

# ProFace X [TI]

## Face & Palm Verification and Thermal Imaging Temperature Detection Terminal



0.1s High Speed  
Temperature Detection



Up to 120cm  
Measurement Distance



Touchless for  
Better Hygiene



Temperature  
Detection



Masked Face

# ZK BioSecurity



ProFace X [TI] is a fully upgraded version of the ProFace product line, which is designed to deal with all kinds of scenarios. Powered by the ZKTeco-customized CPU for running the intellectualized engineering facial recognition algorithm and the latest computer vision technology, ProFace X [TI] supports both facial and palm verification with large capacity and rapid recognition speed, boosting the security performance in all aspects.

ProFace X [TI] also helps eliminate hygiene concerns; not only because of the contactless recognition technology it is equipped with, but also because of the new functions namely body temperature detection and masked individual identification.

The facial recognition capability has reached a new height in the biometrics technology industry with a maximum of 50,000 facial templates, recognition speed of less than 0.3 sec per face, and ultimate anti-spoofing ability against almost all types of fake photos and videos attack.

In addition, the 3-in-1 palm recognition (Palm Shape, Palm Print and Palm Vein) is performed in 0.35 sec per hand; the palm data acquired will be compared with a maximum of 5,000 palm templates.

As mentioned above, ProFace X [TI] can assist in reducing the risk of infection and germs spreading during the recent global public health issue as well. The enables fast and accurate body temperature measurement and masked individual identification during facial and palm verification at all access points, especially in hospitals, factories, schools, commercial buildings, airports, stations, and other public areas.

## Features

- Ultra-large capacity of facial templates for 1:N verification: 30,000 (standard); max. 50,000 (optional)
- Huge capacity of palm templates; 1:N - 5,000 palm templates
- Anti-spoofing algorithm against print attack (laser, color and B/W photos), videos attack, and 3D mask attack
- Intelligent energy-saving design; precisely evaluation of the distance (up to 2.5m (8.2ft)) between the user and the device by a microwave detector before waking up the recognition terminal
- 2MP starlight CMOS sensor camera with WDR function
- 8" touch screen with 400 lux, which offers high visibility under strong and direct light
- Wide range of working temperature (16°C ~ 35°C; 60.8°F ~ 95°F)
- 0.1s High Speed Temperature Detection, measurement distance of 30 – 120cm
- Temperature Measurement Accuracy:  $\pm 0.3^{\circ}\text{C}$  ( $\pm 0.6^{\circ}\text{F}$ ) with the distance of 80cm and 25°C environment by the laboratory tested;
- Mask detection; facial verification available with masks

\* 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. ProFace X [TI] is available for indoor environments without wind or direct sunlight.

# Specifications (G: GL Exclusive Feature)

## Capacity

<span style="color: green;">G</span> Faces	30,000 (1:N)
	50,000 (Optional)
Palm	5,000 (1:N)
Users	50,000
<span style="color: green;">G</span> Transactions	1,000,000
	2,000,000(Optional)
User Photos	10,000
Event Photos	10,000

## Compatibility

Security Relay Box  
Wiegand / RS485 / RS232 Slave Reader  
with FP / Barcode / QR-code  
ZKBioSecurity and ZKBioAccess Software

## Hardware

- G 900MHz Dual Core Customized computer vision CPU
- G 512MB RAM / 8G Flash
- 8" High light (400lux) IPS Touch LCD
- G 2MP WDR Low Light Camera
- Adjustable Light brightness LED
- Hi-Fi Voice
- High Sensitivity Microphone
- Distance Detection Sensor
- Reset Button and Tamper Switch

## Access Control Interface

Lock Relay Output  
Alarm Output / Auxiliary Input  
Exit Button / Door Sensor

## Special Functions

- G 0.3s High Speed Facial Verification
- Liveness Detection
- HTTPS Communication Encryption (Optional)
- G Event Snapshot

## Standard Functions:

Access Levels, Groups, Holidays, DST,  
Duress Mode (Password), Anti-Passback,  
Record Query, Tamper Switch Alarm,  
Custom Wallpaper & Screen Saver

## Preventative Measures

Mask detection  
Body temperature detection  
Temperature Measurement Distance:  
30cm~120cm (0.98ft~3.94ft)  
Temperature Measurement Accuracy:  $\pm 0.3^{\circ}\text{C}$   
Temperature Measurement Range:  $20^{\circ}\text{C}\sim 50^{\circ}\text{C}$   
( $68^{\circ}\text{F}\sim 122^{\circ}\text{F}$ )

## Communication

TCP/IP  
Wiegand Input / Output  
Wi-Fi (Optional)  
RS485 / RS232

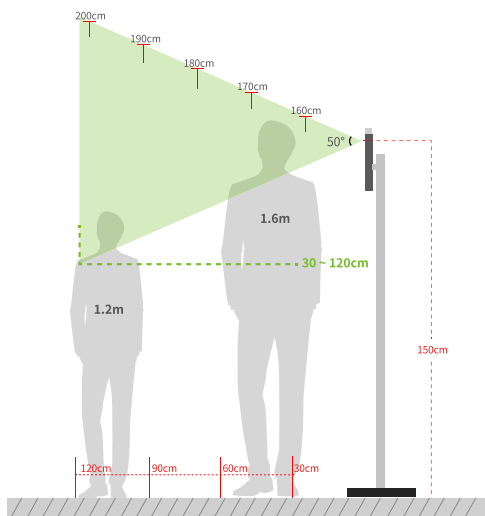
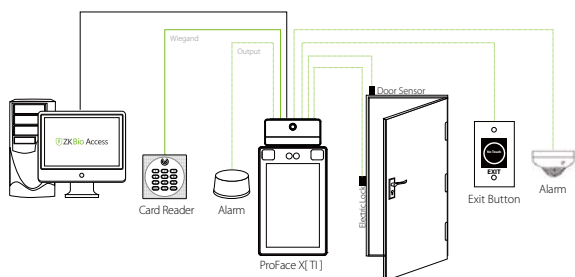
## Additional Info

Face Algorithm: ZKLiveFace5.8  
Palm: FAR  $\leq 0.01\%$ ; FRR  $\leq 1\%$   
Working Temperature:  $16^{\circ}\text{C}\sim 35^{\circ}\text{C}$ ,  
( $60.8^{\circ}\text{F}\sim 95^{\circ}\text{F}$ )  
Working Humidity:  $\leq 93\%$   
Storage Temperature:  $-40^{\circ}\text{C}\sim 65^{\circ}\text{C}$   
( $-40^{\circ}\text{F}\sim 149^{\circ}\text{F}$ )  
Net Weight: 853g  
Dimensions (H\*L\*D): 279\*143\*27mm

## Power

Operating Voltage: 12V DC  
Current Draw:  $< 2,000\text{mA}$

## Configuration



Recommended installation height: 150cm  
Temperature Measurement Distance: 30cm~120cm

## Dimensions (mm)

