

TempAlert Ultimate

AI Temp Measurement System – Accurate Aviation-grade Large Target Surface Infrared Thermal Imager



Key Features:

- Non-contact Optimal Distance: 2 ~ 6m
- Thermal Imager temperature Accurate Error: Only $\pm 0.2^{\circ}\text{C}$
- Single People Detection Speed < 0.1s, Face Recognition speed < 0.1s
- Accurate Face Detection Rate when wearing a mask > 98%
- Over-temperature Alarm, Multiple Reviews High Efficiency, High Accuracy and Wide Range
- Intelligent Identification of each people's effective Temperature Position
- Reduce the Risk of Cross Infection in Crowd , Flexible and Multi-functional Application of Face Recognition
- Fast Device Deployment, One Staff member can Implement & Control
- Face Recognition for Check in, Sign in and Punch in with Face Mask
- Indoor Applications, 7 * 24h Continuity Work

Product Description

Its Infrared Thermal Imager Detector selects Aviation-grade large target surface. Use Visible Image Fusion Technology to convert and match precisely the Visible Light and Infrared Image. The Recognition Algorithm is optimized for the wearing state of the Mask, which can intelligently detect the effective area Temperature.

When a person's temperature is found exceeding 37.2°C . The Automatic Alarm is triggered. Meanwhile the Ultimate version has Face Recognition, which could identify the name of the person in the record database. 'Temp

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'Alert' system is greatly improved on temperature screening efficiency and effectively reducing the risk of cross infection.

It is an Intelligent Security and Epidemic Prevention Monitoring System that integrates Visible Light band, Infrared Band, Temperature Measurement Function, Face Detection Function, Face Recognition Function and Face with Mask Recognition Function.



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Technical Parameters

Thermal Module	
Image Sensor	Uncooled infrared focal plane detector
Max. Resolution	640×480
Pixel Interval	17µm
Response Waveband	8 µm to 14 µm
Frame Rate	60Hz
NETD (Noise Equivalent Temperature Difference)	≤ 50 mk (@25 °C)
Lens (Focal Length)	25mm
Field of View	32°×24° (H × V)
Aperture	F 1.0
Optical Module	
Max. Image Resolution	1920×1080
Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	Color: 0.045 Lux
Lens (Focal Length)	9-22mm(Manual Focusing)
Field of View	16-38°(diagonal)
Signal to Noise Ratio	39 dB
Image Function	

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Bi-spectrum Image Fusion	Dual-Spectrum Fusion to determine Temperature Measurement Position
Picture in Picture	Visible and Infrared Light Images are Displayed Left and Right
Smart Function	
Temperature Measurement	Face Rapture, Smart Forehead Temperature Measurement
Temperature Range	30°C to +45 °C
Temperature Accuracy	±0.2°C
Face Detection with Mask	Rate >98%
Face Recognition	Rate >90%
Video Output	
Main Stream	Visible Light: 50Hz: 25fps (1920 × 1080)
	Visible Light: 60Hz: 30fps (1920 × 1080)
	Thermal: 1280 × 720
Video Compression	H.264/MJPEG
Protocols	Optical: USB 2.0-OTG Thermal: RTSP
Simultaneous Live View	Up to 20
Integration	
Alarm Input	Over-temperature Alarm
Alarm Output	Manually Calibrated
Alarm Action	Audio Alarm(Extensible)
SD Memory Card	Hard Disk Storage

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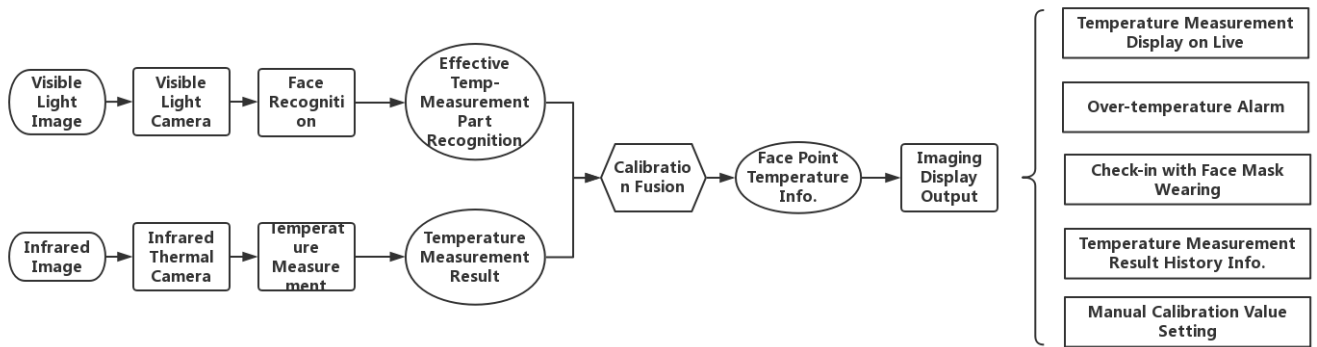
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Client	Temp Alert
General	
Menu language	6 languages
	English, Russian, Arabic, German, Spanish, Simplified Chinese
Power	Optical: 12 VDC \pm 20%
	Thermal: 5VDC USB Power
Power Consumption	Optical: up to 15W
	Thermal: up to 2W
Working Temperature/Humidity	Temperature: 0 °C to 40 °C (Indoor and windless environment use only)
	Humidity: 95% or less
Dimensions	400mm \times 300mm \times 200mm (L \times W \times H)
Weight	Approx. 2.55 kg
Thread Connection	1/4 Thread Connection
Running Computer (Minimum Configuration)	
Operating System	Windows10
Processor	Intel i5-6260U
SSD	480G SSD
RAM	8G DDR4
GPU	Intel UHD Graphics 630
Network	1000Mbps
USB	USB3.0 \times 4 USB2.0 \times 2

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Working Principle



Temperature Measurement Accurate Error
 $\pm 0.2^{\circ}\text{C}$

Non-Contact Optimal Distance
2~6m

Single Temperature Measurement Speed
< 0.1s

Face Detection with Mask Rate
> 98%

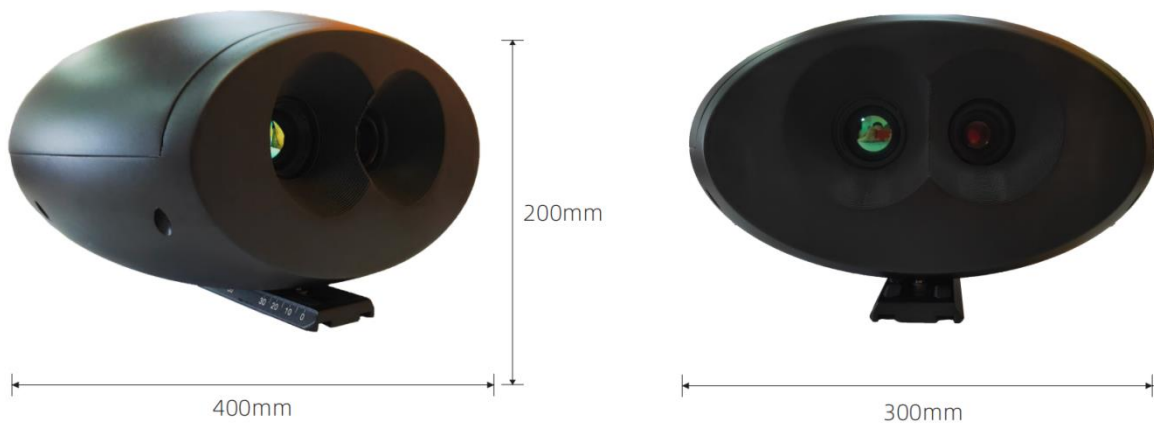
Face Recognition Rate
> 90%

Thermal Imager Resolution
640*480

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Dimensions



Applications

Adapt To Temperature Measurement Needs In Densely Populated Areas



Transportation



Factory



Bank



Community



School



Hospital



Supermarket



Government