![unival group logo]

LEADING THE WAY IN THERMAL IMAGING

36.3°C
36.8°C
37.2°C
36.5°C
37.5°C
36.5°C
36.1°C

SATIR

ABOUT unival group

unival® group is a Bonn, Germany based group of companies specialized in governmental and corporate protection. We are operating in more than 35 countries around the world with specially selected and trained unival distributors, who represent our multi-level-protection philosophy.

As a German group we guarantee supreme quality standards, customer-orientated services and highest reliability to our international clientele.

With a strong focus on security solutions for governmental organizations, NGOs and multi-national companies, we develop and manufacture individual products as well as multi-level-security solutions that are customized for the local requirements of our clients.

Our experience and competence of more than 10 years of international business development and transactions guarantee turnkey execution of projects.

THE unival MISSION

To address the rapidly growing asymmetric threats in both the physical and digital worlds, quality and adaptability must be combined in a unique approach. We stand for this as a dynamic company and are able to create unique solution concepts for our clientele. Our aim is always to offer added value that underlines our unique selling proposition.

As a company with a claim to innovation excellence in the security field, we strive to offer our customers future-proof solutions that cover all other physical threats in addition to IT threats.

Internet of Security refers to the intelligent integration and management of security sensors that can be remotely controlled and set from a command center. Security must always be available where it is needed, in real time with a focus on data protection and adequate and sustainable measures. We believe that security is a tool for increasing productivity and providing critical information to prevent threats while ensuring secure processes. Securing the future with a smile.

WHY
unival group?

GERMAN PROJECT MANAGEMENT

CERTIFIED ENGINEERS & PERSONNEL

STRONG LOCAL PARTNERS

SECURITY MADE IN GERMANY

RELIABLE & PROVEN SYSTEMS

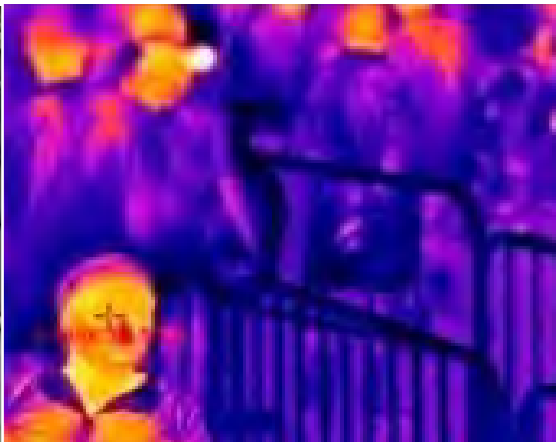COMPETENT AFTER SALES-SUPPORT

MORE THAN 15 YEARS EXPERIENCE

HIGHEST QUALITY STANDARDS

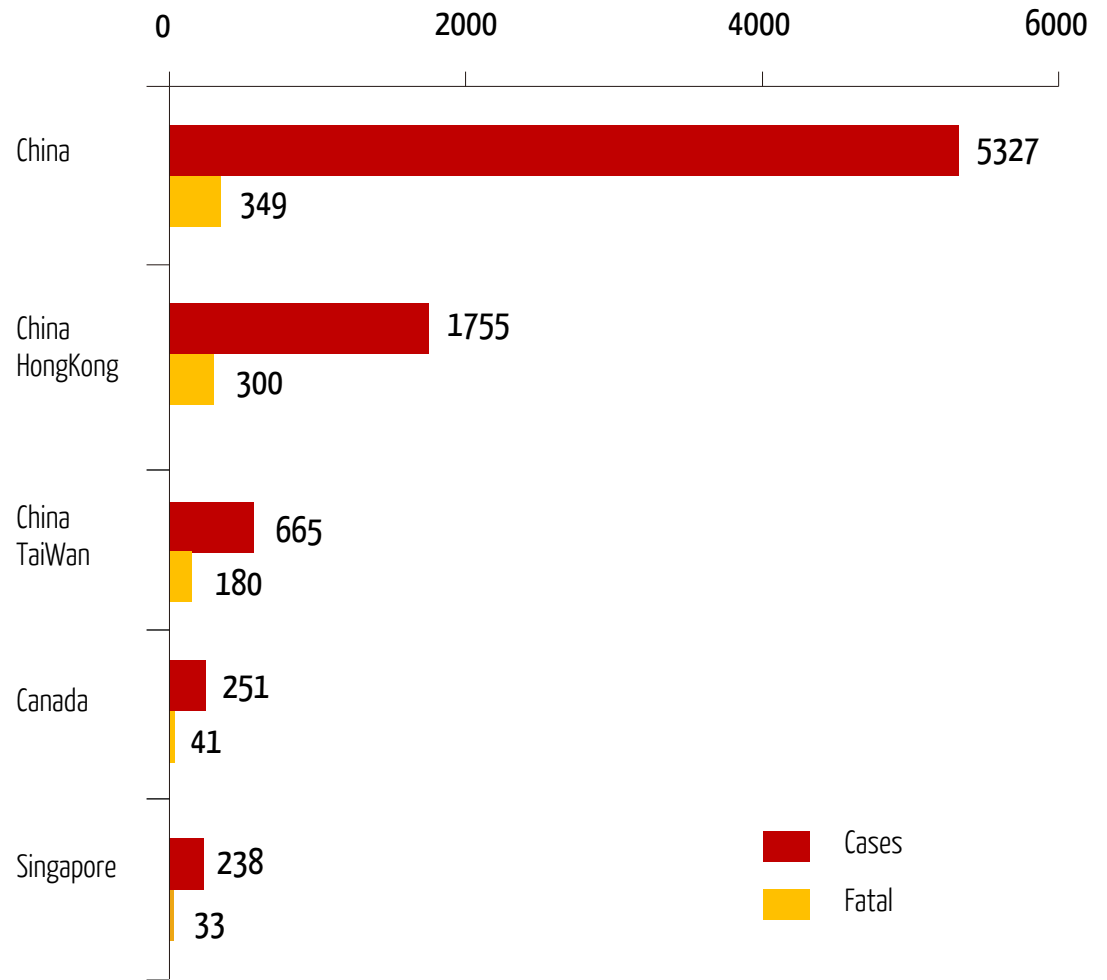OPERATION IN MORE THAN 35 COUNTRIES

FEVER SCREENING SYSTEM | CK350-F

INDUSTRY
BACKGROUND

Infectious Diseases Serious Events

WHO shows in 2003, the SARS epidemic data statistics

DATA UNTIL 11TH JULY 2003

	0	2000	4000	6000

China 5327 / 349

China HongKong 1755 / 300

China TaiWan 665 / 180

Canada 251 / 41

Singapore 238 / 33

Cases
Fatal

EBOLA VIRUS
data statistics

| | 0 | 2000 | 4000 | 6000 |

2014
Cases: 19031
Fatal: 7373

2007 - 2012
Cases: 534
Fatal: 289

2000 - 2005
Cases: 768
Fatal: 495

1994 - 1996
Cases: 460
Fatal: 352

1976 - 1979
Cases: 637
Fatal: 454

Cases
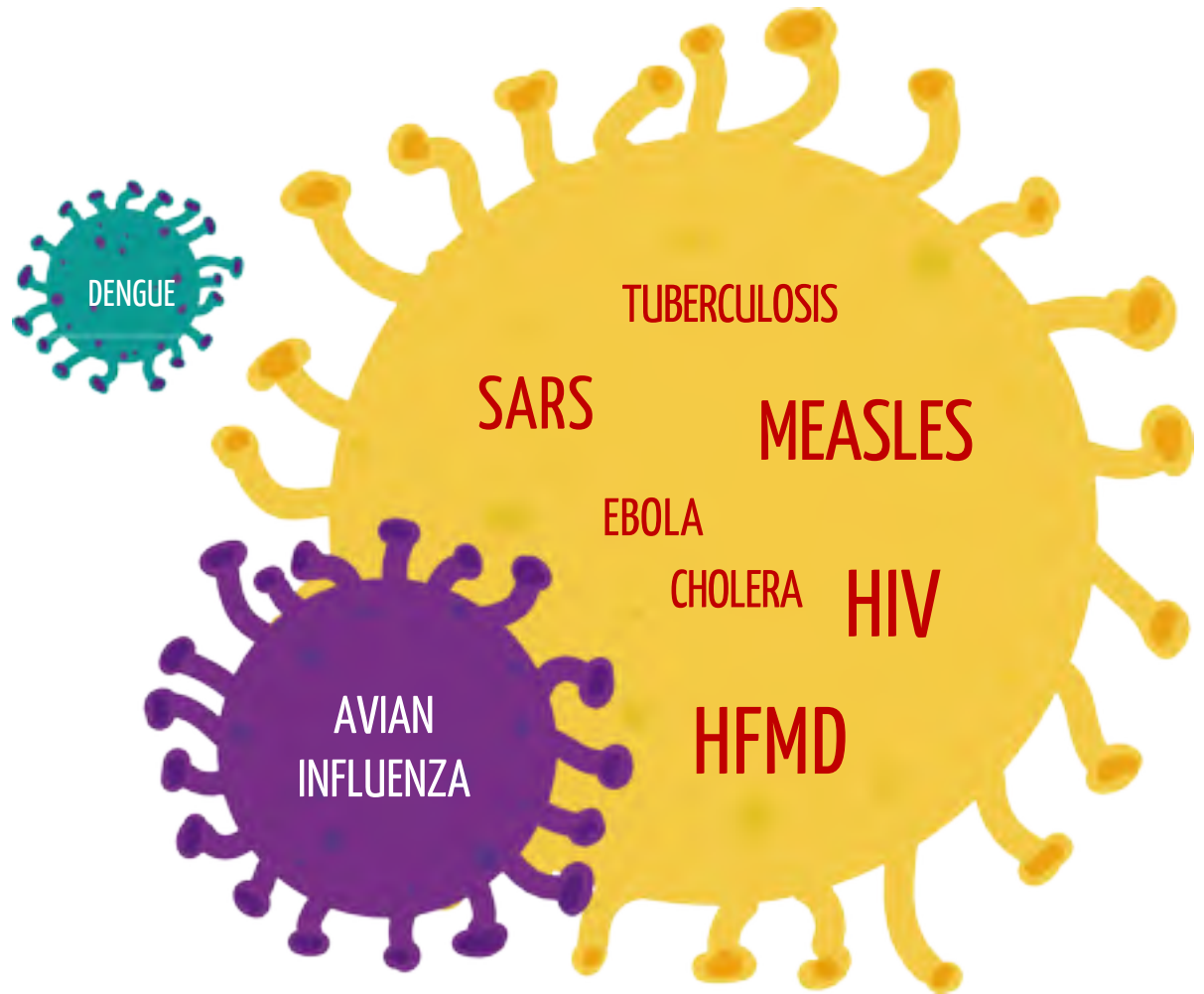
Fatal
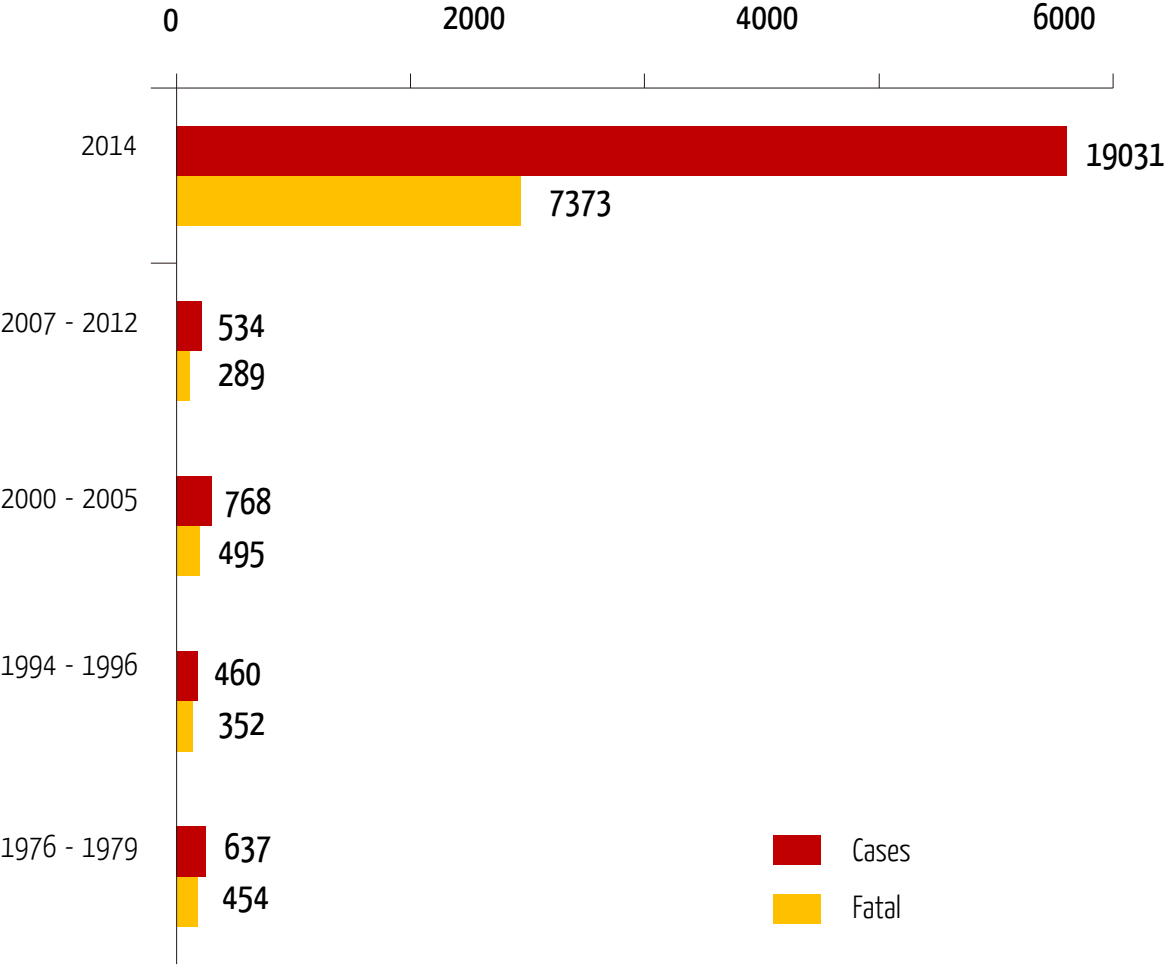
CLOSE CONNECTION BETWEEN INFECTIOUS DISEASES & FEVER

According to clinical manifestations, among the 39 legal infectious diseases in China, 28 have premature fever symptoms

BODY TEMPERATURE MEASUREMENT IS AN IMPORTANT METHOD FOR INFECTION CONTROL

DENGUE

TUBERCULOSIS

SARS

MEASLES

EBOLA

CHOLERA

HIV

AVIAN INFLUENZA

HFMD

PRINCIPLES FOR PREVENTING & CONTROLLING INFECTIOUS DISEASES

EARLY DISCOVERY

EARLY REPORT

EARLY TREATMENT

EARLY ISOLATION

CUT OF THE INFECTION PATH

PREVENT SPREADING

TEMPERATURE MEASUREMENT & FACE RECOGNITION SYSTEM
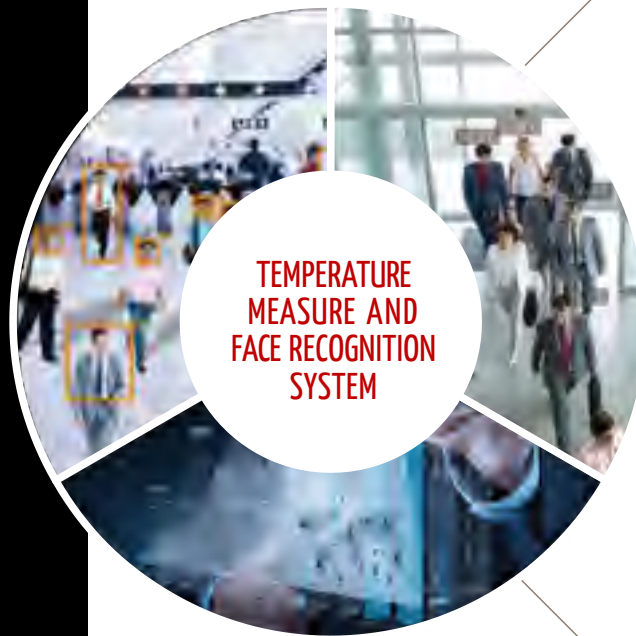
TEMPERATURE MEASURE AND FACE RECOGNITION SYSTEM

INTELLIGENT FACIAL RECOGNITION
- DEEP LEARNING
- QUICKLY TARGETS HIGH OR ABNORMAL TEMPERATURES
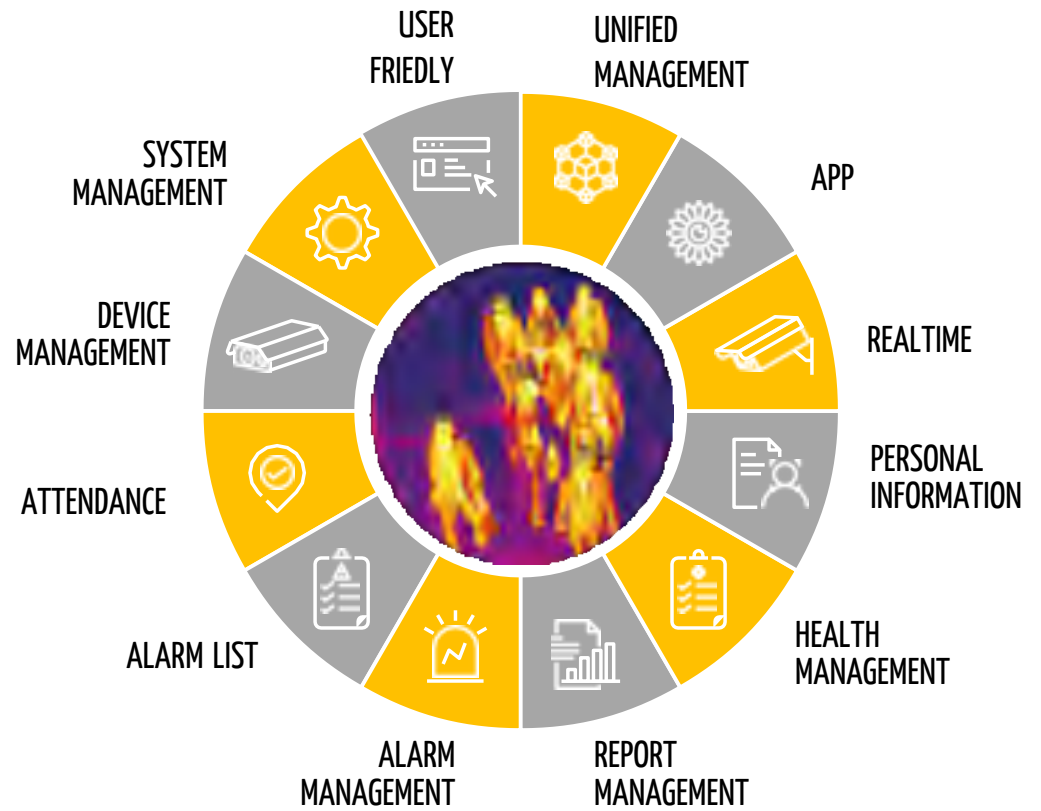
THERMAL TEMPERATURE MEASUREMENT
- ONO-CONTACT TEMPERATURE MEASUREMENT
- QUICKLY MEASURES MULTIPLE TARGETS AT A TIME

BIGDATA ANALYSIS
- HEALTH DATA
- STATISTICS REPORT
- ANALYSIS OF EPIDEMIC TREND

SYSTEM FORMATIONS

- USER FRIEDLY
- UNIFIED MANAGEMENT
- APP
- REALTIME
- PERSONAL INFORMATION
- HEALTH MANAGEMENT
- REPORT MANAGEMENT
- ALARM MANAGEMENT
- ALARM LIST
- ATTENDANCE
- DEVICE MANAGEMENT
- SYSTEM MANAGEMENT

SYSTEM
FUNCTION

Infectious Diseases Serious Events

ONLINE MONITORING FOR RAPID TEMPERATURE MEASUREMENT

- Simultaneous detection of up to16 targets, at 20 fps

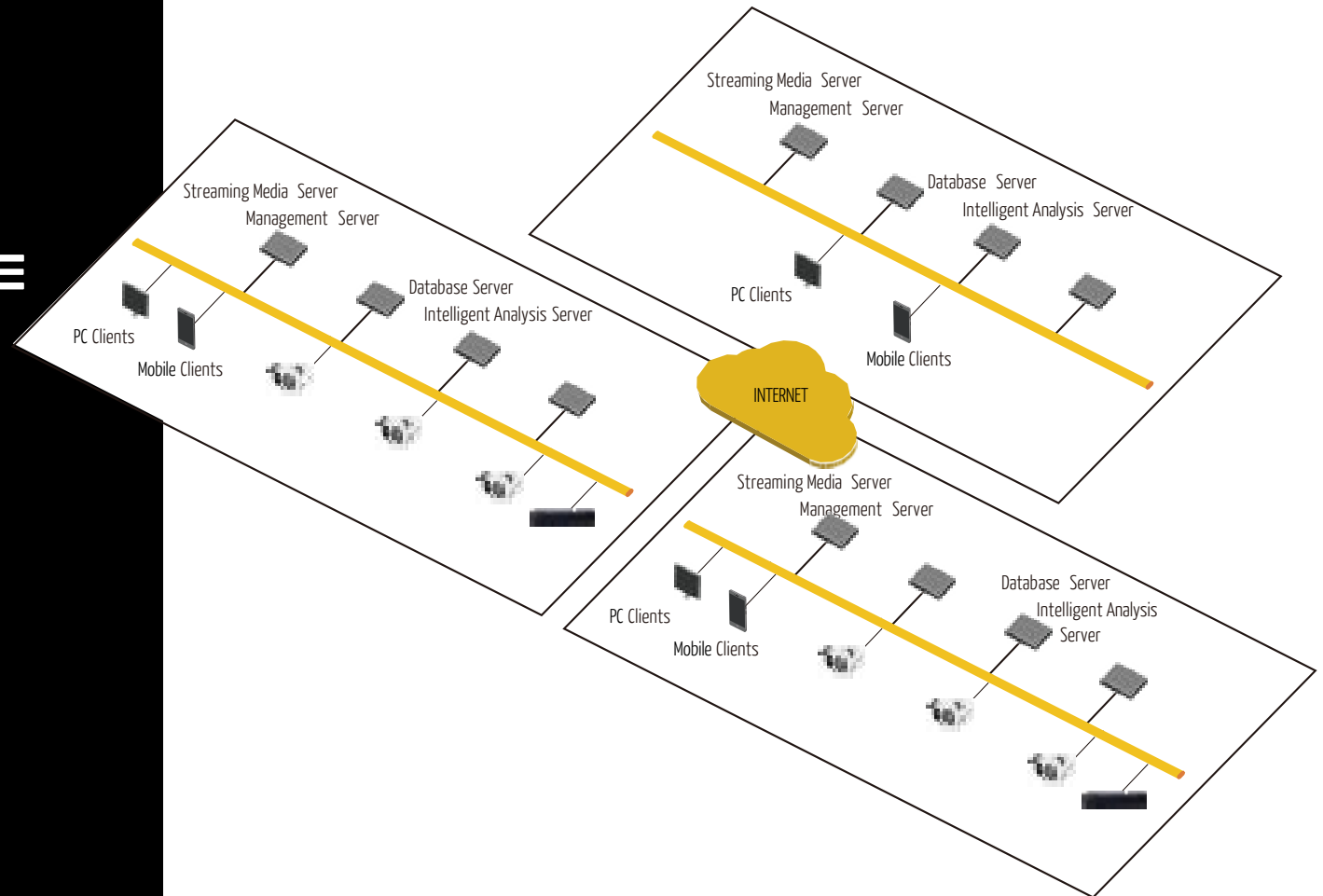- Efficient temperature measurement

ARCHIVES MANAGEMENT

- Data management

- Batch import/ export

- Self-learning algorithm, face library regular update

MULTILEVEL DISTRIBUTION ARCHITECTURE

- 3 levels distribution deployment

- Servers and Clients management based on different project scale
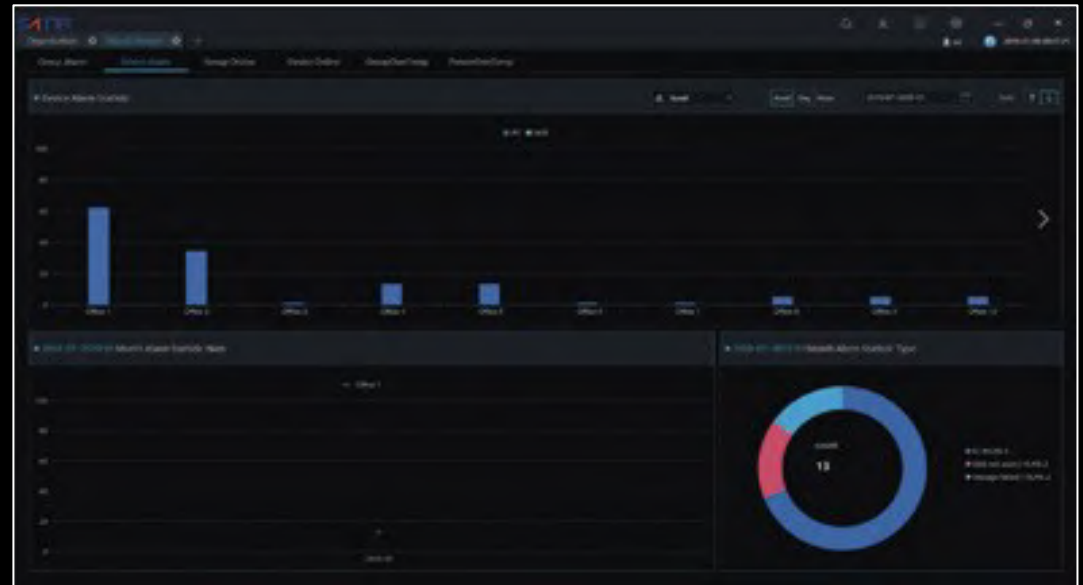
MOBILE APP

- Real-time health data monitoring

- Health data statistics, user receives health report

DATA STATISTICS REPORT

Statistic reports and analysis according to Age/Gender/

Time/Type and illness/Location

PRE WARNING MANAGEMENT

- Face recognition intelligent technology works in combination with temperature measurement technology, it provides the location of the over-temperature target solving a problem when over-temperature target information cannot be confirmed immediately, at the same time camera provides materials for a further supervision and sends a report

- Audio support

SYSTEM MANAGEMENT

System status monitoring, system configuration,
operation log, abnormal log, debug information etc.
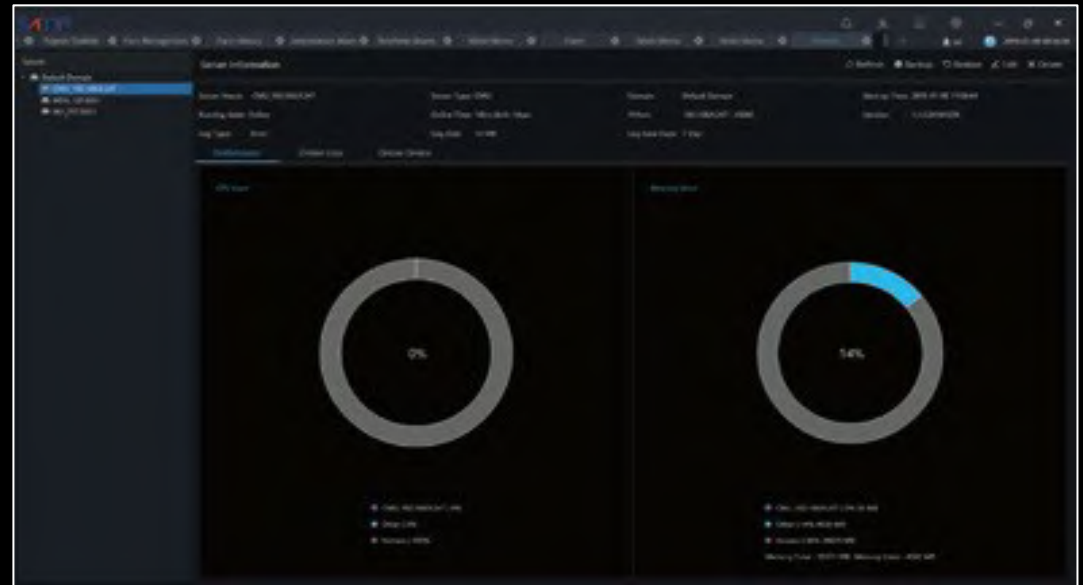
APPLICATIONS

SCHOOL

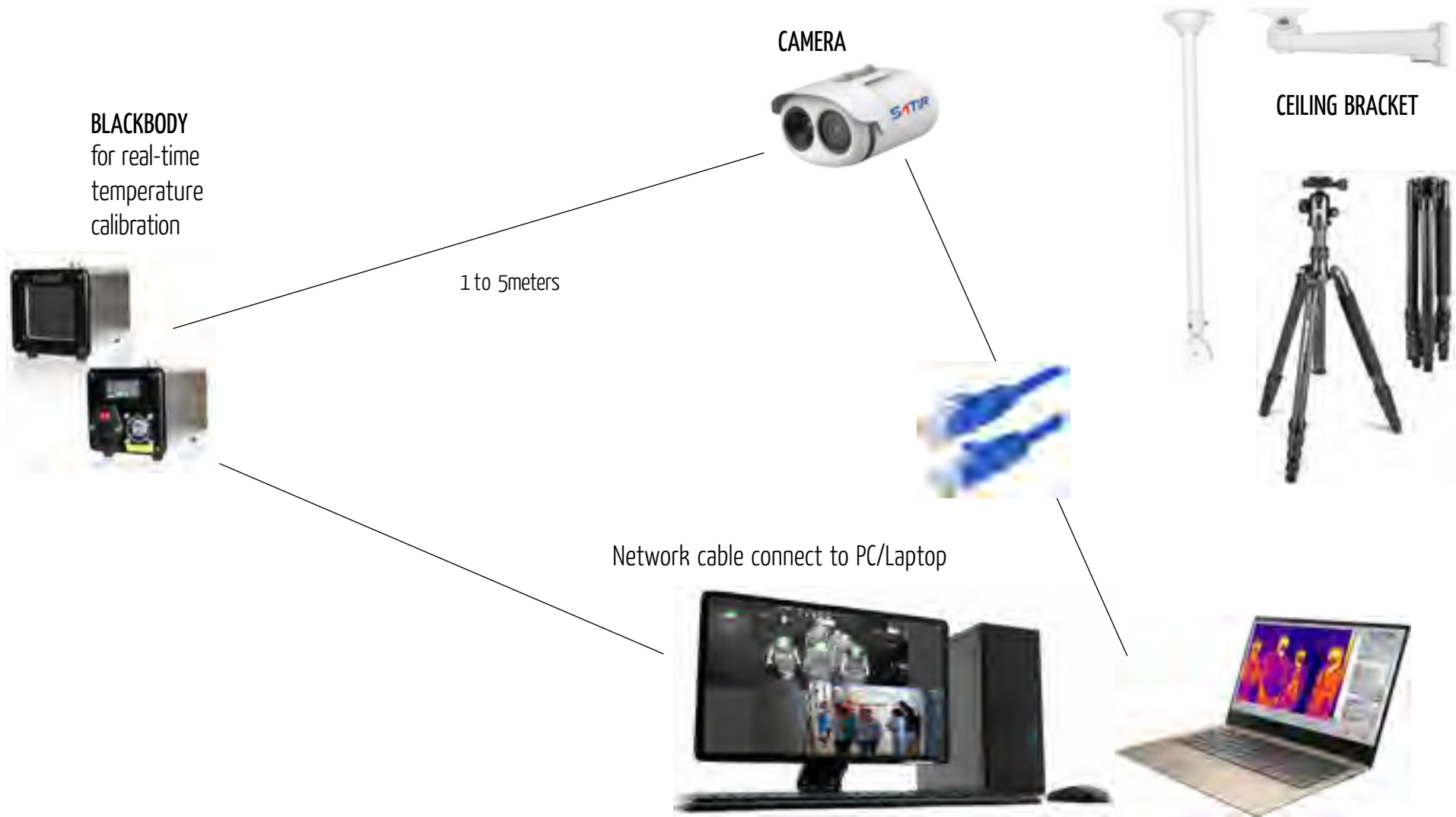
AIRPORT

CUSTOM

HOSPITAL

DORMITORY

LIBRARY

TEACHING BUILDING

SATIR

SOLUTION - EDUCATION

CAMERA

CEILING BRACKET

BLACKBODY
for real-time
temperature
calibration

1 to 5meters

Network cable connect to PC/Laptop

SYSTEM DIAGRAM

SPECIFICATION

Thermal Camera

|	
Detector Type	Uncooled IRFPA Microbolometer
Effective Pixels	384(H) ×288(V)
Pixel Size	17μm
Thermal Sensitivity (NETD)	50mK @F1.0, 300K
Spectral Range	8~14μm
Image Setting	Polarity LUT/ DVE/ Mirror/ FCC/ /3D DNR Brightness/Contrast/ ROI
Color Palettes	Black-Heat /White-Heat/Rainbow/Iron-Red up to 17 modes
Thermal Lens	
Lens Type	Fixed
Focus Control	Manual Focus
Focal Length	8mm
F No.	F1.0
Angle of View	H: 46°, V:35.3°
Visible Camera	
Image Sensor	1/1.9" Sony CMOS
Effective Resolution	1920(H)×1080(V)
Shutter Speed	1/50 ~ 1/64,000s
Wide Dynamic Range	True WDR 120dB
Min. Illumination	Color: 0.01Lux @(F1.2, AGC ON) B/W: 0.001Lux @(F1.2, AGC ON)
S/N Ratio	More than 55dB
Focal Length	2.7 ~ 12mm
Max Aperture	F1.6~ F2.9
Angle of View	105°~ 32°
Focus Control	Motorized

Video and Audio

Compression	H.265, H.264, MJPEG
Frame Rate	Main Stream: Thermal: D1 @25/30fps Visible: 1920×1080/1280×720 @25/30fps Sub Stream: Thermal: CIF @25/30fps Visible: D1/VGA/640×360/CIF/QCIF/QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Thermal: 100Kbps~6Mbps Visible: main stream: 500Kbps~10Mbps; sub stream: 100Kbps~6Kbps
Region of Interest	Off / On (8 Zone, Rectangle)
Digital Zoom	16x
Mirror	Support
Defog	Support
Motion Detection	Support
Privacy Masking	Off / On (4 Area, Rectangle)
DVE Image Enhance	Support
Audio Compression	G.711, AMR, RAW_PCM (Optional)

SPECIFICATION

Intelligence

Intelligent Functions	Motion detection, Disk alarm, I/O alarm, Temperature alarm
IVS	Smart Body Detection, Perimeter ,Single Virtual Fences ,Double Virtual Fences ,Object Left ,Object Removed

Temperature Detection

Detection Mode	Body temperature monitoring
Detection Preset	Max 16 goals
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	≤ 0.3 ℃ (Emission rate, distance, ambient temperature, etc.)
Response Time	≤30ms
Theory of temperature measurement range	-20 ℃ ~ 60 ℃ (-4°F ~ 140°F)
Temperature display mode	Temperature target ＞5℃, Display absolute temperature value; Temperature target ≤5℃, Display relative temperature value (temperature difference DEV = highest value - average)

Network

Ethernet	RJ-45 (10/100Base-T)
Protocols:	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, SIP ,802.1x
Interoperability	ONVIF, CGI, SDK
Streaming Method	Unicast
Max. User Access	10 Users
Edge Storage	NAS Local PC for instant recording Micro SD card 128GB
Web Viewer	<IE11, Chrome, Firefox
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish. Russian, French, Czech, Hungarian

Interface

Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch Audio In,1ch Audio Out
Alarm	2ch Alarm In,2ch Alarm Out
RS485	Support
BNC Output	N/A
Reset Button	Support (Built-in)

General

Power Supply	DC12V/POE (IEEE 802.3af)
Power Consumption	Max 10W
Operating Temperature	-30°C~60°C(-22°F~140°F)
Storage Conditions	0~ 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	212×182×136mm
Net Weight	2Kg

DIMENSIONS (mm)

182.0

136.0

212.0
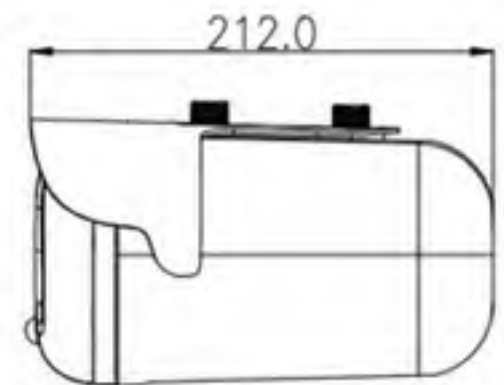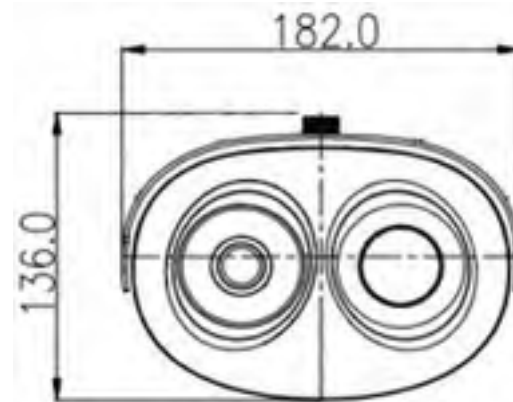
ACCESSORIES

TRIPOD (OPTIONAL)

WALL BRACKET (INCLUDED)

CEILING BRACKET (OPTIONAL)

CK350-F
CEILING BRACKET

FEATURES

- Aesthetic design
- Material: Alloy
- Ceiling mount bracket
- Adjustable length

CK350-F
CEILING BRACKET

SPECIFICATIONS

Ceiling bracket for camera

Supported Models	CK350-F Camera
Material	Alloy
Color	White
Product Dimensions	φ140mm×700mm~φ140mm×120mm
Product Weight	1020g
Max. Load Bearing	5Kg

Ceiling bracket for blackbody

Supported Models	BB350-F (Black body)
Material	Alloy
Color	White
Product Dimensions	φ130mm×700mm~φ130mm×120mm
Product Weight	820g
Max. Load Bearing	5Kg

BLACKBODY

SPECIFICATION

BLACKBODY

SPECIFICATION

Temperature Range	40℃(Ambient temp. +5.0℃to 50℃)
Emissive Area	70mm x 70mm
Temperature Resolution	0.1℃
Accuracy	±0.2℃(@40℃)
Stability	±(0.1~0.2) ℃/30min
Emissivity	0.97±0.02
Power Supply	220V AC 50Hz 50W
Dimension/Weight	W110mm x H120mm x D180mm, 1.8kg
Operating ambient temp.	0℃~40℃/ ≦80%RH
Option	RS485 communication

Note:

Product features: The application of these sources are calibrations of IR thermometers, IR sensors and thermal imagers which are used for human body temperature measurement.

A black body or blackbody is an idealized physical body that absorbs all incident electromagnetic radiation, regardless of frequency or angle of incidence.

It does not only absorb radiation but can also emit radiation. The name "black body" is given because it absorbs radiation in all frequencies, not because it only absorbs.

Blackbody radiation is radiation produced by heated objects, particularly from a blackbody.
A blackbody is an object that absorbs all radiation (visible light, infrared light, ultraviolet light, etc.) that falls on it.

This also means that it will also radiate at all frequencies that heat energy produces in it.

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