

## Introduction

Integrated deep-learning Infrared thermal facial recognition, the LTKFT01 supports infrared temperature measurement, voice alarm, body temperature statistics, abnormal body temperature logging & reporting.

### LTKFT01

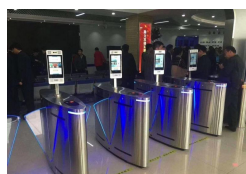


- Built-in non-contact thermal temperature measurement module and biometric system
- Temperature measurement from 35°C to 42°C with  $\pm 0.3^{\circ}\text{C}$  deviation.
- Voice alarm on abnormal body temperature detection
- Built in MEGVII's FACE++, the deep-learning facial recognition technology
- Supports face database of 50,000 pictures, 100ms fast identification
- Supports face recognition, face mask recognition, body temperature measurement
- Excellent environmental adaptability for low light levels and strong backlight, compensation.
- Automated Log of User Temperature & Information
- 1/2.8" 2MP line-by-line scanning image sensor, excellent low illumination
- 8 inch LCD display screen, effective pixels: 1920\*1080 @30fps
- Support 2D, 3D digital noise reduction technology, clean picture, small noise
- Support H.265+ /H.265 / H.264 / MJPEG video compression algorithm, multi-level video quality configuration, coding complexity settings
- Support Linux, with stable and extendable software architecture
- Rich port design with Ethernet port, Wiegand port, relay port
- Power consumption: 5W
- Ultra-thin all-aluminum alloy metal casing with stylish design
- Support installation on Turnstile / Pole and wall Mount

## Application



Commercial Building



Government



Education



Financial

**Specification**

Item	Specification
CPU	ARM Cortex A9
Display Screen	8 inch LCD
Operation System	Linux
<b>Thermal Parameters</b>	
Sensor	Thermal image infrared temperature sensor
Temperature Measurement	Range: 35°C~42°C , Deviation: ±0.3°C
Detect Distance	0.3 ~0.5 (Meters)
<b>Visible Light Parameters</b>	
Lens	Focal length: 1.8mm. Filed angle: 118°
Minimum Illumination	0.005Lux@F1.2 color pattern
Dynamic Range	≥120dB
SNR	≥46dB ( AGC OFF )
Exposure Mode	Program mode (customizable shutter interval), shutter mode (1/5-1/20,000s), support slow shutter
White Balance	Automatic, indoor, outdoor, sodium lamp mode, manual
DNR	DNR,3DNR
Day-night Mode	Fixed color
<b>Image and Compression</b>	
Video Compression	H.265 Main Profile / H.264 High profile / M-JPEG
Max Resolution	1920x1080@30fps
Resolution (Main)	1920x1080, 1280x960, 1280x720, 720x576
Resolution (Secondary)	640x480, 352x288, 320x240, 176x144
Resolution (MJPEG)	1920x1080, 1280x720, Turn off
ECOC Rate	CBR / VBR. Value range: 32Kbps~10Mbps
Audio Compression	G711, PCM
<b>Algorithms</b>	
Face Database	Max 50,000
Recognition Speed	≤300ms
Biometric Recognition	Support
Face Mask Recognition	Support
Abnormal Temperature Alarm	Support ( Voice Alarm )
<b>Hardware Port</b>	
Power Input Port	DC12V
Ethernet Port	1*10/100Base-TX RJ45
Wiegand port	1*Output
Relay Port	1*Output
MIC	Built-in
<b>General</b>	
Operating Temperature	10°C ~ 30°C
Operating Humidity	0%-90% RH (Non-condensing)
Power Consumption	5W
Dimension	215x125x20mm
Weight	< 1kg

**Interface Drawing**

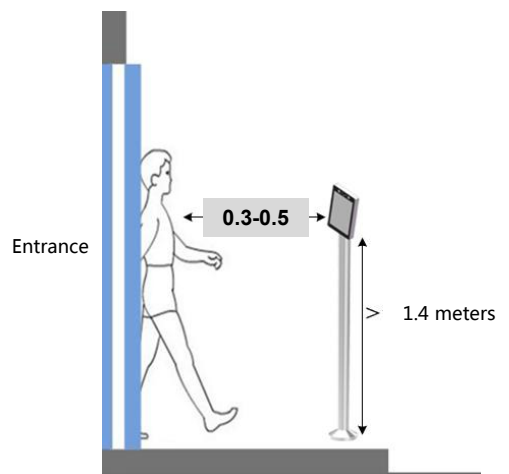


SN	Name	Description
1	Power Input Port	12VDC
2	Ethernet Port	RJ45
3	Relay Port	+ : NO - : COM
4	Wiegand Port	1 : 12VDC 2 : D1 3 : D0 4 : Singnal Ground

**Installation**

1. The equipment should be installed in front of the entrance aiming towards the subjects face.
2. The recommended installation height is 1.4 to 1.6 meters, with approximate angle of 0~15°.
3. For effective temperature measurement, the recommended distance between the equipment and checkpoint is 0.3 to 0.5 meters.
4. Illumination requirements: no backlight, no shadow, no obvious reflected light on the face, and uniform light.

In order to ensure sufficient illumination when capturing a human face, if the subjects face is not bright enough, additional lighting equipment may be required



- Equipment should be installed indoors, make sure there is no wind between equipment and person.
- No direct sunlight, avoid incorrect temperature measurement caused by wind dissipation and direct sunlight.

**Connection**

Connect the equipment to the PC via the network cable. After powered on, open the search tool on the computer to search the equipment's IP address. You can also modify IP address through the tool.



- Default IP Address: 192.168.1.18

**Packing List**

Name	Model	Qty	Remark
Access Control Terminal	LTKFT01	1	8 inch LCD Screen , Non-contact Temperature Measurement , Facial Recognition
Power Adapter	/	1	100-220V / 12V1A
User Manual	/	1	