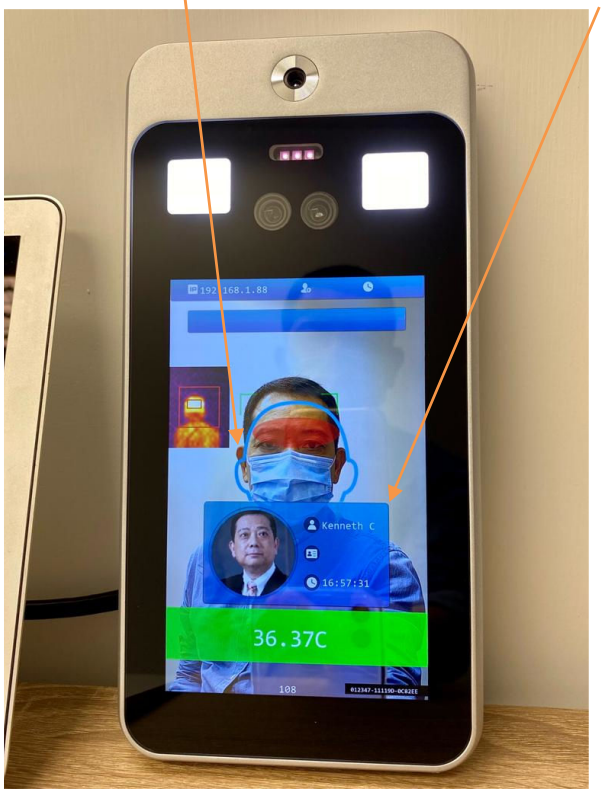
Fi7L-P1 Long Range Integrated Detection Panel

For Automatic Thermal Body Temperature Measuring & Facial Recognition



Objectives

- Measure body temperature at a far range from a maximum distance of 1.2 – 1.5 m.
- Emit alert in case of abnormal body temperature detected
- Process health control and warn against people not wearing the mask
- Process face tracking and accurate facial recognition even under backlit environment
- Wifi enabled for remote set up or data retrieval via network
- The best cost-efficient tool for set up the first initial public health defense in pubic area during epidemic.
- Ideal for operation which needs both access control admission and personal temperature data for future analysis, e.g. school, government, commercial buildings, etc.

Professional Design

High Performance A.I. Chip with Powerful Facial Recognition Algorithm

- Face recognition accuracy 99% or above
- Recognize the face even with mask on
- Make voice alert to wear mask if no mask is detected (optional)
- Stable Linux Operation System

Quick Temperature Detection

- Detection done in less than 80ms

Comprehensive Report

- Access report showing name, time, temperature, successful access and picture comparison (optional)

Expandable Design for More Integrated Access Control Functions

- Link with 3rd party access controllers for more time attendance and event visitor management
- Trigger opening of door / turnstile when integrated with full access control system

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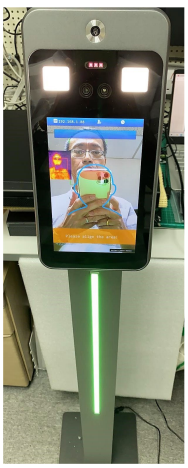
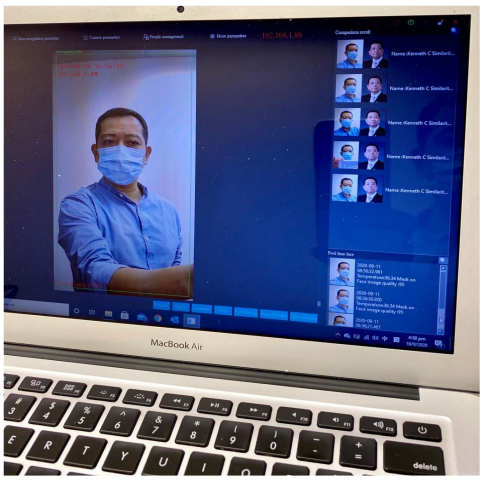
Technical Specifications:	
Model	**Fi7L-P1**
Hardware & Platform	
Processor	28nm processor, equipped 1Tops AI computing capability, support 4-megapixel@30fps
Operating System	Linux
Sensor	High power long range thermal heat map sensing, unique algorithm for temperature compensation based on measuring distance and surrounding temperature
Camera	1/2.8" progressive scanning CMOS
DDR	5GB
Flash	8GB eMMC
Screen Display	7" screen, 1920 x 1080: pixel
Operation Capacity	
Front End Storage	20,000 (with images)
Library Capacity	Support 50,000 images (based on 32G external storage)
Ambient Light	0 - 50,000 Lux with compensation light automatically on in case of insufficient lighting
Verification	
Verification Angle	360° verification angle
Unmasked Face Recognition Rate	> 99.5%; False Recognition Rate < 1%
Verification Time	≤ 80ms
Detection Rate w/o Mark	> 99.5%; False Recognition Rate < 1%
Face Recognition Rate with Mask	> 95%; False Recognition Rate < 1%
Temperature Measuring Distance	Max. 1.2 – 1.5 meter
Face Detection Range	0.5 – 2 meter
Verification Mode	1:1
Authentication Mode	Face / Card (Optional only for Two-Factor Authentication)





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Operational Features	
Offline Operation	Support
Voice Notification	Support
Real Time Clock	Support
WIFI	Enabled
Languages	English / Simplified Chinese / Traditional Chinese / Japanese
Voice Alert	English / Putonghua / Spanish
Access Control Support	Wiegand 26 / 34 / 66 bit for Relay
Interface	
RJ45	x 1 TCP/IP 100M Ethernet interface
Wiegand Output	D0, D1, GND
Wiegand Input	D0, D1, GND, 12V
RS485	x 1
USB	x 1
Relay	X 2
Card Slot	MicroSD, Support 64G but recommend to have best performance mix at 32G
Video Output	X1 MIPI DSI HD video output
Environmental	
Operating Temperature	-30 °C ~ to +70 °C
Operating Humidity	20% to 90%
Power	
Power Supply	DC 12V, ± 25%
Certification	
Rating	CE
Physical	
Dimension	135 (L) x 32 (W) x 270 (H) mm
Weight	2 Kg

Design and specifications are subject to change without notice