



**Committed to People.** Creating Safer Environments



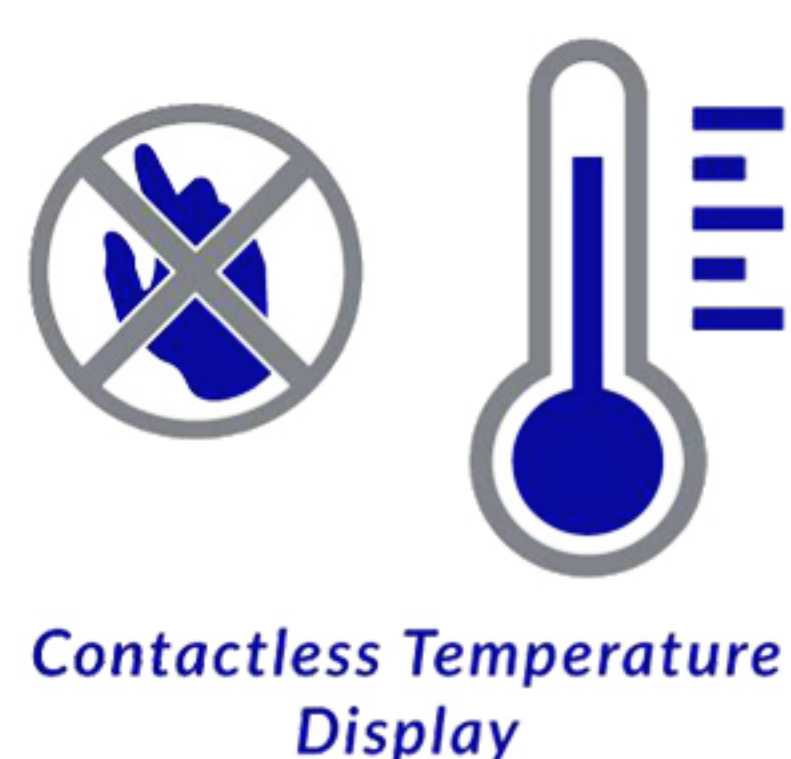
# Automated Contactless Thermal Scanning & Attendance System



**8-inch Face Recognition, Temperature Measurement, Mask Detection, Access Control And Checking-in All-in-one Machine**

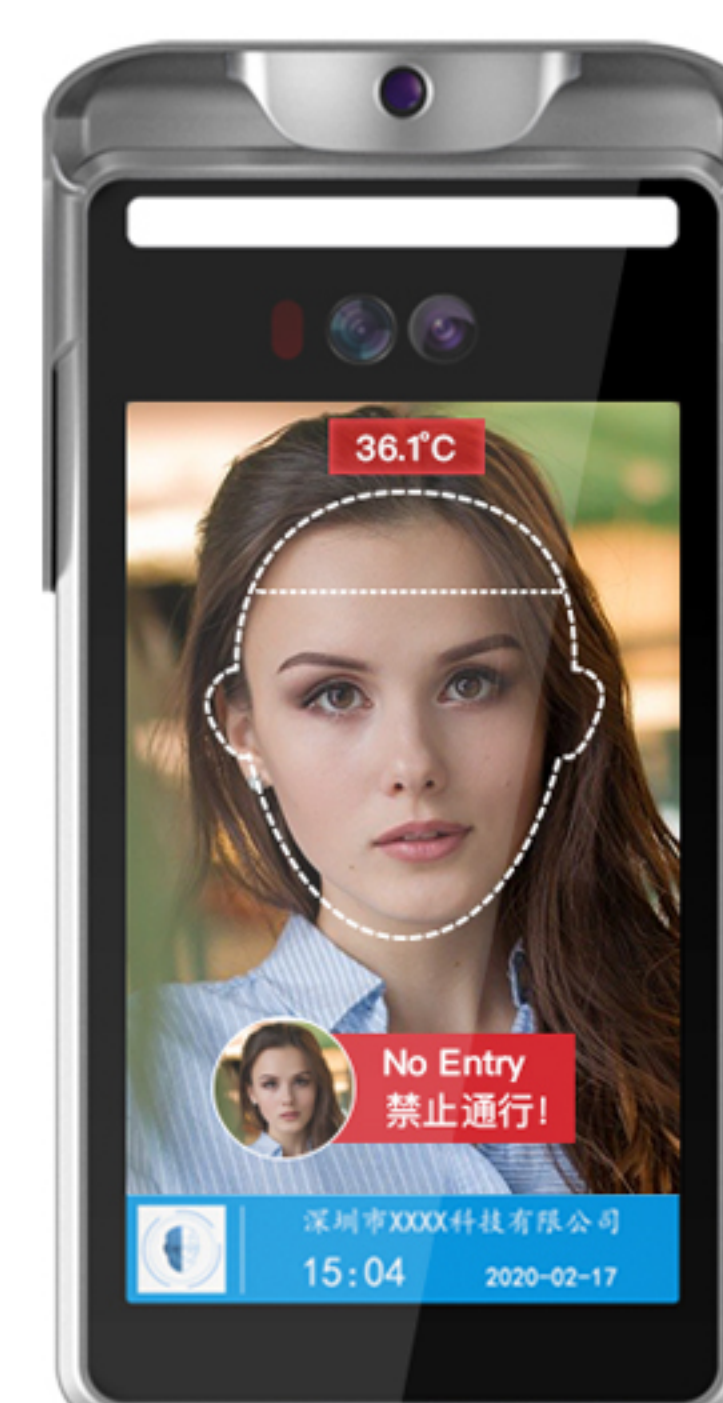
## Automated Contactless Temperature Checking

Non-contact automatic temperature measurement, face swiping and high precision infrared body temperature collection, fast and efficient. Binocular bioassay anti-counterfeiting function to prevent deception through photos, videos, Unique face recognition algorithm to accurately recognize faces, facial recognition time < 0.5 Seconds. The automated nature of this system not only efficiently reduces manual labour, but also means it is completely contactless, which is of paramount importance in today's world.



## High Security Facial Recognition

With Facial Comparison precision rate  $\geq 99.9\%$  accuracy, this solution can also be used as a check in/out system for offices, schools, warehouses and other secure locations. You can even create a whitelist and blacklist and the face swiping to control and restrict access, as well as recording all building entries. Support dynamic face tracing exposure under strong backlighting condition, support machine vision optics wide dynamic  $\geq 80\text{dB}$ ; Independent face recognition algorithm to accurately recognize faces, face recognition time < 300ms.



- Stip - Light Indicator
- Advertisement Display
- Mask Detection system
- Attendance Report Generation
- Thermal Imaging Module
- All-in-One Hardware/Software Solution
- Fever Alarm
- Calendar Integration
- Robust Metal Enclosure
- Clock On / Out System
- Payroll Management system
- Various Mounting Options
- Height Adjustment For Children



## Mask Detection System

Besides the system can also check if the user is wearing a mask if this is an entry requirement to your building. AI+infrared thermal imaging to achieve accurate temperature measurement with masks worn.



Works with protective face masks

## Strip-Light Indicator

Support person movement tracking exposure under the strong backlight environment and support the wide dynamic range of machine vision optics of no less than 80dB Support light passing through fog, 3D noise reduction, strong light inhibition, electronic anti-shake, and have multiple white balance modes, suitable for the demand of various scenes



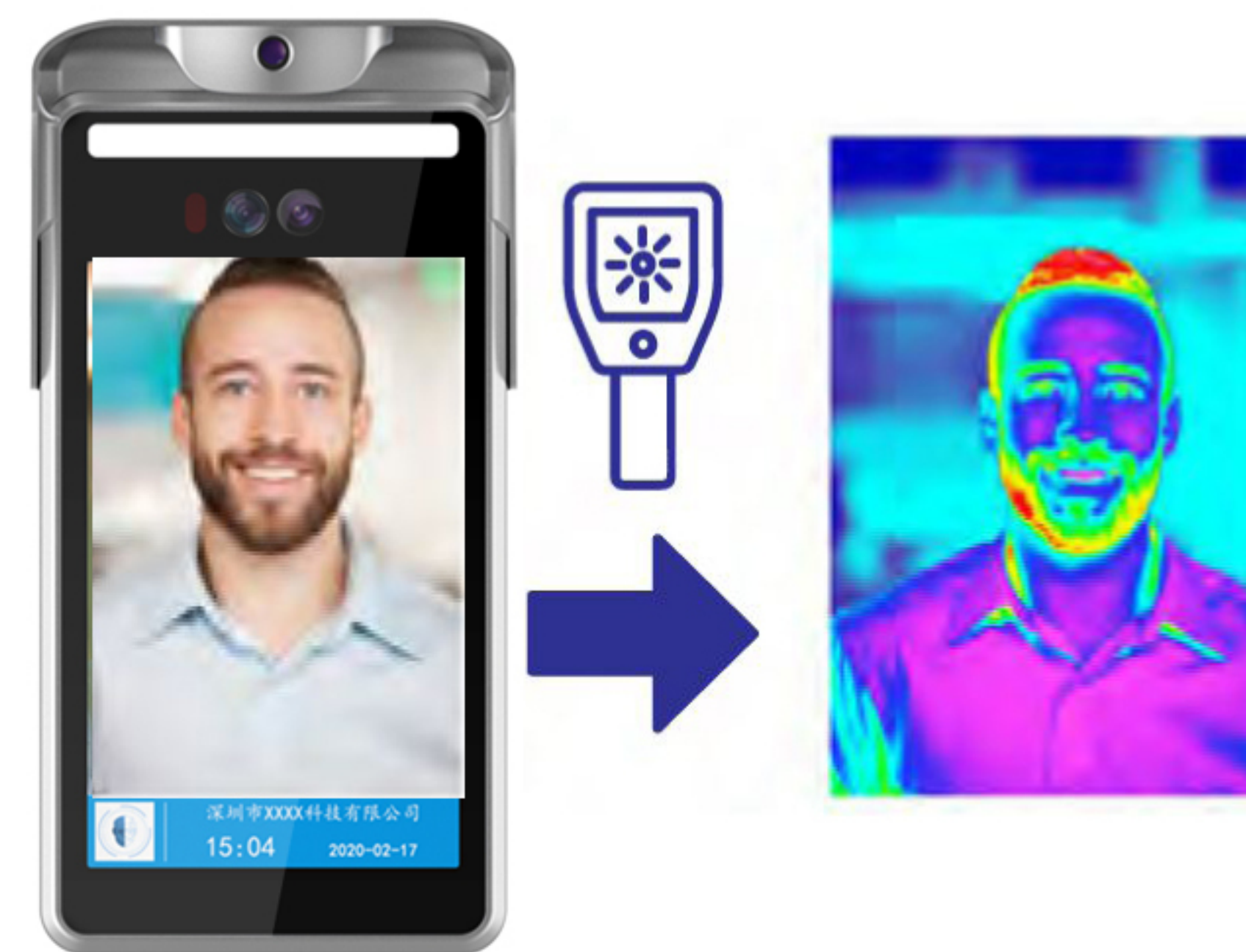
## Fever Alarm

When a user's temperature reading exceeds a stipulated temperature, a visual and audio alarm activate to alert the user that they have a fever Abnormal alarm:Voice alarm when normal threshold is exceeded. Support electronic voice broadcast (normal or high body temperature alarm and face recognition verification results)



## Accurate Thermal Imaging

The thermal imaging module measures the ambient temperature as well as the user's body temperature to maximise accuracy. The full sensor temperature range is -20°C to +60°C with an accuracy of ±0.3°C



## Core Function



Linux system stability



Face recognition



Fever detection



Mask recognition



Temperature detection



Intelligent attendance



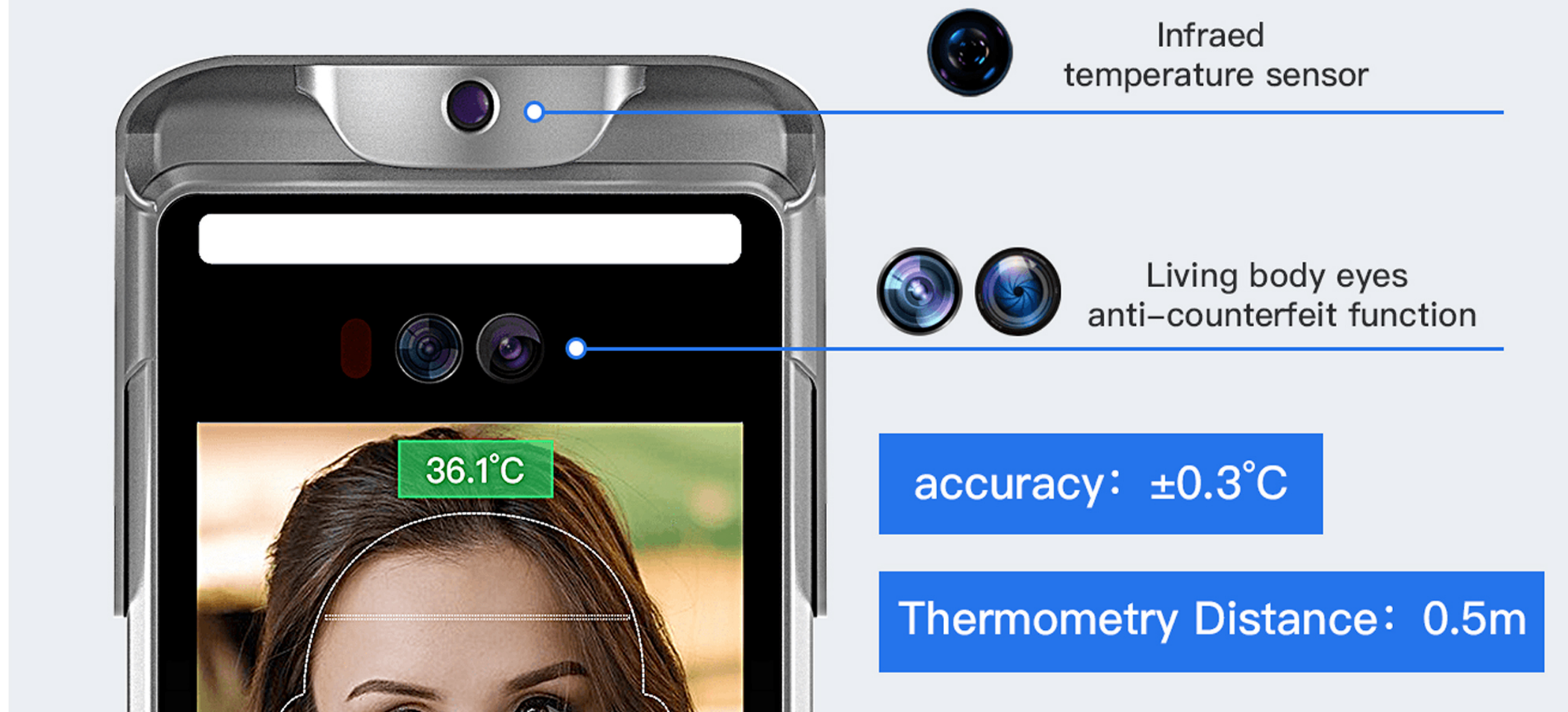
Flexible deployment



Access control



## High Dynamic Binocular 2 Million Face Recognition Camera



Tx-2 face recognition, temperature measurement, access control and checking-in all-in-one machine can replace the fingerprint attendance to reduce the contact transmission, achieve the functions of face temperature measurement and clocking-in, and automatically generate statistics reports to improve management efficiency.

### Application Scenarios



School



Factory campus



Construction site



Office building



## Attendance Statistics

Face, body temperature and clocking-in can be seen instantaneously and the work attendance is automatically counted. Meanwhile, all face records will be automatically saved to facilitate the secondary screening and check of person. Automatic information register and record to avoid manual operation, improve efficiency and reduce drain message; Support one-way Wiegand input or Wiegand output.



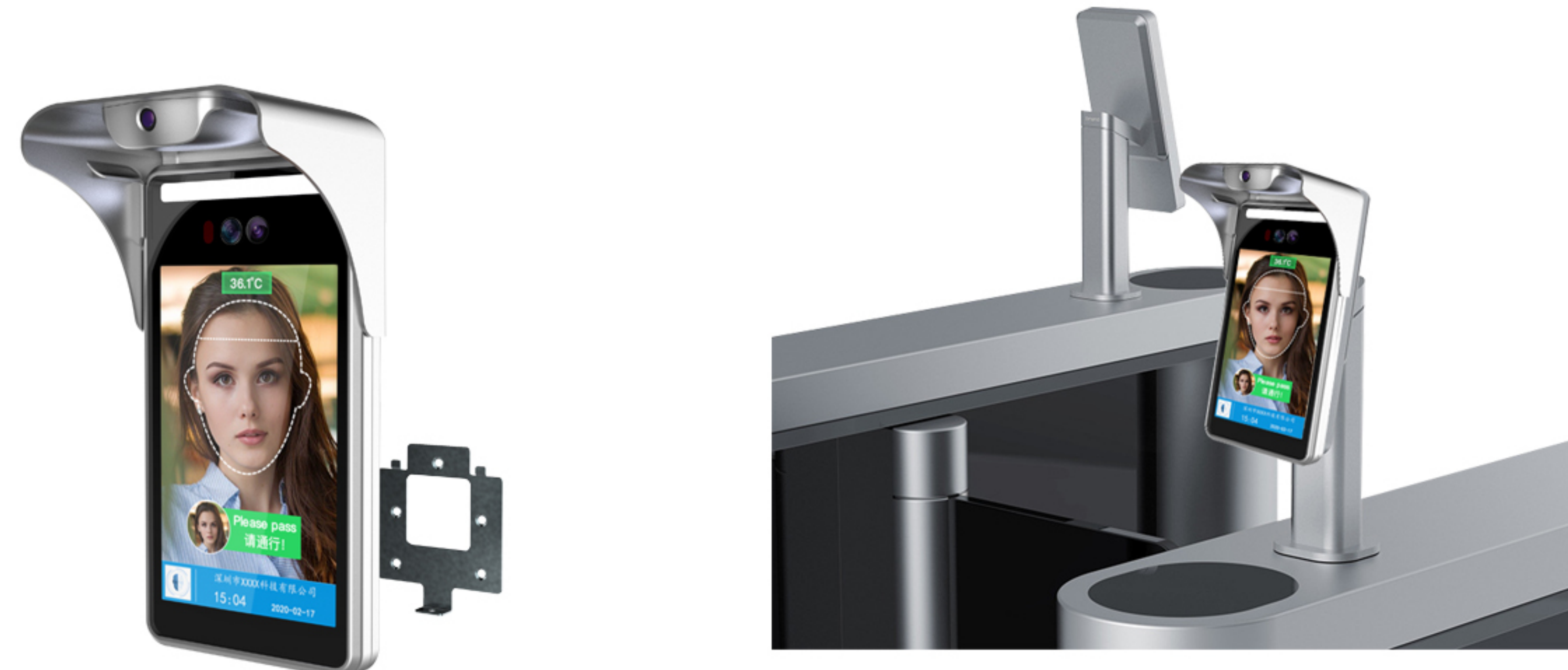
## Support Card/ID Card Swiping

If You Want To Incorporate An Id Card Reader For Building Access You Can Do So. This Feature Can Also Be Controlled And Managed By The Software That Is Included. support Face Swiping And Card Swiping (Id Card And Ic Card) Multiple Authentication Methods To Satisfy Different Demands



## Back-Stage Management System

Support the face comparison library with 22,400 photos and 100,000 face recognition records, and store all face, temperature, passing and attendance records of all persons in real time to facilitate query and tracking. Data analysis: Reports are automatically generated and third-party platform can be accessed to complete data summarization



## Multiple Installation Mode

Gate Type



Wall Mounted



Tripod



Desktop



Column Type



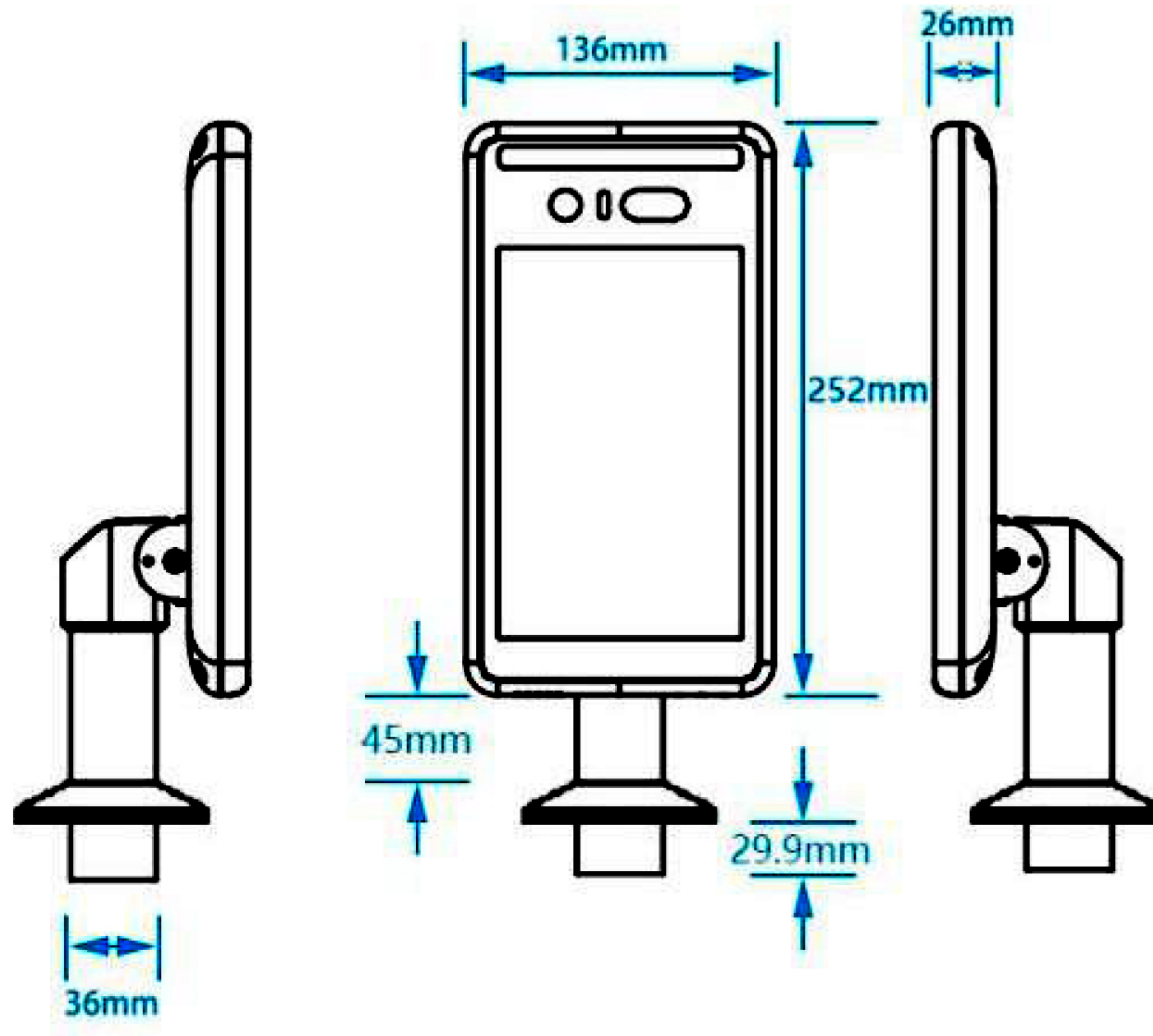


# Specification Parameters

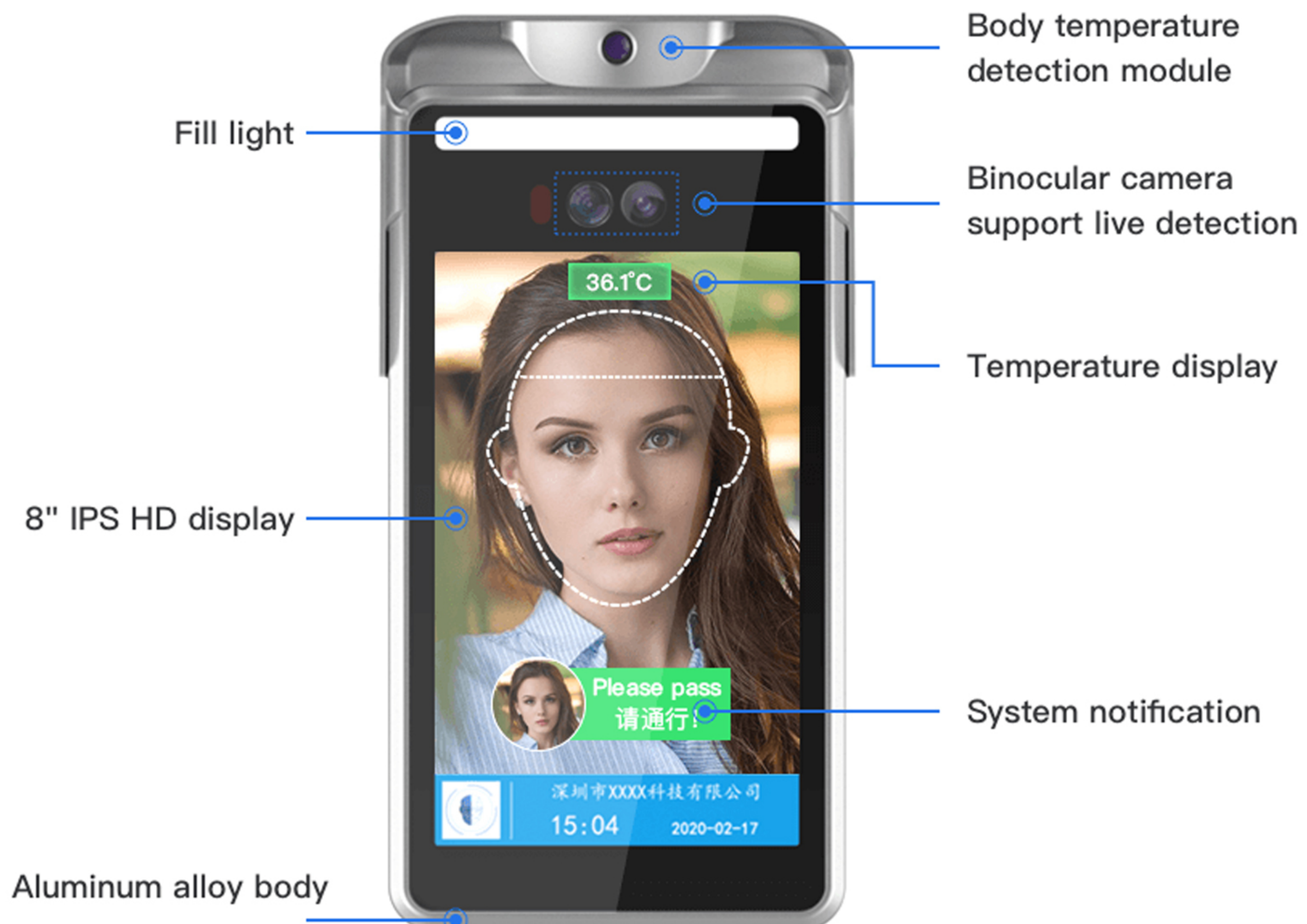


Specification Model	TX-2
<b>Hardware</b>	
Processor	Hi3516DV300
Operating system	Linux OS
Storage	16G EMMC
Imaging devices	1/2.7" CMOS
Lens	4m
<b>Camera Parameters</b>	
Camera	Binocular camera, support live detection
Valid pixels	2 million valid pixels, 1920*1080
Lowest illuminance	color 0.01lux @F1.2 (ICR); black and white 0.01lux @F1.2
Signal to noise ratio	≥ 50db (AGC OFF)
Wide dynamic range	≥80db
<b>Face performance</b>	
Facial Recognition Height	1.2-2.2m, adjustable angle
Facial recognition distance	0.5-3m
Visua langle	30degrees up and down
Recognition time	<500ms
Functions	Support 22,400 faces comparison library and 100,000 facial recognition records
<b>Temperature Performance</b>	
Temperature range	30-45(°C)
Temperature measurement accuracy	±0.3(°C)
Temperature measuring distance	≥ 0.5m
Response time	<300ms
<b>Interface</b>	
Web interface	RJ45 10M/100m Adaptive Ethernet Ports
Wiegand interface	Support Wiegand input or Wiegand output, support Wiegand 26 and 34
Alarm Output	1I/O Output
USB interface	1 USB interface (external ID card reader)
<b>Optional</b>	
IDCard Reader	Option, external device connection
QR Code Reader	Option, external device connection
<b>General Parameters</b>	
Power supply	DC 12V/3A
Consumption	20W (MAX)
Operating temperature	-0°c-+50°c
Working humidity	5-90% relative humidity, no condensation
Device Dimensions	154 (width) *89 (thickness) *325 (height) mm
Device Weight	2.1 kg
Column aperture	33mm





## Product Structure





# Considerations

- Temperature measuring device should be applicable in rooms that are not ventilated at room temperature between 16°C - 40°C;
- People coming from cold outdoor into indoor environment can affect measurement accuracy;
- Test starts after starting up 10 minutes while the sensor and ambient temperature are balanced;
- It needs to be guaranteed that there is no heating source or air conditioning vents within 3 meters of the device;
- The forehead must be kept indoors no obstruction for three minutes and the temperature is stable before the forehead temperature having been measured;
- Being exposed to certain factors can change forehead temperature, such as showers, hair dryers, spray, etc.
- When the forehead has oil, makeup, oxygen mask, or the elderly have wrinkles, the temperature measured will be lower than the actual temperature;
- The temperature of the projection was measured, making sure that the projection area is not covered by hair or clothes.





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