



Datasheet 101775

Facial Recognition
+Temperature Measuring
Access Control

Non-contact Body Temperature Measuring and Facial Recognition Access control for epidemic prediction and control

AI biometric technology that uses an infrared sensor to measure and record the body temperature in real time based on the facial feature information of the person. This device is based on a multi-task cascaded convolutional neural network face algorithm. Technology to effectively extract, identify and compare human facial features, support face recognition when wearing a mask and measure body temperature.

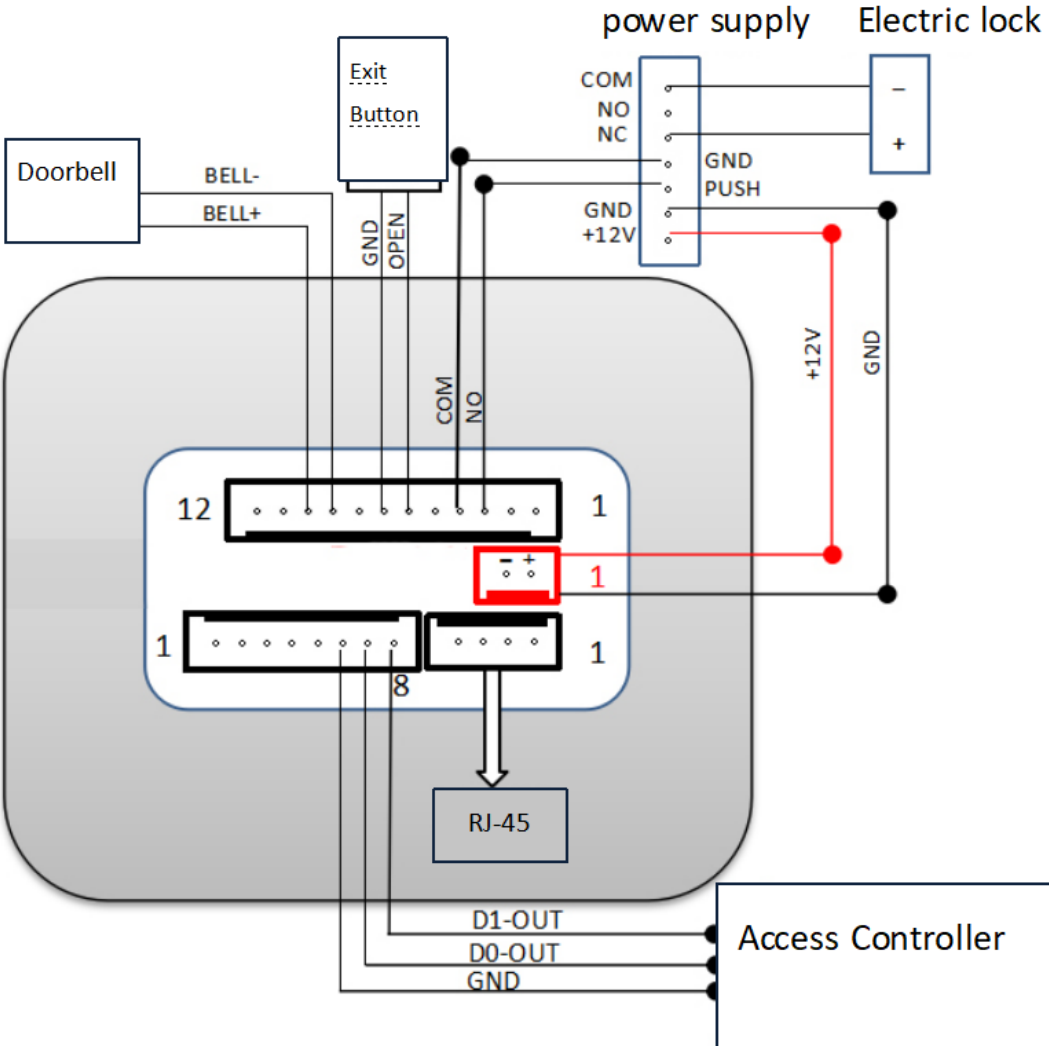
One of the main symptoms of a viral infection is an abnormal body temperature. The normal body temperature ranges from 36.5 ° C to 37 ° C and if it exceeds 37.3 ° C, it is a true pathological fever.

Specifications

- 5.0 inch capacitive touch screen 854 * 480
- **Fast Temperature Detection:** non-contact body surface temperature measurement within 1 second, which avoids cross infection
- Accuracy: $\pm 0.3 \sim 0.5^{\circ}\text{C}$
- Valid Distance: 0.3-0.5m
- **Voice Alarm for Abnormal Temperature Cases**
- Ambient temperature: $-20^{\circ}\text{C} \sim 65^{\circ}\text{C}$
- Temperature sensor measure range: $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Facial + Temperature verification to reject abnormal access
- Technology platform: LINUX intelligent operating system
- Dynamic face recognition verification, password verification, face + password verification, (customizable ID/IC card)
- Running memory: 4GBit DDR3, storage capacity 32GBit.
- Face recognition accuracy better than 99%
- Embedded & integrated design
- Collection, detection, comparison and living judgement on one device
- Support output 485 and Wiegand signals: can be seamlessly connected with various access controllers, supports WG26, WG34

- Automatic adaptation to light environment
- Face storage: 3,000 faces, 1 million records
- Support extended 1:1 witness identification, 1:n face recognition
- Face recognition speed: 0.2 seconds
- Flexible way to import face templates, supports single / batch image file import and real-time capture of registered faces
- It can run offline in the disconnected mode without relying on computer control.
- Visible light + infrared light binocular live detection and recognition to prevent fraud on mobile phone photos and videos
- Supports online photo import or photo registration, face registration directly on the touch screen, U-disk import photo registration face
- Supports wearing a face mask during face registration
- Multiple authentication modes: face, password, card (optional) and other modes
- Powerful access control functions and access control input and output interfaces
- Conventional temperature measurement mode: register even when wearing a mask, open the door when the temperature is normal and do not open the door if the limit is exceeded.
- **The temperature measurement function can be turned off if the epidemic ends**, the sensor can then be used for dynamic face access control attendance
- Alarm temperature can be customized
- Voice prompt “normal body temperature” when body temperature is normal, voice “abnormal body temperature abnormality” when body temperature is abnormal

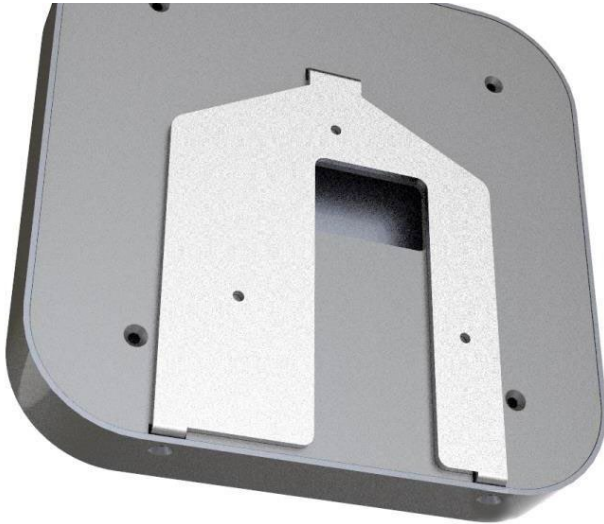
Access control installation wiring diagram



Application

Fast Temperature Screening in public places: supermarkets, schools, offices, parks, shopping malls, etc.

Wall hanging stand



Desktop stand



Solution with turnstile gates

