



Vi-Link

Fiber Optic Communications

Body Temperature & Face Detection Access Control Tablet Camera With WiFi and RS-232 Interfaces

Thermal Camera Equipment

Model TC160



Features

- Processor CPU 4 Core RK3299
- RAM DDR3 4 GB
- 8 Inch or 10 LCD Screen
- Resolution 1280*800
- Local Storage TF Card 32GB
- Network Interface 2.4G WiFi,
- Audio Interface
- Weigand and RS-232 Interface for Access Control
- Measurement Distance 0.2 ~ 2m (8" ~78")
- Precision +/- 0.3°C (+/-0.54°F)
- Local 20,000 Face Database
- Face Detection @ Tracking 5 people Simultaneous
- 1:1 Face Recognition and Comparison

Product Description

Vi-Link Access Control Camera: The TC160 Face Recognition and Intelligent Temperature Measurement Series is a temperature detection terminal for non-inductive body temperature measurement. It uses infrared thermal imaging technology to detect the temperature of passing people, at the same time, performs face recognition snapping and comparison of the detected persons and the body temperature status. Abnormal temperature will warn the staff to intervene and establish the first line of safety defense when passing. The core equipment adopts a vertical structure display screen for measuring temperature, and a built-in high-precision infrared temperature probe, which can directly display the temperature value of the human face while measuring the temperature. Imported Germany Hyman temperature probes can be used in the recognition area with fast temperature measurement to ensure accurate and efficient measurement.

Face recognition is one of the most widely used technologies in the field of computer vision and is the core technology of this series of products. The whole set of technology starts with face detection, determines whether there is a face in the input image, and obtains preliminary information such as the position and size of the face. In order to improve the recognition rate, then image preprocessing is needed, and gray correction and noise reduction are used to improve the image quality and provides a better data foundation for subsequent operations. Then, it extracts face features and matches them with a large number of face samples in the database to finally generate target recognition results. For some higher security requirements, it is also necessary to determine whether the face target in the image is the user's real person through live detection technology.

Face temperature measurement system expands the combination of body temperature detection and face recognition system, effectively reducing the cost investment of medical, educational institutions, government units, enterprise parks and other institutions. At the same time, it can be linked with related equipment and systems such as smart gates and epidemic intelligent management systems to seamlessly connect with the guest machine system, and synchronize the person's temperature and disease information through face recognition to establish data information related to temperature detection. It is helpful to analyze the rules of fever epidemic in depth, assist in researching and judging the trend of fever epidemic, and to achieve immediate detection and control, accurately lock out severe areas / units, and effectively monitor the implementation of epidemic prevention and control.

Advantage

- ★ **Wide Using Application:** Suitable for schools, hospitals, communities, office buildings, shopping malls, public service hotels, access gates and other places that need to measure human temperature and need to effectively collect and analyze temperature measurement data.
- ★ **Non-contact Temperature Measuring:** More Efficiency Non-contact temperature measurement, through infrared thermal imaging probe can quickly screen abnormal body temperature targets, screening accuracy is high, rapid differentiation.
- ★ **Body Temperature Threshold:** Setting for Increase Safety Level Supports body temperature screening. The terminal can set the safety threshold for temperature detection. When the safety threshold is exceeded, the sound and light alarm function of the temperature measurement device can be triggered.
- ★ **Long-distance Detection:** Super recognition algorithm, support face recognition and temperature detection distance of 0.2 meters to 3 meters.
- ★ **Multiple Installation:** For the temperature measurement scenarios required in different places, the diversity of this series of products can satisfy more customer use scenarios and play the greatest role with less space.
- ★ **Data Statistics:** Real-time automatic record alarm times and the number of people passing, and send to the background management system. At the same time, the temperature detection data can be matched with the face and stored, synchronously transmitted to the background, to achieve the data summary and statistics.
- ★ **Alarm Function:** When abnormal temperature detection, support alarm light and sound, arbitrary adjustment Settings.
- ★ **Software Platform:** Connect to Big Data Support the platform data docking of various customers such as schools, government departments, enterprises and public institutions, support the multi-port data sharing, support the customized software personality development, can meet the requirements of more customers for data processing.

Ordering Information

Model	Descriptions
TC160	Body temperature & Face Detection Access Control Camera, 10 Inch LCD Screen, 2.4 GB WIFI, Wiegand, RS-232 Access Control



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Technical Specifications

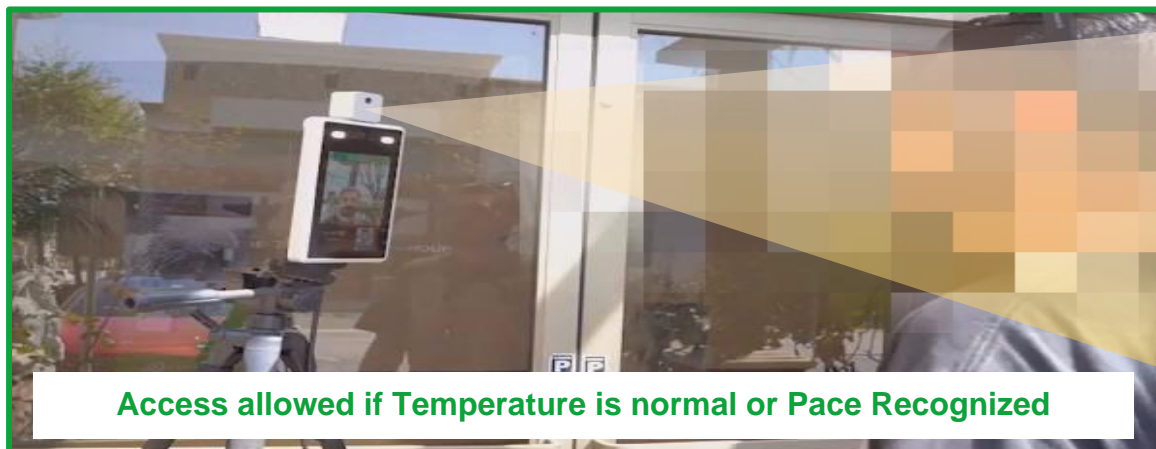
Thermal Camera Equipment

Model TC160

System:	
Processor	CPU 4 Core RK3288
RAM	DDR3 2GB
Image Processing	Dual ISP
Local Storage	8GB Memory
Card Reader	IC/ID Card Reader, QR Code
Temperature Module	Hyman, Germany
Fill Light	Infrared LED Fill Light
System Reset	Reset Button
Interface:	
WiFi	2.4 G Network Card
Ethernet	10/100M TX
Audio	Input / Output
Data	RS-485 / RS-232 Interface
USB	USB 2.0 Micro
Wiegand	Control Access- 2.5mm X2PIN
Environment:	
Operating	-20 ⁰ C to +60 ⁰ C
Storage	-40 ⁰ C to + 90 ⁰ C
Humidity	98% Non-Condensing
Physical:	
Dimesion	8.5" x 5" x 1"
Power:	
Standalone	+12 VDC

Infrared Thermal Image:	
Resolution	200W
Field of View	33 ⁰
Distance Range	0.2 ~ 2m (8" ~ 78")
Measurement Range	30 ⁰ C ~ 45 ⁰ C (86 ⁰ F ~ 113 ⁰ F)
Temp Measurement	+/- 0.3 ⁰ C (+/-0.54 ⁰ F) Accuracy
Temperature Detect	Global and Regional
Face Recognition Video Image:	
Type	RGB + Infrared Sensor
Display	8 or 10 Inch LCD Screen
Image Resolution	800p x 1280p
Field of View	118 ⁰
Noise Reduction	2DNR, 3DNR
Day & Night	Color/B/W
White Balance	Auto, Indoor, Outdoor
Video Compression	H.265/H.264, MJPEG
Face Recognition	Desprise
Face Detection	Simultaneous Detection and Tracking 5 People
1 : N Recognition	99% Rate
1 : 1 Comparison	99% pass Rate
Recognition Speed	<300ms
Local Capacity	Built-in 20,000 Faces Database
Abnormal Alarm	Light and sound, arbitrary Adjustments, Settings

Application



Typical TC160 In Access Control Application