TCP/IP, Wi-Fi (Optional), Wiegand Input/Output, RS485*
Access Control Interface	3rd-Party Electric Lock, Door Sensor, Exit Button, Alarm output, Auxiliary Input
Optional Function	13.56MHz IC Card, HID Card, Felica Card, Video Intercom, Dynamic QR Code
Facial Recognition Speed	≤1s
Biometrics Algorithm	ZKFace V5.8 & ZKPalm V12.0 (Customized)
AC Adapter	12V 3A
Operating Humidity	10% to 90%
Operating Temperature	16℃ to 35℃ (60.8°F to 95.0°F)
Dimensions (W*H*D)	72.9 *213.8* 28.0 (mm)
Supported Software	ZKBio CVAccess / ZKBioSecurity(Optional) for Dynamic QR Code

* Note: RS485 is for RS485 readers.

Configuration

Dimensions (mm)

Recommended Installation Height: 150cm
Temperature Measurement Distance: 30cm to 120cm