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TECHNOLOGIES (P) LTD.

THERMAL IMAGING HELMET
New technology

- Face recognition
- Automatic navigation
- AR technology
- Body temperature detection

Temperature Screening From Distance

Multi-person detection

Carbon fiber shell
No interference inspection
High-precision temperature measurement

MULTIFUNCTIONAL USAGE

Face Recognition
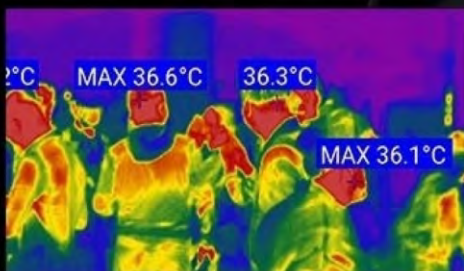
License Plate Recognition

Identity Verification

Stylish Watch For Helmet Control

Welcome to the smart helmet

Param Setting

Mode Switching

WLAN Connection

Data Exporting

MR AR Technology

PRECISE INFRARED THERMAL IMAGING

Sensorless temperature measurement

°C   MAX 36.6°C   36.3°C

MAX 36.1°C

36.5°C

MODES OF OPERATION

Thermal Imaging Model. This has 2 operating modes.

1. Single-person temperature measurement mode: The temperature of the single target in the centre of the screen will be measured. The maximum temperature of different parts of the body is displayed on the AR module. The temperature above the normal range will trigger an audible and visual alarm.
2. Large-crowd temperature measurement mode: The temperature of the forehead, collar, arm, and other body parts exposed in the screen will be measured. The system will display the temperature if any part in the screen falls into the preset temperature range. The alarm will trigger when any part of the temperature goes above the threshold value.

Advanced Model. This has 9 operating modes.

1. Single-person temperature measurement mode:
2. Large-crowd temperature measurement mode:
3. QR code mode: Scan the QR code to automatically record personal info into the database in real time, allowing paperless data logging.
4. QR code & temperature measurement mode: Scan the QR code to acquire the personal information first, and take a temperature measurement of the person within 3s. The personal information and the corresponding temperature will be automatically recorded into database. This will implement paperless registration of the personal information and the corresponding temperature.
5. License plate recognition mode*: Recognize the vehicle license plate, identify and alert unregistered vehicles or suspect vehicles recorded in database.
6. License plate recognition & temperature measurement mode*: Besides plate identification mentioned before, the helmet can measure the temperature of the single target in the center of the screen. The maximum temperature of different parts of the body is displayed on the AR module, and the temperature above the normal range will trigger an audible and visual alarm.
7. Thermographic diagnostic Imaging mode: Thermal imaging detection on specific parts of the human body to assist finding the location and size of the lesion areas that cause fever.
8. Night-vision/Facility inspection mode: Thermal imaging scanning of industrial facilities or establishments of night places, HVAC equipment, pipelines and electronic equipment, to assist finding target with abnormal temperature or searching for unauthorized person.
9. Face recognition mode: The face of target in the screen is recognized and the personal information will be displayed on the AR display. This mode is applicable for enterprises and institutions to manage their black and white lists of employees and visitors.
*License plate recognition is not available as a standard option. It has to be customized for countries when needed.

BasicParameters:

Basic information	
Processor	ARM Cortex A53 octa-core 2.5GHz
Operating system	Android 8.1
RAM	DDR 4GB
Memory	eMMC 64GB
Weight	1135g

AR display module	
Display	Array type optical waveguide display
Field of view	35°
Virtual screen size	Equivalent to watching 74-inch TV from 3m away
Rated brightness	300nit

Infrared thermal imaging module	
Resolution	384x288
Response band	8μm ~ 14μm
Image frequency-frame	25Hz
Temperature measurement range	-20°C~120°C
Temperature measurement accuracy	+0.3°C within the specified range(2m by default)

Visible light camera module	
Maximum pixels	13 megapixels
Maximum aperture	F2.0
Field of view	78°
Video resolution	1080P@30fps

Data communication module	
Wi-Fi	IEEE 802.11 b/g/n , 2.4GHz
Bluetooth	BT 4.2, backward compatible with 3.0, 2.1, supporting BLE

Battery module	
Capacity	5000mAh
Voltage	DC3.7~4.2V
Charging voltage	DC5.0V ±5%
Quick charge	Supporting 2A fast charging

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