FUTURE COOPERATION

SMART HELMETS PRODUCT PROMO GUIDE

GREECE 2020

FUTURE COOPERATION

Future Cooperation Consulting S.A. brings in the Greek and Cyprian market a powerful weapon in the fight against the virus, COVID-19.

The **Smart Helmet** is a new high-tech helmet that automatically scan the temperatures of pedestrians within a five-meter range.

It has an infrared camera that sets off an alarm if someone nearby has a fever, as well as built-in facial-recognition technology, displaying personal data of detected citizens on a screen inside.

Future Cooperation Consulting S.A. is the exclusive representative of the **Smart Helmet** both in Greece and Cyprus.

If you find this guide useful and you need further information, do not hesitate to contact us for a product demonstration.

Future Cooperation Consulting
Alexandras Ave 192A
Tel: +302106401030

www.smarthelmet.gr **www.futurecoop.com** **info@futurecoop.com**

Athens | Limassol | London

FUTURE COOPERATION

Created with Decades of Ingenuity First Choice for Epidemic Prevention

Advanced Materials and Technologies
High-precision Temperature Measurement
Unaware & Contactless Screening of Fever
Hi-tech Ultimate Experience

FUTURE COOPERATION

Five Powerful Functions

FUTURE COOPERATION

Smart Helmet for Unaware and Contactless Temperature Measurement

Rapid Screening for

both indoor and outdoor

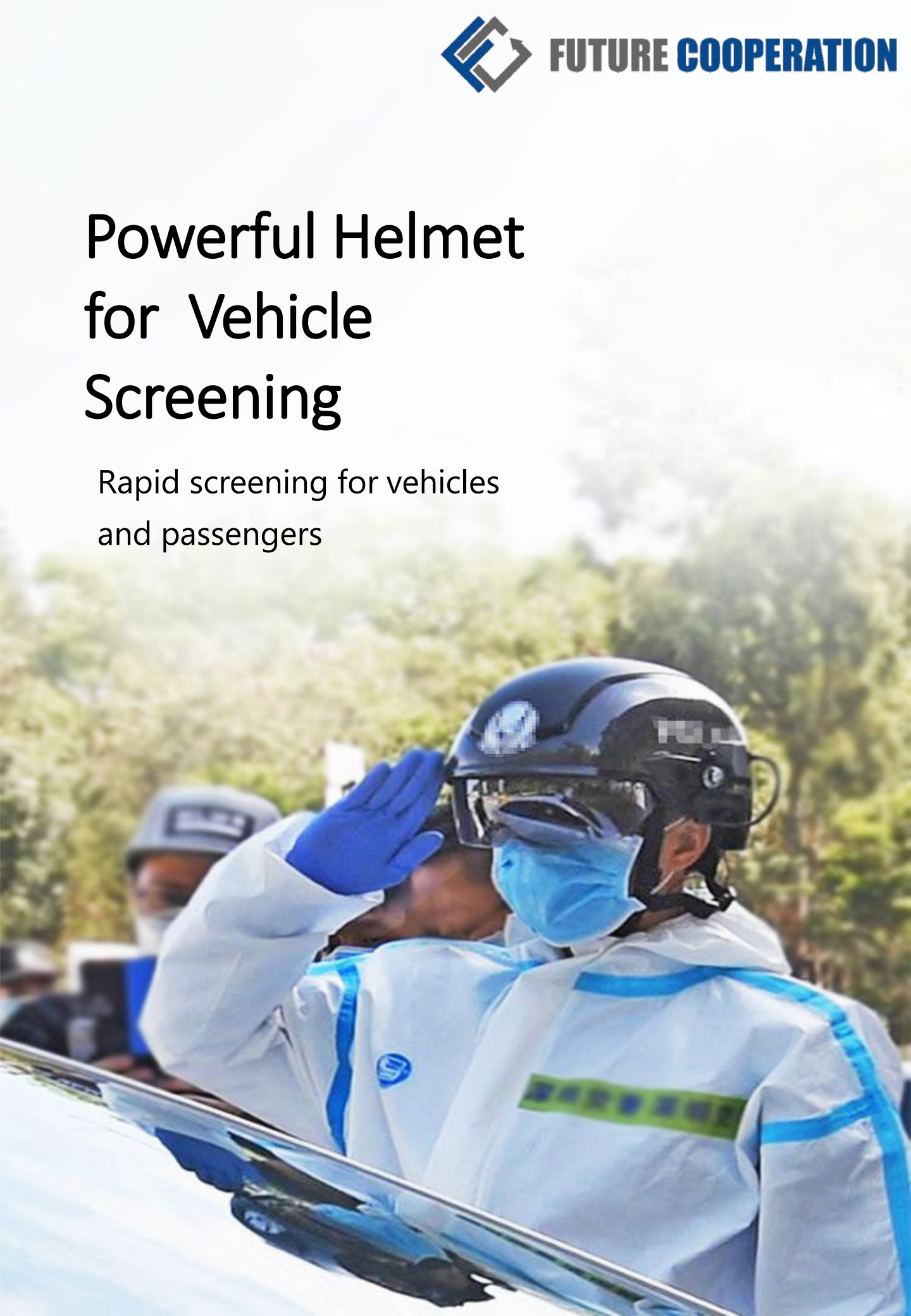
FUTURE COOPERATION

Efficient Helmet for Temperature Recording

FUTURE COOPERATION

Powerful Helmet for Vehicle Screening

Rapid screening for vehicles and passengers



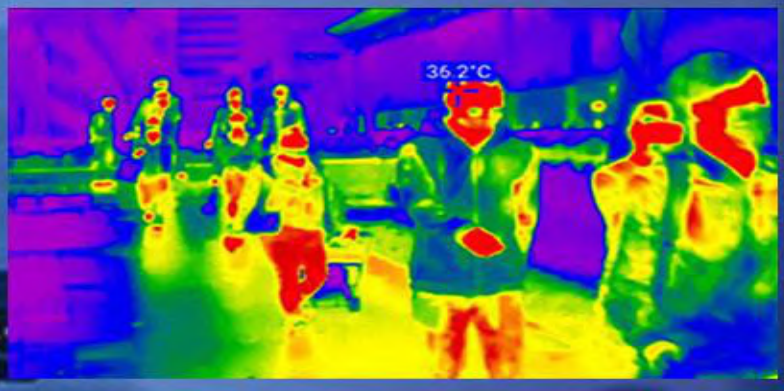
FUTURE COOPERATION

Powerful Helmet for Verification

Rapid face recognition and identity verification

FUTURE COOPERATION

Make the invisible visible



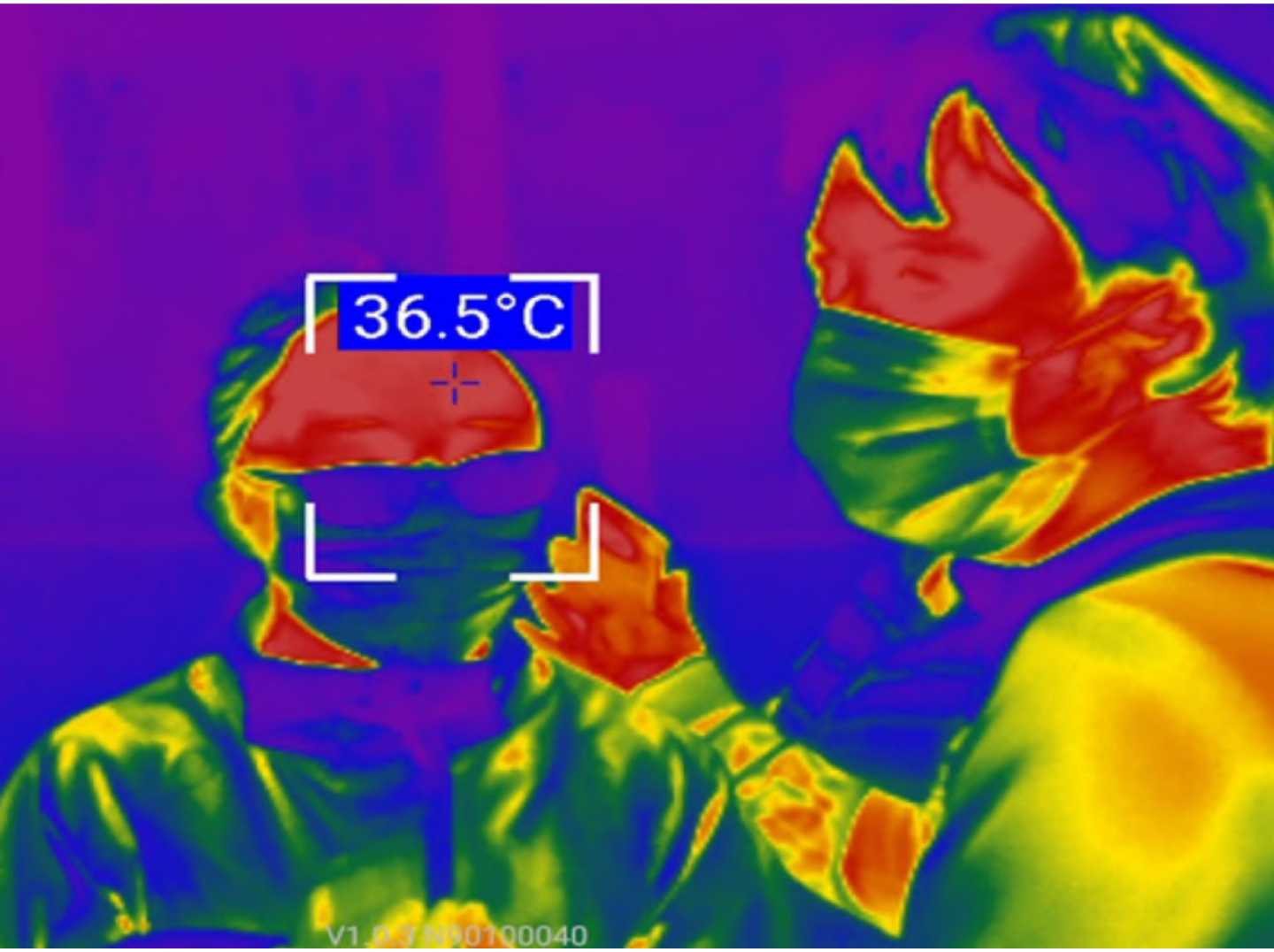
FUTURE COOPERATION

Nine Modes

FUTURE COOPERATION

Single-person temperature measurement mode

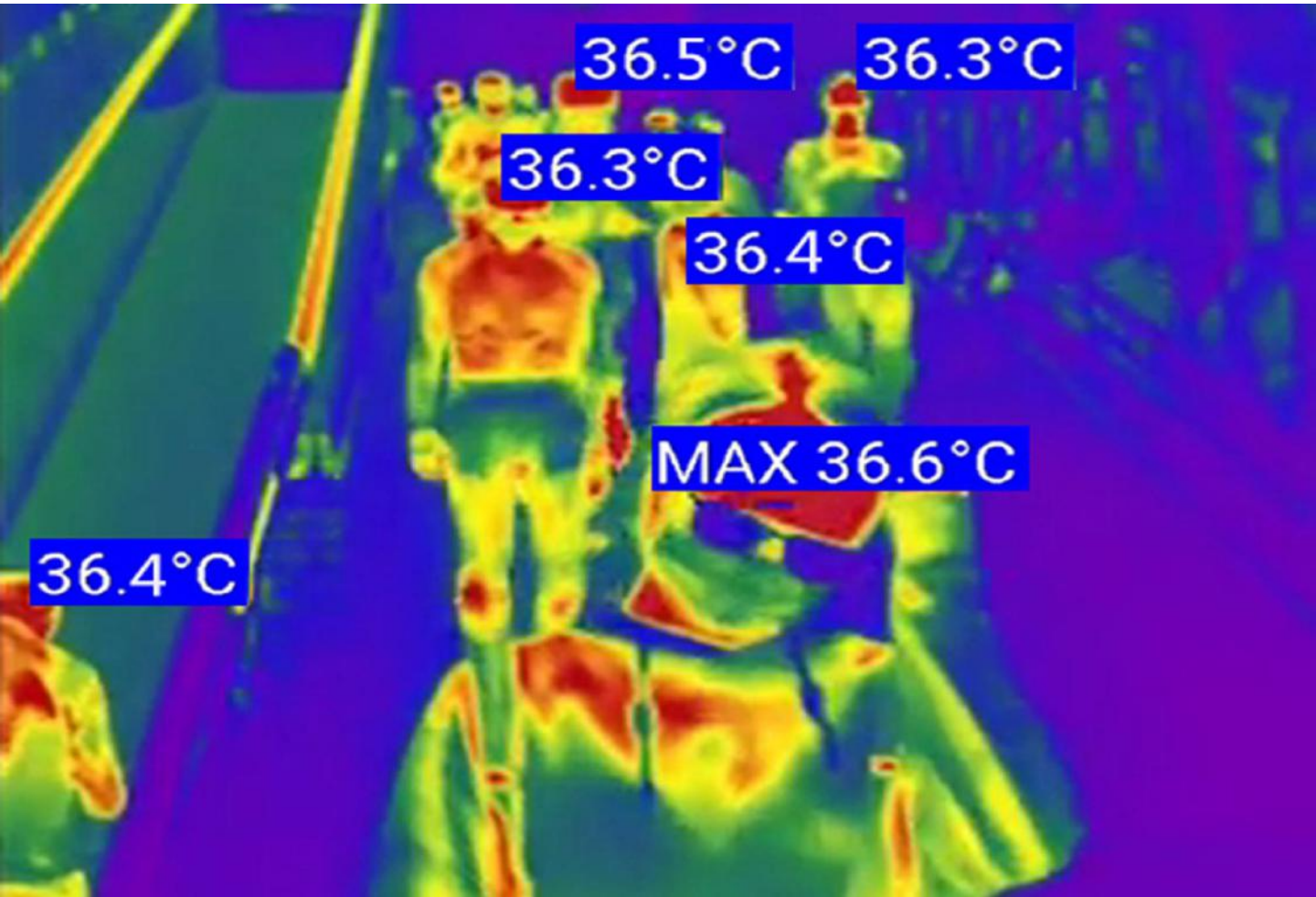
The temperature of the single target in the center of the screen will be measured. The maximum temperature of different parts of the body is displayed on the AR module. The temperature above the normal range will trigger an audible and visual alarm.



FUTURE COOPERATION

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.



FUTURE COOPERATION

QR code mode

Scan the QR code to automatically record personal temperature info into the database in real time, allowing paperless data logging.

FUTURE COOPERATION

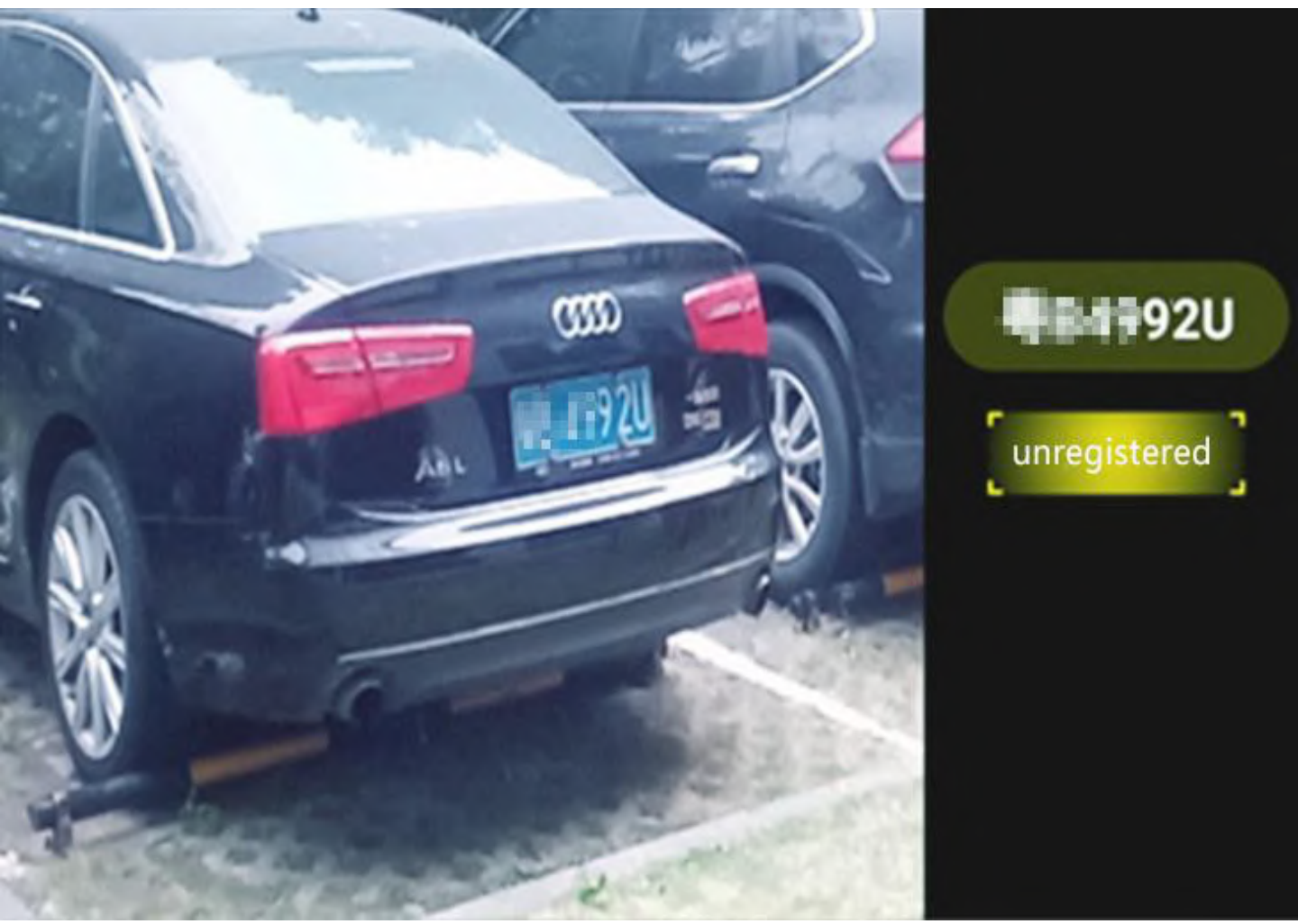
QR code & temperature measurement mode

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.

FUTURE COOPERATION

License plate recognition mode[1]

Recognize the vehicle license plate , identify and alert unregistered vehicles or suspect vehicles recorded in database.



[1]License plate recognition is temporarily only available in mainland China, and could be customized for other countries when needed.

FUTURE COOPERATION

License plate recognition & temperature measurement mode[1]

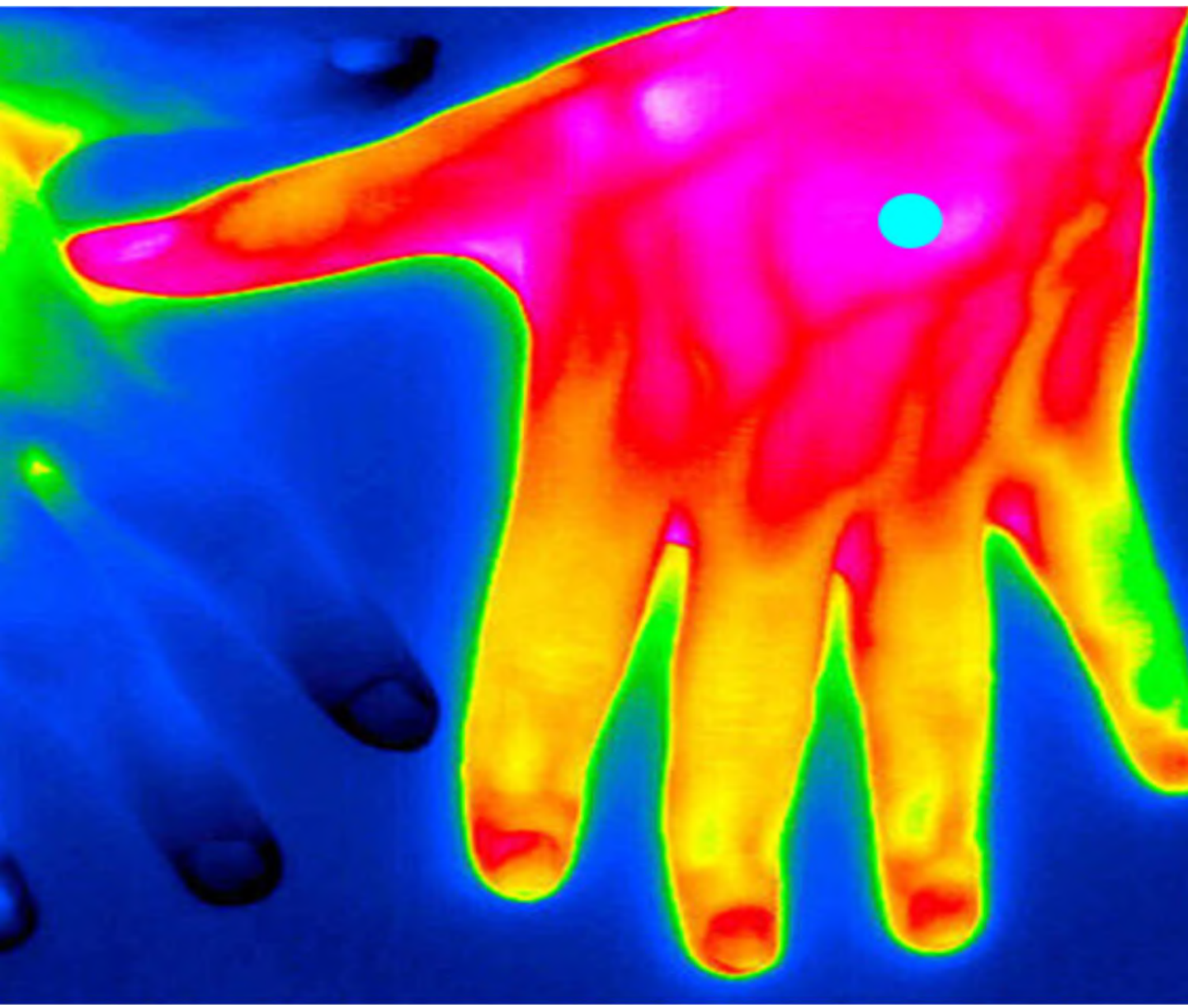
Besides plate identification mentioned before, the helmet can measure the temperature of the single target in the center of the screen. The maximum temperature of different parts of the body is displayed on the AR module, and the temperature above the normal range will trigger an audible and visual alarm.

[1]License plate recognition is temporarily only available in mainland China, and could be customized for other countries when needed.

FUTURE COOPERATION

Thermographic diagnostic Imaging mode

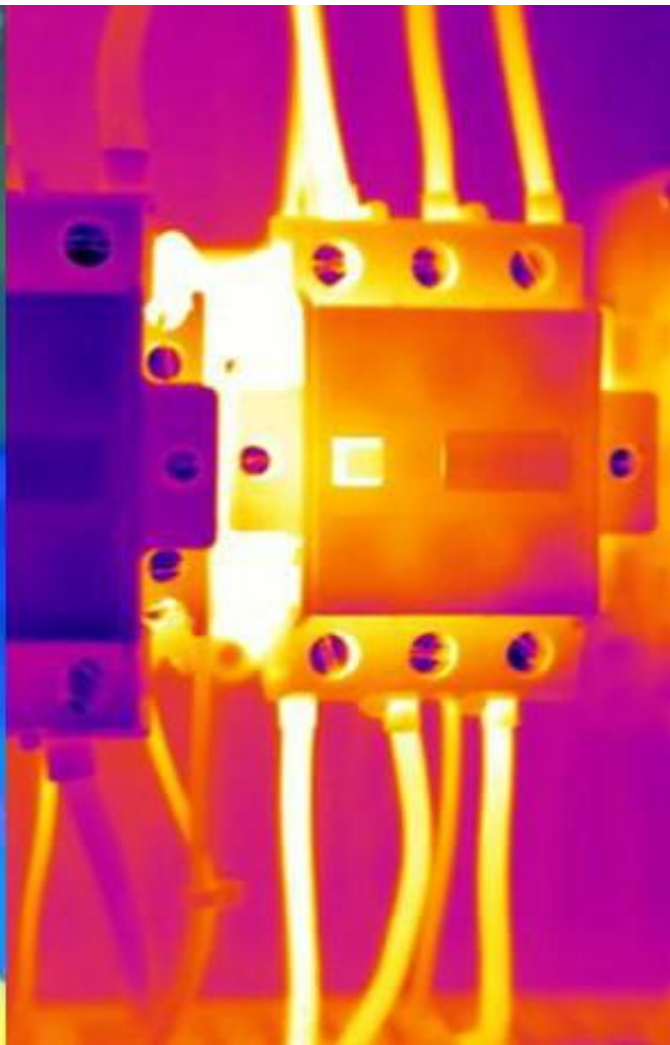
Thermal imaging detection on specific parts of the human body to assist finding the location and size of the lesion areas that cause fever.



FUTURE COOPERATION

Night-vision /Facility inspection mode

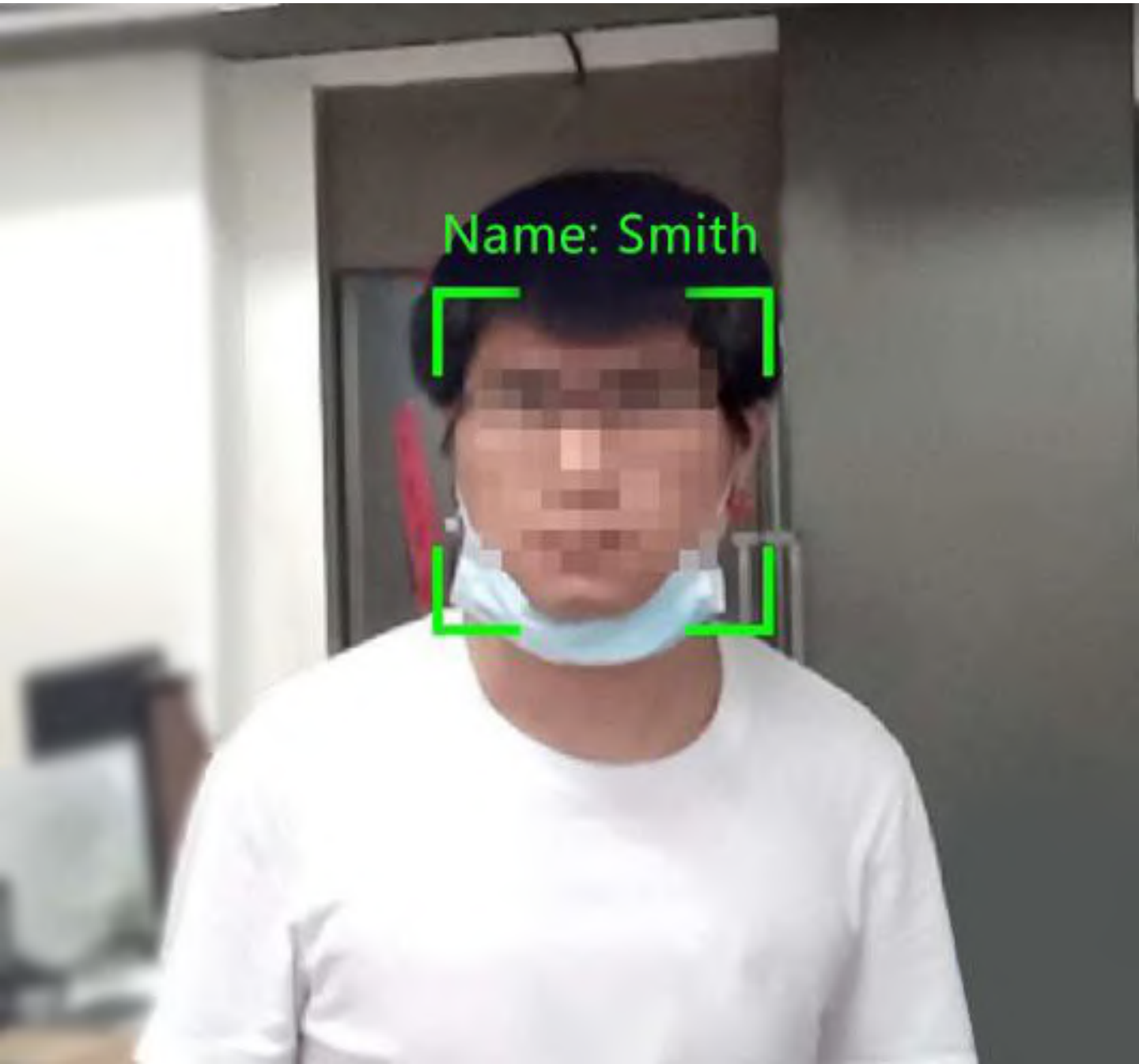
Thermal imaging scanning of industrial facilities or establishments of night places, HVAC equipment, pipelines and electronic equipment, to assist finding target with abnormal temperature or searching for unauthorized person.



FUTURE COOPERATION

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.



FUTURE COOPERATION

Application Scenario

FUTURE COOPERATION

Hospital

Early detection of the fever patients with the quick unaware and contactless temperature measurement and paperless registration to avoid the viral cross-transmission between healthcare professional and potential fever patients.

FUTURE COOPERATION

Office Buildings

Quick unaware and contactless temperature measurement and paperless registration to distinguish potential patients from other employees in a very short of time.

FUTURE COOPERATION

Checkpoints

With the build-in unaware and contactless thermometer, checkpoints for screening patients can be speed up dramatically.

FUTURE COOPERATION

Central Business District

Quick unaware and contactless temperature measurement and paperless registration to distinguish potential patients from other customers in a very short of time.

FUTURE COOPERATION

Product Features

FUTURE COOPERATION

Helmet Body

Advance stab-proof material with energy-absorbing design and ultimate weight reduction

115g (0.25 lb)
helmet shell weight

3kg (6.6lbs)
steel cone

1m (39.3inch)
free falling

1080g (2.38 lbs)
total weight

Impact without damage

FUTURE COOPERATION

Helmet Goggles

Same manufacturing process as helmet goggles for pilots

Advanced photochromic material with multiple protection

All-time capability with lighting conditions self-adaption

Air-borne Droplets

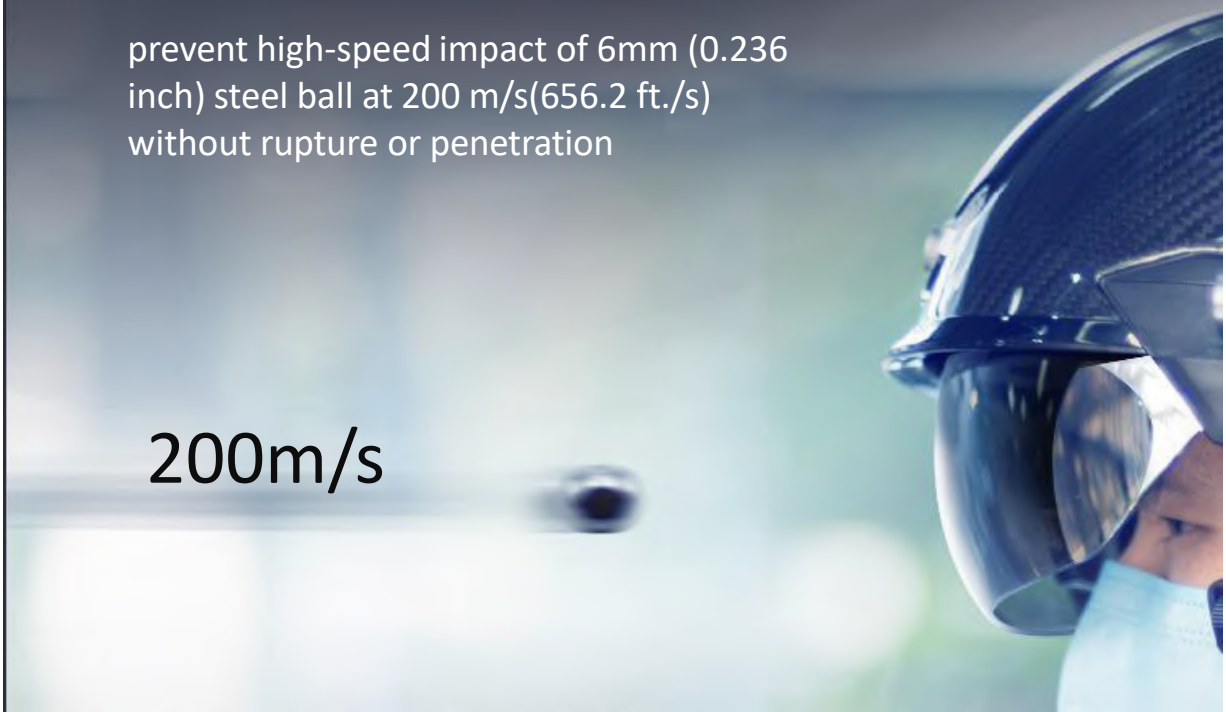
High-Speed Impact

Scratch

Fingerprint

Water Mist

prevent high-speed impact of 6mm (0.236 inch) steel ball at 200 m/s(656.2 ft./s) without rupture or penetration



200m/s

FUTURE COOPERATION

AR Display

High standard array optical waveguide AR technology, 24/7 new visual experience

as watching **74-inch** TV from 3m (118.1 inch) away

field of view: **35°**

No Dark Corner, Blind Spot or Sense of Oppression

Resolution: 1280 × 720

Rated Brightness: 300 nits

FUTURE COOPERATION

Communication

Advance material technology with strong signal, low power consumption and ultra-low radiation

conformal antenna **8-in-1**

Specific Absorption Rate SAR＜

0.05W/kg(**0.023** W/lb)

only **1/20** of mobile phone radiation

FUTURE COOPERATION

Design of Gravity Center Balancing

Refer to the balance **design of aircraft** gravity center

Avoid the formation of cantilever structure in working state, so as to **protect the neck** to the greatest extent and **improve wearing comfort**

the range of the gravity center c.g.diagram < **5** mm (**0.197** inch)

FUTURE COOPERATION

Infrared Thermal Imaging

High-accuracy quick unaware and contactless temperature measurement

Efficiency

200 people/min

Range

-20℃ (**-4**℉) to **120**℃ (**248**℉)

Accuracy

±**0.3**℃

Resolution

384×288

FUTURE COOPERATION

AI Capabilities

Support **offline face recognition and license plate recognition**

Support **QR code identification** for paperless registration

FUTURE COOPERATION

Battery Capacity

no less than

5000 mAh

Standby time

24 h

8 h

Temperature measurement mode [2]

[2]In most cases, we can turn off the AR screen with one key to reduce power consumption when there is no target for temperature measurement, and the measured endurance can reach 8 hours. In the continuous temperature measurement mode, the endurance is about 5 hours.

FUTURE COOPERATION

Ergonomics

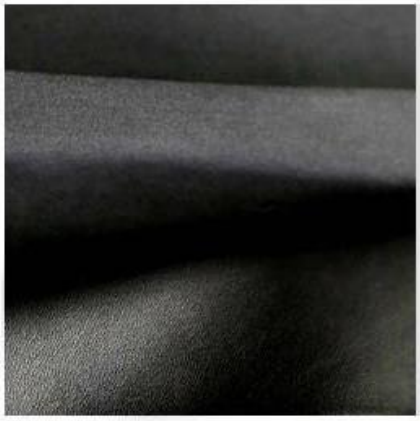
Modified Lycra fabric

High ability to mold to the head

Super stretch and shape retention for extra flexibility

All-day comfort and lasting fit

Advanced nylon laces with high strength



High-grade soft and durable **lamb suede**

Safety magnetic suction buckle can be opened quickly and effortlessly with just **one hand**

FUTURE COOPERATION

Basic Parameters

Basic information	
Processor	ARM Cortex A53 octa-core 2.5GHz
Operating system	Android 8.1
RAM	DDR 4GB
Memory	eMMC 64GB
Weight	1080±10g (2.38±0.022lb)

AR display module	
Display	Array type optical waveguide display
Resolution	1280x720
Field of view	35°
Virtual screen size	Equivalent to watching 74-inch TV from 3m away
Rated brightness	300 nits

Infrared thermal imaging module	
Resolution	384x288
Response band	8μm~14μm
Image frequency-frame	25Hz
Temperature measurement range	-20℃~120℃ (-4°F~248°F)
Temperature measurement accuracy	+0.3℃ within the specified range(2m by default)

FUTURE COOPERATION

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

Protective performance	
Absorbing collision energy	RF electromagnetic field radiated susceptibility
Penetration resistance	Complying with the requirements of penetration resistance test in GA 296-2001
Specific Absorption Rate	SAR < 0.05 W/kg (0.023 W/lb)
ESD anti-interference	Complying with the requirements of ESD anti-interference in GB/T 17626.2-2006
RF electromagnetic field radiated susceptibility	Complying with the requirements of ESD anti-interference in GB/T 17626.2-2006

FUTURE COOPERATION

Future Cooperation Consulting
Alexandras Ave 192A
Tel: +302106401030

www.smarthelmet.gr

www.futurecoop.com

info@futurecoop.com

FUTURE COOPERATION