K-TECH
FIRMIN HOUSE

Mass Fever Screening & Pandemic Control Systems

Binocular Face Recognition and Temperature Detection Machine

MODEL K-T 1.0

2MP Face recognize+temperature detection 8inch smart camera

KEY FEATURES

- Built-in non-contact high-precision thermal imaging module + live detection in one.
- Temperature detection range 35°C~42°C.
- Precision±0.3°C.
- Body temperature and mask detection.
- Built-in FACE ++ deep learning face recognition algorithm; supports a 50,000 face database.
- 100 ms fast identification.
- 8 inch HD LCD display.
- Local alarm output after abnormal temperature.
- Freely configure multiple usage modes.
- Ultra-thin metal shell.
- Can record identification information and temperature information, save traceability.
- Excellent environmental adaptability, including low light and a strong backlight. Supports automatic face exposure.
- Supports Wigan protocol, can directly drive access control and control various gates.
- Rich hardware interface, integrated 100M Ethernet interface, audio interface, Wiegand interface, relay interface, TF card, USB and other interfaces.
- Supports 2D, 3D digital noise reduction.
- Low power consumption, main board power consumption is as low as 5 watts.
- Supports the secondary development of device-side application software, and various software and hardware customisation.

PRODUCT APPEARANCE

TERMINAL INTERFACE FUNCTION DEFINITION

Interface No	Pin	Interface Name	Functional Indicators
1 Power interface)	/	Power Supply	12VDC
2 (network interface)	/		RJ45network interface
3 (Switch interface)	+	Alarm-NO	NO Normally open port
	-	Alarm-NO	COMPublic port
4 (Wiegand interface)	1	VCC	12VDC
	2	Wiegand_D1	Wigan protocol data port D1
	3	Wiegand_D0	Wigan protocol data port D0
	4	GND	Signal ground

PRODUCT SIZE

COMPOSITION STRUCTURE

DESKTOP STYLE

- Base thickness 3.8cm
- With 2 USB interfaces
- Base with adjusting screw
- Cool blue light band
- Environment protection paint for cold rolled sheet

STANDARD STYLE

- Base thickness 120cm
- With 2 USB interfaces
- Base with adjusting screw
- Cool blue light band
- Environment protection paint for cold rolled sheet
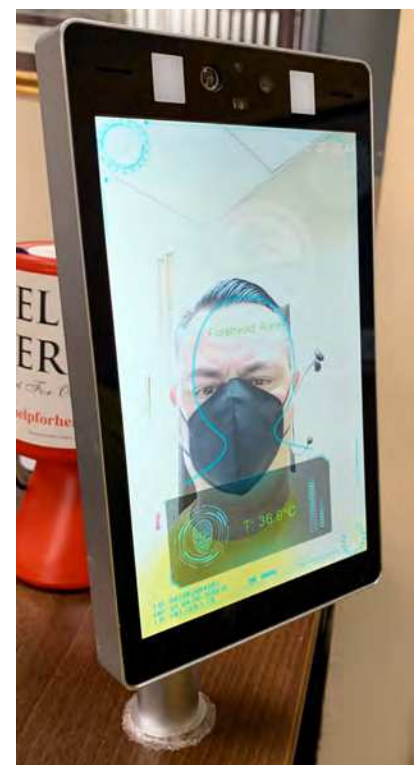
TECHNICAL SPECIFICATIONS

Display	
Display	8 inch LCD
Thermal	Thermal
Sensor	Thermal imaging infrared temperature sensor
Temperature	Range：35~42℃, Precision：±0.3℃
Detect distance	0.4m~0.7m
Visible parameters	
Lens	focal length 1.8mm, Field of View：118°
Mini illum	0.005Lux@F1.2 color mode
Dynamic Range	≥120dB
S/N Ratio	≥46dB（AGC OFF）
Exposure mode	Program mode (customizable shutter interval), shutter mode（1/5 - 1/20,000s）support for slow shutter
White balance	Auto, indoor, outdoor, sodium lamp mode, manual
Digital noise reduction	Support DNR,3DNR
Day and night mode	Fixed color
Image and compression	
Video compression	H.265 Main Profile / H.264 High profile / M-JPEG
Max resolution	1920x1080@30fps
Resolution	
Main stream	1920x1080、1280x960、1280x720、720x576
Substream	640x480、352x288、320x240、176x144
MJPEG	1920x1080、1280x720、closed
Output bit rate	(CBR or VBR), Bitstream setting range：32Kbps~10Mbps
Audio compression	G711, PCM
Character overlay	Support channel name, date and time overlay, adjustable overlay position;
AI	
Number of face bases	50,000 sheets
Recognition speed	≤300ms
Live detection	support
Mask detection	support
Body temperature	support

Interface	
Power	DC12V
Network	1ch10/100BaseT Ethernet RJ45 interface
Wiegand	1ch Wiegand output interface
Switch	1ch relay output
SD card	Up to 128G
MIC	Built-in
Audio	Built-in 2ch audio output
Physical Characteristic	Physical Characteristic
Working Humidity	-10°C ~50°C
Working Humidity	0%-90% RH
Power Consumption	5W
Size	215x125x20mm
Weight	＜1kg

SCOPE OF APPLICATION

AISLES, GATES, GATES AND OTHER CONTROLLED ENTRANCE AREAS

K-TECH
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Technology that allows businesses to
go back to work safely; employees and
customers at the forefront of mind.