Smart Thermal Product Guide

Perimeter Protection

Fire Prevention

Temperature Measuring

CONTENTS

DSI/Sunell Company Profile

DSI/Sunell Technology is a leading provider of intelligent video solutions worldwide, with a European headquarter in Leipzig and multiple offices worldwide. In 2012, Sunell Technology launched its first thermal imaging camera and now has several product lines, including 640 x 512/400 x 300/256 x 192. Sunell's thermal imaging cameras not only meet the needs of high-precision temperature measurements, but also support various in-depth learning processes algorithms to meet the requirements for perimeter intrusion and fire prevention indoors and outdoors, achieving true multi-functional use.

Our Bi-spectrum and a range of Thermal cameras are VdS3189, CNPP and NEN 2535 certified.
For large-scale project requirements, Sunell has powerful management platform software that can offer customers various industry-specific solutions. Furthermore, the cameras are integrated into various VMS and PSIM platforms. The cameras from the Thermal and Bispectral series are specially designed to work and display images under all conditions. The cameras have a thermal and/or visual lens on board with different sizes.
The cameras can recognize heat and smoke over a distance of 292 meters (1x1 m), as well as vehicles and people. In addition to these analytical matters, there are 8 other AI solutions on board.
Ideal for recycling companies but also for solar parks that are often not insured against fire and/or theft incidents. But petrol stations and parking garages also often use this camera to monitor the charging stations of electric cars and to receive a timely alarm in the event of a temperature increase.

DSI/Sunell, "AI + Bi-spectrum" provider of intelligent video solutions!
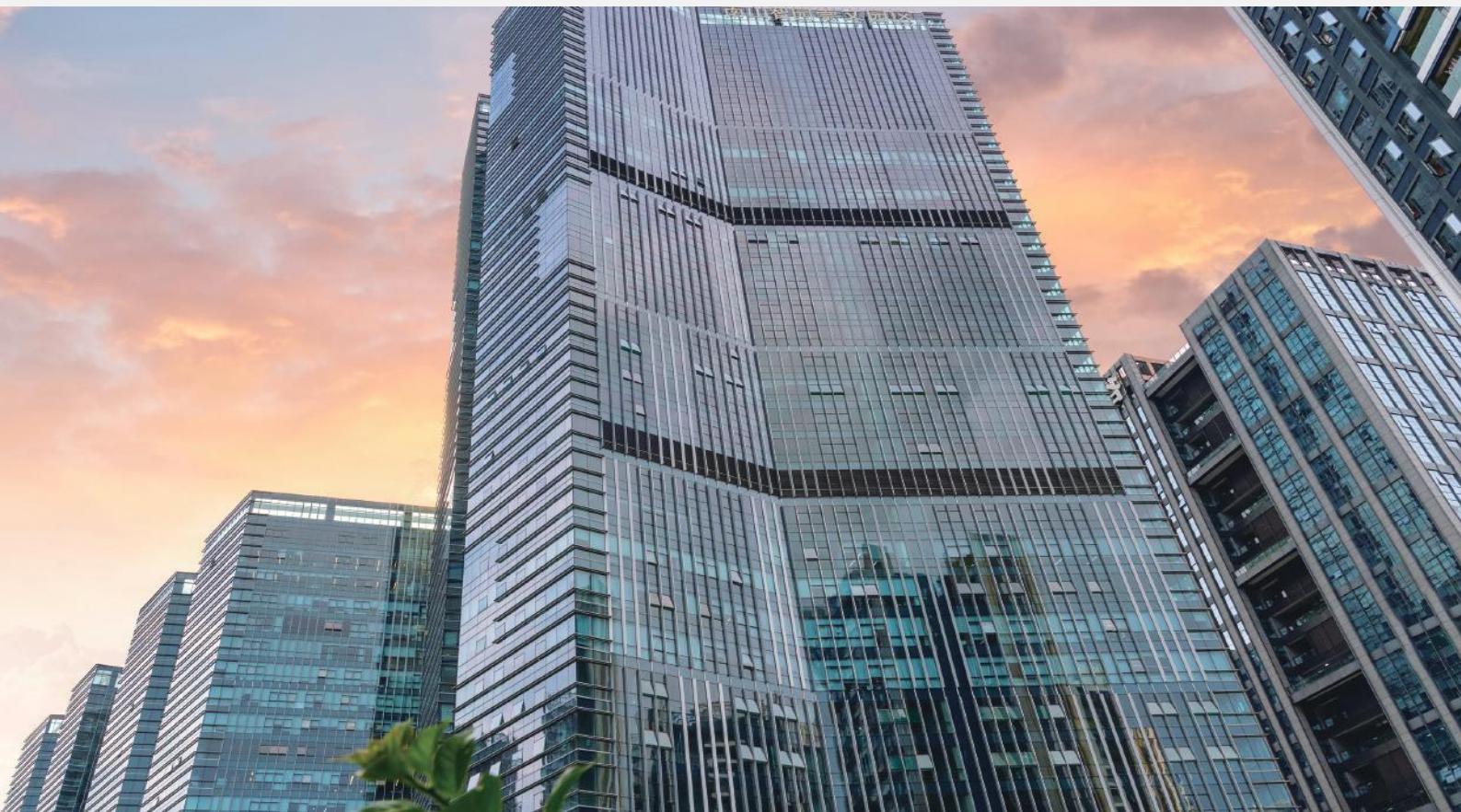
Sunell Thermal Specials and Certificates

All our camera's will be delivered with a full 7 year warranty, have a malwaretag(firm- and software checked for malware), SRTP encryption on board.

The products are procuced without ani chine supplier. We are using the following Suppliers: **NXP SOC**, **OPHIR** Optronics Lenses, The housing is made form **Dillux Steel** and painted with **Sikkens** Rubol Paint. Our power and PoE materials are from **AAEON**. We have our own Microbolometer.

But thats not all.
We are proud of our products and know from experience that they are reliable and safe. In addition to our experiences, we have also had the products tested by third parties and looked at which certificates are important in the world we operate in.

With these certifications you know that our product is safe because the mold and software have been tested by third parties.

Do our products meet the requirements set worldwide or desired in a specific segment? In short, you are assured of a reliable and safe product in the United States and Germany.

CE	FCC	RCM	BSMI	UL	FIPS140-2	TüV	GS	VDS	NEN

EAC	KC	C-tick	TAPA	RoHS	NDAA Compliant	LGC	DGüV	CNPP

Thermal Imaging

Any object with a temperature above absolute zero(-273.15℃) emits a detectable amount of infra-red (IR) radiation, also called heat radiation. The higher an object's temperature, the higher intensity of emitted IR. Though human eyes cannot see it, the thermal imager is able to detect IR radiation of 8~14μm and make the invisible IR "visible". The difference in image details corresponds to thermal distribution on the object's surface, which is "thermal imaging".

Increasing Wavelength (Λ) ➝

Increasing Energy

10^5nm	10^3nm	1nm		10^3nm	10^6nm	1m	10^3m

Gamma rays	X rays	Ultraviolet		Infrared	Microwaves	Radio waves

| 10^{24}HZ | 10^{22}HZ | 10^{20}HZ | 10^{18}HZ | 10^{16}HZ | | 10^{12}HZ | 10^{10}HZ | 10^8HZ | 10^6HZ | 10^4HZ | 10^2HZ |

High frequency

Low frequency

Visible light

7×10^{14}HZ

4×10^{14}HZ
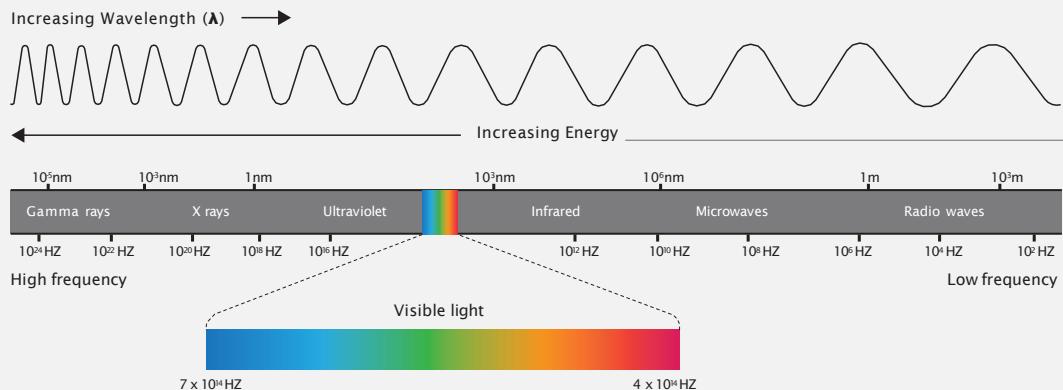
Features

Sharp Image without Light Source

The thermal imager forms an image without any visible light with heat radiation from the environment. Long-distance target is detected by it clearly all day.

Excellent Cloud-and-Mist Penetration

Infrared thermal radiation has better penetration of rain, snow and haze than visible light, so it can take clear images even in bad weather.
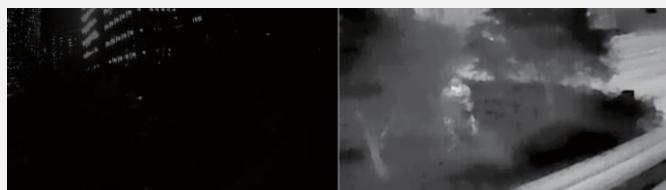
Non-contact Temperature Measurement

Thermal cameras measure accurately the surface temperature of the object by quantifying IR heat radiation without physical contact between sensor and the target.
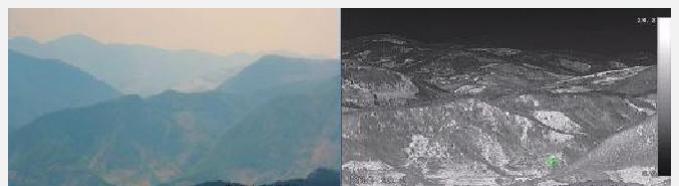
Fault and Defect Detection

If there is malfunction occurred on the target, thermal imagers will find it out in a direct way using non-contact and long-distance temperature measurements.
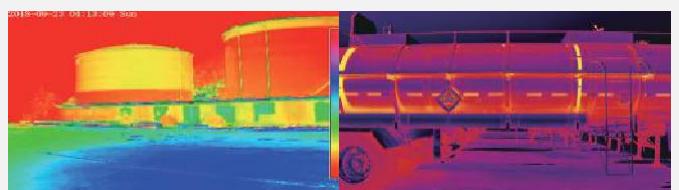
Core Technology

Excellent Image

AGC (Automatic Gain Control)

DDE (Digital Detail Enhancement)
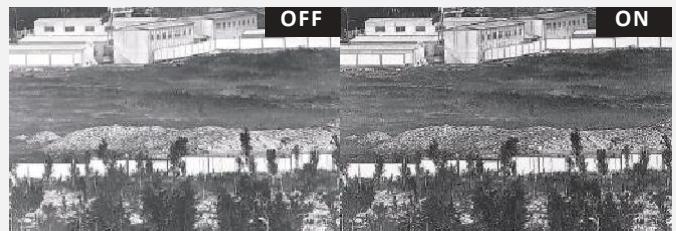

### 3D DNR (3D Digital Noise Reduction)
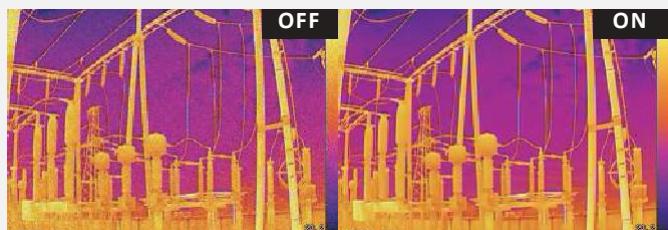
Bi-spectrum Image Fusion
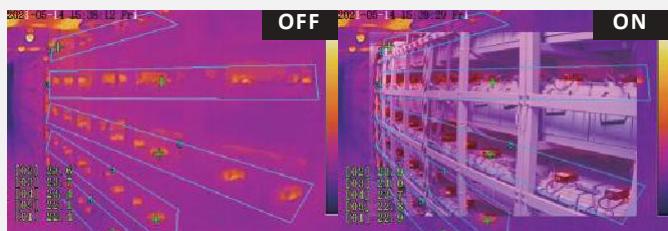
Auto Burning Prevention
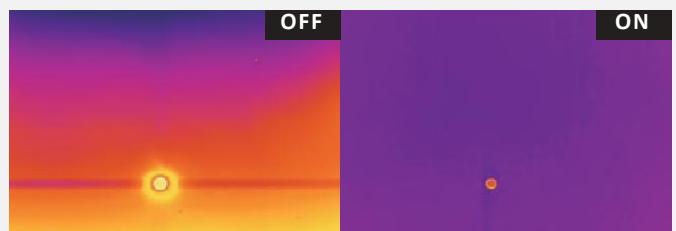
Passive Athermalization
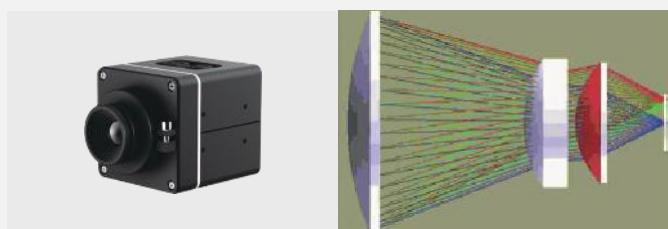
High-sensitivity Vox Detector
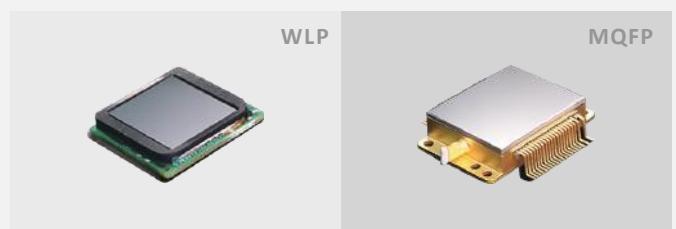
Intelligent Application

Deep Learning

- Human
- Vehicle
- Fire Spot
- Smoking
- Ship

Smart Event

- Intrusion
- Single Line Crossing
- Double Line Crossing
- Loitering
- Wrong-way
- Enter Area
- Leave Area
- People Counting

Active Deterrence

Built-in sound and strobe-light alarms, voice content can be customized
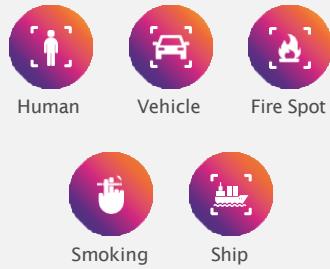
Multiple-scenarios application

Temperature Measurement

7 x 24 Perimeter

Detection Area

Fire Prevention

Compatibility

ONVIF CGI SDK CIP Modbus OPC

Systeem Structure

Mobile Client
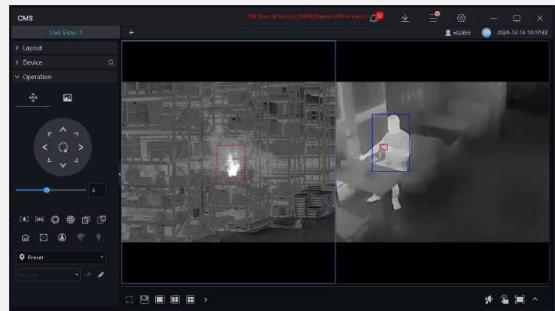
Beheerder

Onder werktijd kan de verantwoordelijke in de controlekamer temperatuuralarmen ontvangen en ze direct verifiëren via camerabeelden.
Dit wordt geregeld door het VMS pakket of onze eigen VMS Pakket Sunview.
Dankzij deze link kunnen alle alarmen en videobeelden ook op een mobiele telefoon of tablet ontvangen worden.

Buiten werktijd worden temperatuuralarmen doorgestuurd naar een (externe) meldkamer, waar het alarm via live beelden wordt geverifieerd.
Op basis van de thermische beelden kan er in de meldkamer bepaald worden wat de bron is van het temperatuuralarm en of er actie ondernomen moet worden.

Centrale verwerking
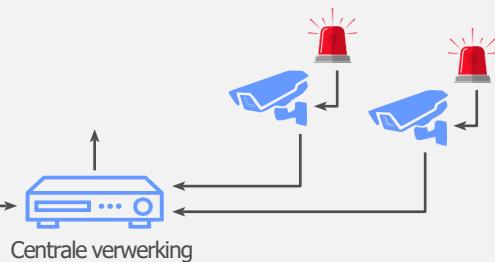
Bestuurbare PTZ-camera voor optische verificatie en monitoring

Flitsers & sirene

Thermische camera
stuurt flitsers & sirene aan voor lokale alarmering
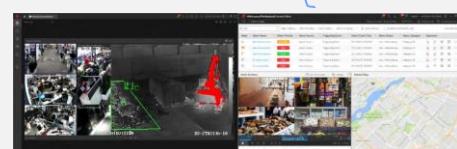
Buiten werktijd worden alarmen door meldkamer geverifieerd

SunView Management Platform

SunView Composition

Server

LAN
Internet

APP

Client
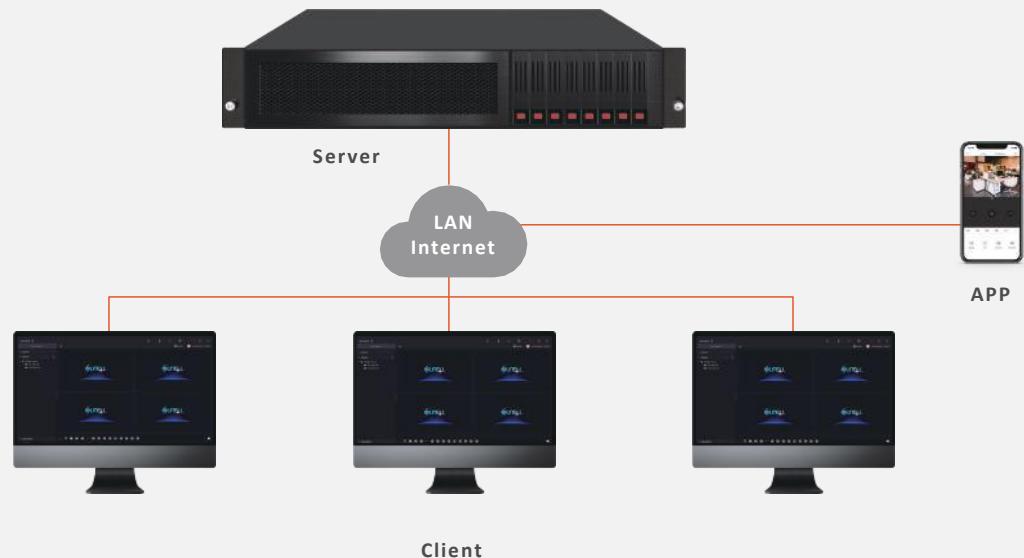
SunView Function Module

Plate license Recognition

User Management

Group

Temperature Management

Alarm Research

Live View

Real-time Alert

Playback

SunView

Statistic Statement

Server Management

E-MAP

Device Management

Attendance Management

Layout

Smart Search

Face Recognition
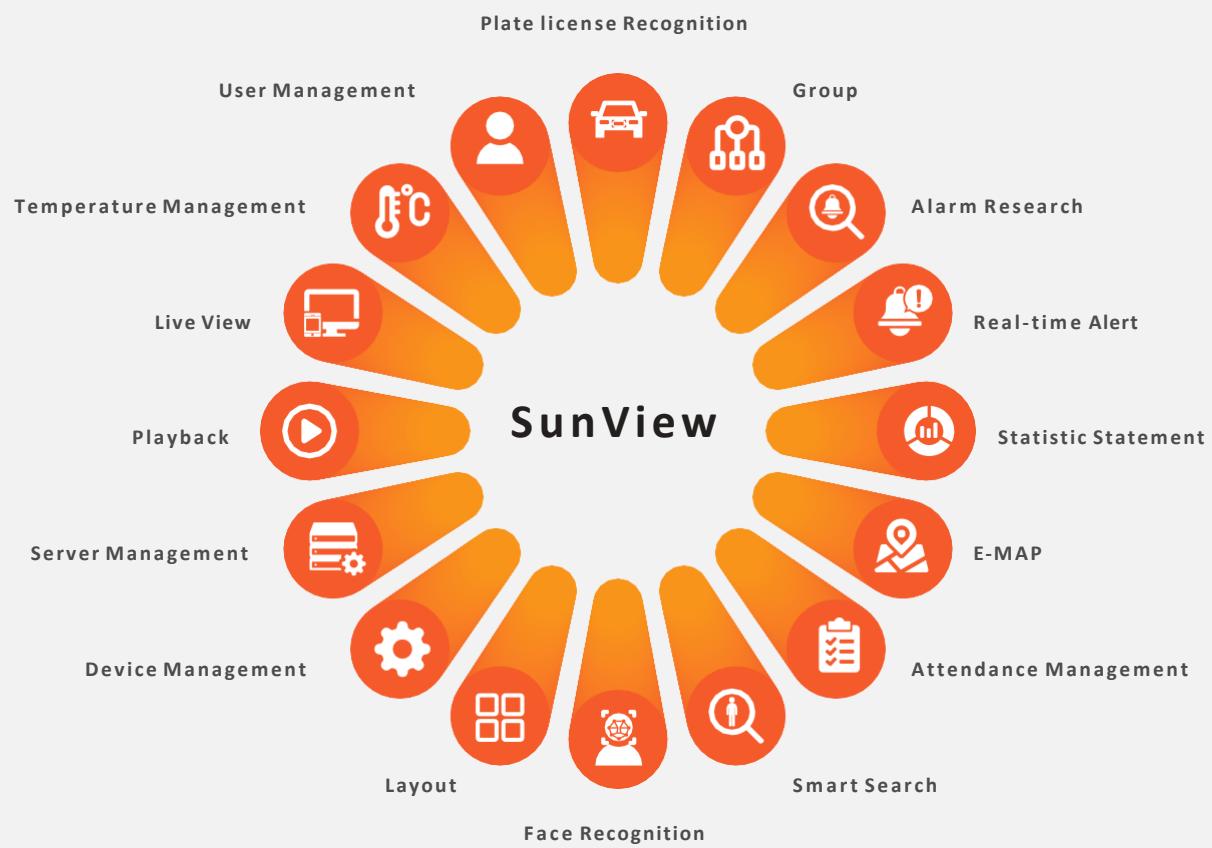
Integration with Third Party VMS and PSIM Suppliers

Onvif

V21.12

IPC: 21.12, Profile S/Profile T/Profile G/Profile M
NVR: 21.12, Profile S/Profile T

Third Party Integration

But there are more integration already done.
More then 462 integrations with all kind of suppliers of software, convoyer, recyclingpartners etc.

Perimeter Monitoring
√ Human & vehicle detection
√ Wildlife protection
√ Bird Perching Detection
√ Sound and light alarm

Photovoltaic Panel Inspection
√ Foreign object blockage
√ Appearance damage
√ Backflow

Photovoltaic Step-Up Station
√ Transformer online temperature monitoring

Fire Detection
√ Smoke detection
√ Fire point detection
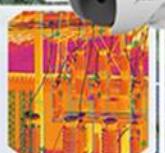
Inverter and Combiner Box
√ Temperature monitoring

Photovoltaic Storage Cabinet
√ Temperature monitoring
√ Smoke detection

Perimeter Protection

Solution Value

Thermal cameras are able to achieve all-weather monitoring for perimeter intrusion detection. Even in rain, snow, or fog weather, a target from a long distance does not easily hide from it. Built-in deep learning algorithm enables fewer thermal cameras to perform smart perimeter protection of large coverage and long range.

High Accuracy

With a built-in deep learning algorithm, thermal cameras can accurately detect humans, vehicles, and ships, and effectively reduce false alarms caused by animals, vegetation, and weather.

Hidden Target Detection

Thermal cameras effectively detect an target behind the vegetation or in the dark.

Bi-spectrum IVS

AI+ Bi-spectrum meets real all-weather monitor without blind spots.

Wider Range

Compared with optical lenses, thermal imaging does not require supplemental light. Therefore it is not affected by bad weather, making coverage wider and ranger longer.

Active Deterrence

There are alarm lights and speakers inside thermal cameras; Voice customizable; Real-time sound and light alarms to deter intruders.

Complete Category

Thermal product category is complete to meet short, medium and long perimeter.

Application Scenarios

Short Distance (within 100 m)

High cost-effective; Bi-spectrum: 256 x 192 Thermal+ HD optical;
All-weather smart perimeter protection; Accurate human and vehicle detection; Real-time sound and light alarm

SN-TPC2552CT

SN-TPC2553DRT

Apartments
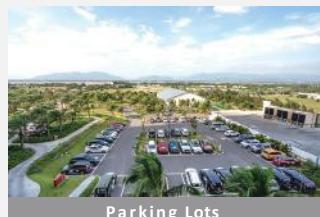
Parking Lots

Factories
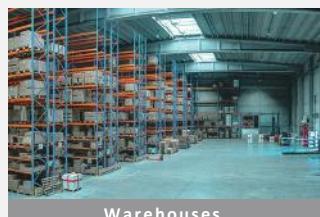
Warehouses

Medium Distance (100~ 500 m)

400 x 300 / 640 x 512 high thermal resolution; Flexible mix: One/ Dual/PTZ thermal cameras optional; Large coverage and all-weather smart perimeter protection

SN-TPC4203KT
SN-TPC6406KT

SN-TPC4203KT

SN-TPT4233LZ
**SN-TPT6436LZ**

Photovoltaic Power Stations

Rivers
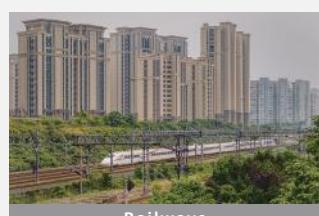
Railways

Steel Industry

Long Distance (over 500 m)

All-weather accurate monitor on large and beyond visual range coverage when deployed at commanding heights; Big scene, but also HD close-up target identification

SN-TPT4233ZZ
**SN-TPT6436ZZ**

SN-TPT4233HZ
SN-TPT6436HZ

Airports
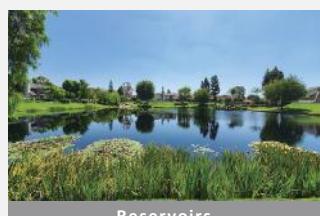
Reservoirs

Basements
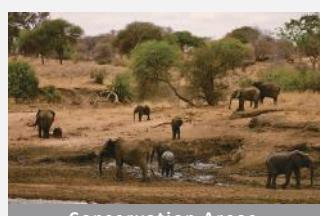
Conservation Areas

Fire Prevention

Solution Value

With Fire Spot, Fire/Smoke, Temperature Threshold, and other temperature alarms, Sunell thermal cameras can give timely alerts to prevent the occurrence, development, or spread of a fire hazard. By giving an early warning signal, a fire hazard can be effectively avoided and the loss caused by it can be reduced.

Fire Spot Detection (Thermal)
By Fire Spot alarm algorithm, thermal cameras can locate fire spots in time and prevent fire from occurrence.

Fire/Smoke Detection (Optical)
Intelligent Fire/Smoke detection allows thermal cameras to activate the alarm as soon as possible when fire or smoke is identified.

Temp Anomalies Detection
Online temperature monitoring can detect the hot spot or quick temperature rising, effectively avoiding fires.

Smoking Detection
Thermal cameras detect cigarette smoking behavior and activate smoking alarms, lowering the fire risk.

Real-time Sound and Light Alarm
There are built-in alarm lights and speakers to notify the temperature alarm; Voice customizable.

Complete Category
Thermal product category is complete to meet short, medium and long fire prevention.

Application Scenarios

Short Distance

Multiple algorithms are supported by one of the above cameras, such as Fire Spot Detection, Fire/Smoke Detection, and Smoking Detection. It can also activate Temperature Threshold and Temperature Rise alarms. In this way, the occurrence of fires can be prevented in time.

SNTPC2552CT **SNTPC2553DRT** **SNTPC4233DJT** **SNTPH4203DA**
SNTPH6406DA

Gas Stations

Battery Warehouses

Data Centers

Warehouses

Museums
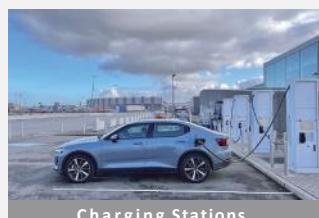
Charging Stations
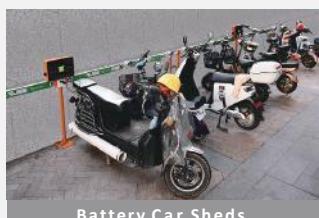
Battery Car Sheds
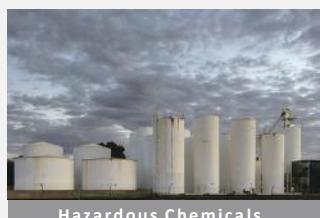
Hazardous Chemicals

Medium and Long Distance

Fires usually happen suddenly and are destructive, which are detrimental to the environment, therefore making fire extinction and rescue hard to proceed. Bi-spectrum PTZ thermal cameras can detect fire spots from a medium and long distance. The administrators can be notified in time with alarms before fires get developed and spread.

Straw Burning

Forest Fire Protection

SNTPT4233LZ **SNTPT4233ZZ** **SNTPT4233HZ**
SNTPT6436LZ **SNTPT6436ZZ** **SNTPT6436HZ**
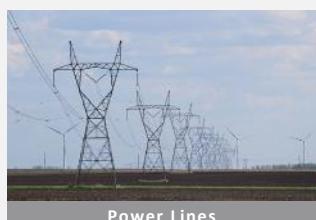
Power Lines

Landfills

Temperature Measuring (Electrical Industry)
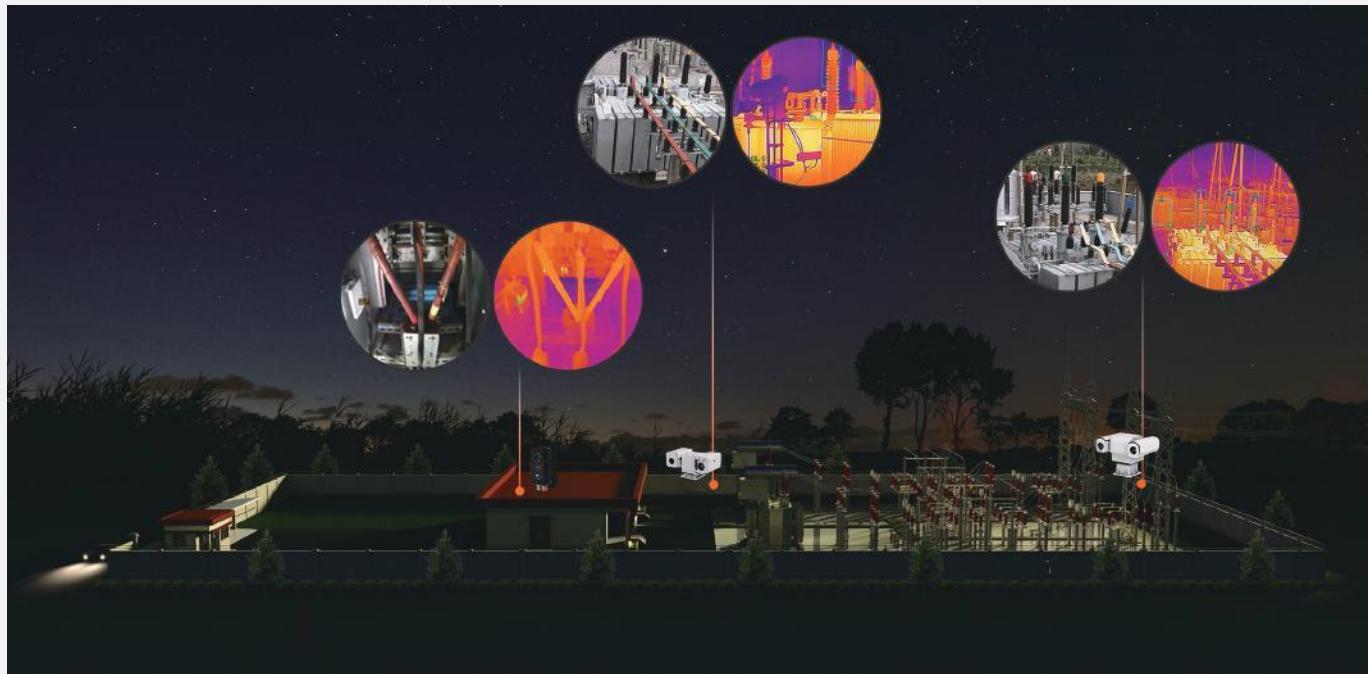
Solution Value

Most of the abnormalities and failures of power equipment are caused by the Heating Effect of Electric Current. If no measures are taken, it is very likely to cause safety accidents. Sunell thermal cameras are widely used in all aspects of electricity generation, transformation, transmission, and distribution in the electrical industry.

Temperature Accuracy
±2°C (±3.6 °F) / ± 2%

Temperature Range Customizable
Default: -20°C~150°C (-4°F~302°F)
Customizable: ≤900°C (1652°F)

Temperature Areas
Support 3 temperature measurement rule types (spot, line, area)

Temperature Alarm Types
Temperature Threshold/Difference/Rise

Worm Gear and Worm Drive PTZ
Thermal PTZ cameras can always locate the position accurately. It will not be affected by external power.

Preset Temperature Monitoring
Thermal PTZ series can monitor the temperature of preset points, which meets the requirement of multi-object temperature measuring in a big scenario.

Inspection Plan
Configure thermal imaging inspection plan, retrieve inspection records, generate inspection report, etc.

Temperature Curve
Sunell SunView platform can retrieve historical data of thermal imaging cameras and area temperature measurements in curves, which provides a basis for judging the operating status of equipment.

Application Scenarios

Transformer Substation

D2/D2L   **SNTPC6406kT**   **SNTPC4233DJT**

Online detection of common faults such as lack of oil in transformer bushings, poor contact of isolating switches and circuit breaker contacts, heating of transformers, capacitors, and lightning arrester joints, etc.
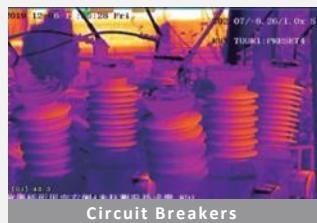
Transformers   **Circuit Breakers**   **Mutual Inductors**   **Isolating Switches**

Electricity Generation

D2/D2L   **SNTPC2552CT**   **SNTPC4233DJT**   **SNTPT4233LZ**
SNTPT6436LZ

Online temperature measurement in coal yards, conveyor belts, coal mills, pulverized coal pipelines, transformers, etc.
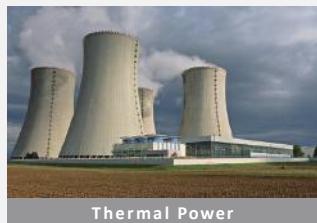
Online temperature measurement of high-voltage electrical equipment such as hydroelectric generator sets and booster stations.
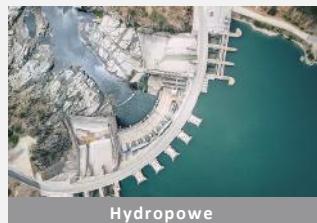
Online temperature measurement of engine room generator set, variable pressure, high voltage switch cabinet, etc.
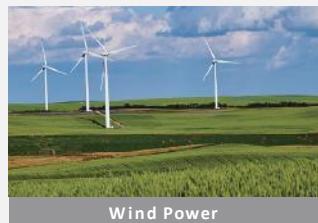
Online temperature measurement of combiner boxes, inverters, booster stations, and other equipment, hot spot detection of photovoltaic modules.
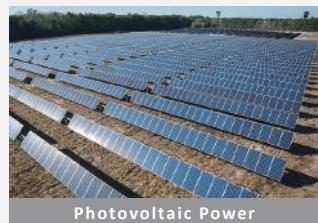
Thermal Power   **Hydropowe**   **Wind Power**   **Photovoltaic Power**

Electricity Transmission

SNTPT4233QF
SNTPT6436QF

Electricity Distribution

D2/D2L   **SNTPC2552CT**   **SNTPT4233QF**
SNTPT6436QF

Detection of the thermometer abnormality caused by oxidation and corrosion of metal fittings or wire clips, loose bolts, poor contact, etc.

Online temperature measurement of high-voltage switchgear busbars, cable joints, etc.
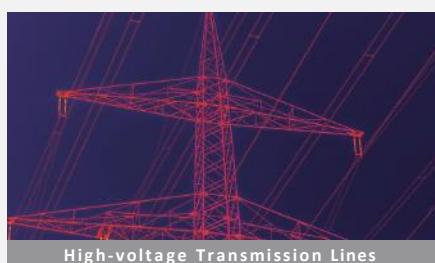
High-voltage Transmission Lines   **Electricity Distribution Room**   **High-voltage Switch Cabinets**
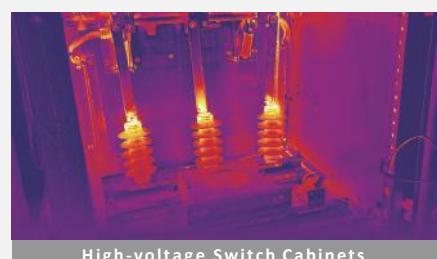
Photovoltaic Power

Solution Value

Photovoltaic power stations occupy a large area, which is generally located in remote areas and have relatively high operation and maintenance costs. By deploying Sunell thermal imaging cameras, management efficiency effectively improves, and long-distance fire points and perimeter intruders can be quickly found. By conducting online temperature measurements, Sunell thermal cameras can detect potential safety hazards of key equipment such as combiner boxes, inverters, transformers, and energy storage cabinets in a timely manner.

Application Scenarios

Perimeter Protection

Sunell thermal cameras can detect intruders (human, animal, etc.) in a long distance by sound and light alarms.
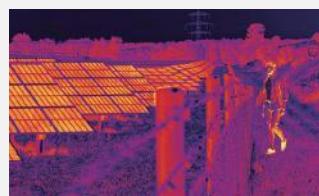
SN-TPC2553DRT   **SN-TPC4233DJT**

Fire Prevention

With Bi-spectrum PTZ series deployed in photovoltaic power stations where there are lots of weeds and trees, fire points can be found swiftly, the detection distance is long and the accuracy is high.

SN-TPT4233LZ   **SN-TPT4233ZZ**
SN-TPT6436LZ   **SN-TPT6436ZZ**

Real-time Temperature Measuring

By conducting online temperature measurements, Sunell thermal cameras can detect potential safety hazards of key equipment such as combiner boxes, inverters, transformers, and breakers in a timely manner.

D2/D2L   **SN-TPC6406kT**

Hot Spot Detection

The thermal imaging PTZ series automatically inspects and captures photos. By temperature difference alarm or manual review, it can help judge the hot spot situation.
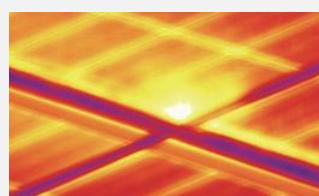
SN-TPT4233LZ
SN-TPT6436LZ

Petrochemical Industry

Solution Value

The industrial chain of the petrochemical industry is very large, including oil exploration, pipelines, chemical plants, oil depots, gas stations, etc. Many places in this industry are characterized by high temperature, high pressure, flammability, and explosion. Sunell thermal imaging is able to monitor the status of equipment online, detect potential safety hazards of equipment in a more timely manner and play an important role in reducing the occurrence of accidents.

Application Scenarios

Perimeter Protection

Theft detection in oil fields and pipelines, etc.
Intrusion detection to prevent accidents in High-risk areas.

SNTPC4233DJT   SNTPH4203DA
SNTPH6406DA

Fire Prevention

Real-time Fire Spot and Smoking alarms to find the potential fire risk and fire situation in hazardous chemical warehouses with raw materials and finished products, non-smoking factory areas, oil depot areas, oil tank areas, gas stations, and other scenarios.

SNTPC2553DRT   SNTPH4203DA
SNTPH6406DA

Real-time Temperature Measuring

Online accurate temperature measurement of refining and chemical equipment, pipelines, station valve hall equipment, electrical equipment, etc.
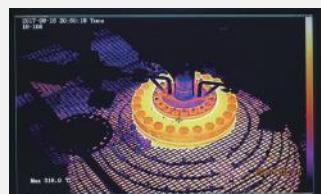
SNTPH4203DA   SNTPT4233PAR
SNTPH6406DA   SNTPT6436PAR

Fault and Defect Detection

Oil storage tank liquid level line, fouling, tank damage, etc. detection.
Detection of pipeline corrosion, leakage, blockage, etc.

SNTPH4203DA   SNTPT4233PAR
SNTPH6406DA   SNTPT6436PAR

Metallurgical Industry

Solution Value

Temperature is an important indicator in many production chains in the metallurgical industry. Sunell Thermal cameras can perform real-time temperature measuring to monitor whether there is any abnormality in the production status. Hidden dangers of equipment can be quickly found by thermal imaging analysis, effectively ensuring normal production and increasing production efficiency.

## Application Scenarios

Real-time Steel Ladle Protection

The thermal imager accurately measures the temperature of the steel ladle, and take clear thermal images, which can visually judge the defects of the ladle lining and analyze the degree of the defect.
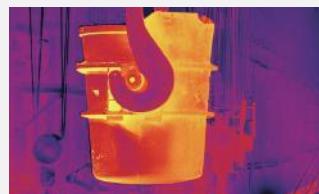
SNTPH4203DA

Electrolyzer Temp. Rise Monitor

Simultaneous temperature measurement of multiple groups of electrolytic cells; Online temperature changes monitoring of the electrolyte and the plate; Sound and light alarm linkage.
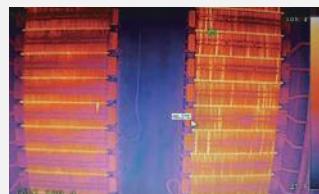
SNTPH4203DA
SNTPH6406DA

Detection of Hidden Dangers

Sunell thermal camera is able to detect hidden dangers of smoldering coal piles and high-temperature anomalies of conveyor belts, which can be linked with spraying for cooling.

SNTPH4203DA

Electrical Equipment Temp. Measuring

Online temperature measurement of electrical equipment such as power transformation and distribution.

D2/D2L   SNTPC6406kT

New Energy Industry

Solution Value

The proportion of sales of new energy vehicles is getting higher and higher, followed by more rapid expansion of power battery-related industrial chains and more frequent occurence of spontaneous combustion accidents. Safety issues are becoming increasingly prominent. Thermal imaging cameras can increase the safety of upstream and downstream enterprises in the new energy industry chain.


Application Scenarios

Raw Material

The electrolyte is volatile and flammable while Sunell explosion-proof thermal imaging is able to perform the fire prevention.
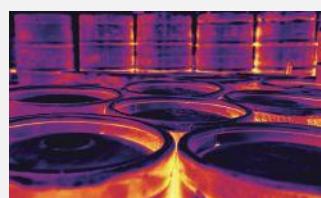
SNTPH4203DA
SNTPH6406DA

SNTPT4233PAR
SNTPT6436PAR

Factories

During the charging and discharging process of the power battery, it may spontaneously ignite due to problems such as the quality of the battery cell and the PACK process. It is very important to know the temperature in real-time. Sunell thermal imager is applicable in production, aging, storage, and other chains to find battery quality defects in time.

SNTPC2553DRT

SNTPT4233QF
SNTPT6436QF

BESS

Real-time simultaneous temperature monitoring of the positive and negative poles of multiple sets of batteries to find abnormal batteries in time.

D2/D2L

SNTPC2552CT
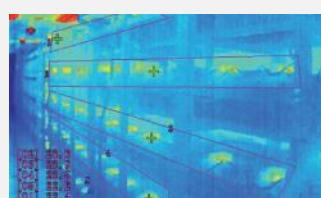
Charging & Battery Swap Stations

Electric vehicle fires frequently occur in areas with huge losses caused by them.
When abnormalities are found by real-time temperature monitoring, Sunell thermal imager can activate the alarm in time.

SNTPC2552CT

SNTPC2553DRT

Water Conservancy Industry

Solution Value

Rivers and lakes are an important part of the natural ecology. The personnels can manage rivers better at night or in bad weather with the help of Sunell thermal cameras to stop environmental damage and crimes in a timely manner.
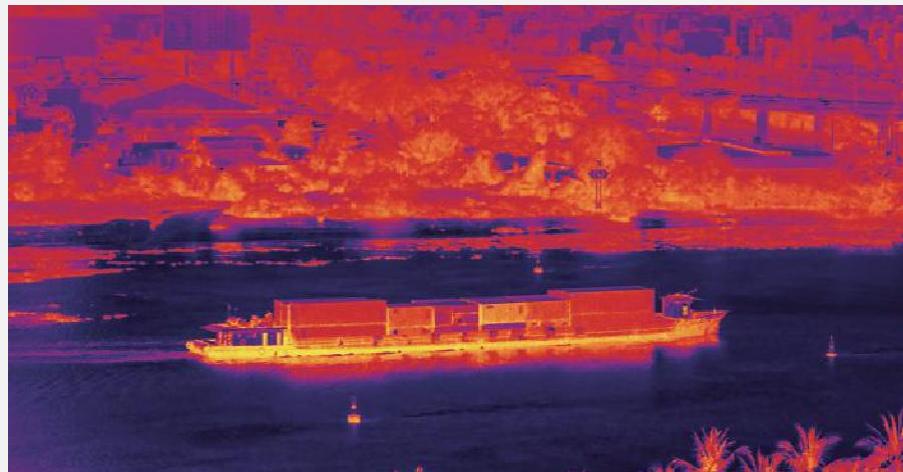
Application Scenarios

Illegal Intrusion

Ship illegal intrusion active deterrence for gates and other waters where ships are prohibited from traveling and stopping.

SNTPT4233LZ
SNTPT6436LZ

SNTPT4233ZZ
SNTPT6436ZZ

Illegal Sand Mining

Illegal sand mining destroys the ecology of the river channel. Sand mining causes uneven river beds and even affects the safety of flood control dams. Sunell thermal imaging can detect illegal mining at night. The detection distance is up to more than 5 kilometers.

SNTPT4233LZ
SNTPT6436LZ

SNTPT4233ZZ
SNTPT6436ZZ

Illegal Fishing

Sunell thermal imaging is suitable for monitoring dangerous or illegal activities, such as illegal fishing during fishing bans, fishing and swimming in reservoirs, etc.

SNTPT4233LZ
SNTPT6436LZ

SNTPT4233ZZ
SNTPT6436ZZ

Illegal Rubbish Dumping

Real-time monitoring of illegal activities such as dumping garbage on the river bank at night. Real-time alarms of vehicles entering the defense area by vehicle shape algorithm.

SNTPT4233LZ
SNTPT6436LZ

SNTPT4233ZZ
SNTPT6436ZZ

Livestock & Poultry Industry

Solution Value

With the heat distribution pattern on the body surface of the individual obtained by Sunell thermal imager, it is helpful to analyze and judge the lesion location and lesion degree.

Non-contact temperature measurement helps avoid individual stress reactions.
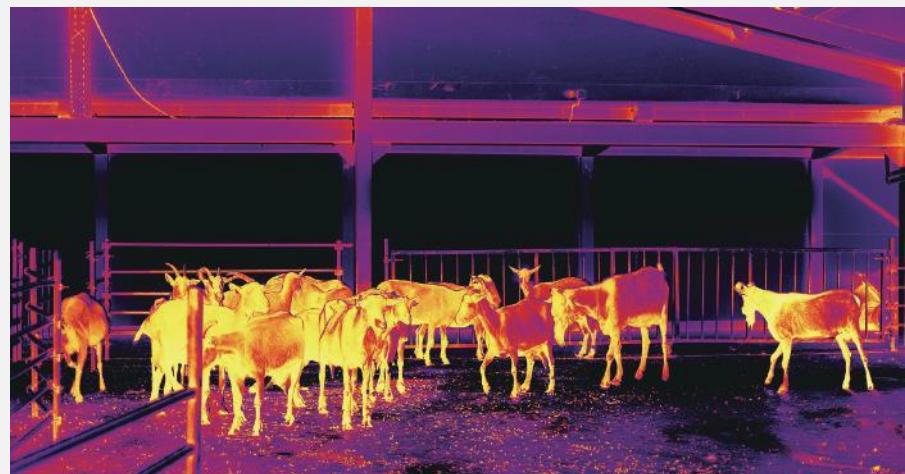
Application Scenarios

Swine Fever Virus

Acute swine fever virus has the characteristics of a short incubation period, high fever, and rapid death. Sunell thermal cameras can monitor pig herd temperature on a daily basis, which can be seen as an early diagnostic tool for swine fever infection.

SNTPC2553DRT   SNT5H

Foot-and-Mouth Disease(FMD)

Foot-and-mouth disease is an acute, febrile, and highly contagious infectious disease common to pigs, cattle, sheep,and other animals, with more than 70 susceptible animals. The disease spreads quickly through many routes. Sunell thermal imaging is believed to be able to detect FMD early by observing hyperthermia.

SNT5H

Bovine Mastitis Disease

Bovine mastitis is a major problem faced by the dairy industry, accounting for more than 40% of cattle morbidity. The disease leads to hypofunction of the mammary glands of dairy cows and even loss of the function of lactation. However, Sunell's thermal imaging camera can detect the disease at an early stage.

SNT5H

Bovine Respiratory Disease (BRD)

The bovine respiratory disease causes serious harm to the cattle industry every year. When the disease occurs, the temperature of the bull's eye will rise.
Sunell thermal cameras can measure the temperature and monitor this disease.

SNT5H

Thermal & Optical Bi-Spectrum Network Cube Camera

SND2L

256×192

Super Wide Angle

Temperature Accuracy

White LED

Dual Image Fusion

IP66

- Thermal: 256×192, 12μm, 2.0 mm, H: 90˚, V:65˚
- Optical: 2MP, 1600×1200, 2.3 mm, H: 100˚, V: 75˚
- Dual Image Fusion
- White LED
- Temp. Accuracy: ±2˚C / ±2%
- Temp. Pre-alarm & Alarm
- Temp. Threshold/Difference/Rise Alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temp. Range: -20˚C~150˚C
- Interface: 1Alarm In/Out, RS485/232, Micro SD card
- DC10~30V/POE(802.3af)
- IP67

Application Scenarios

High voltage switch cabinet and other industrial temperature measurement scenarios with narrow space.

256x192

`12μm`

Human: 1.8×0.5 m
Vehicle: 4×1.5 m
Fire: 1×1m

● Detection ● Recognition ● Identification

3.5 mm

Human: 146m / 36m / 18m
Vehicle: 447m / 112m / 56m

7 mm

Human: 291m / 73m / 37m
Vehicle: 894m / 224m / 112m

10 mm

Human: 416m / 104m / 52m
Vehicle: 1278m / 319m / 160m

Dimensions (mm)

55, 46, 32, 45, 118, 110.5, 93, 90.5, 100.5
4-Φ4.5
4-M3 Depth 6
1/4-20UNC-2A Depth 8
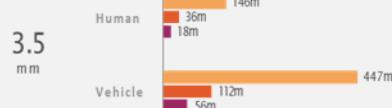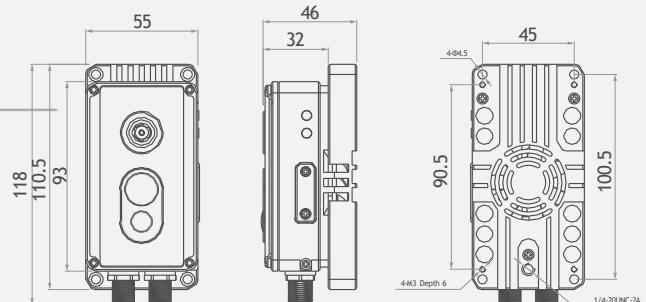
Accessories

Gimbal Mount Bracket

Thermal & Optical Bi-Spectrum Network Turret Camera

NDAA COMPLIANT

SNTPC2553CT
SNTPC2552CT

Parameters vary according to device models.

256×192

Human Detection | **Vehicle Detection** | **Active Deterrence** | **Smoke/Fire Detection** | **Smoking Detection** | **Temperature Accuracy**

- Thermal: 256×192, 12μm, 3.5 mm
- Optical: 5MP, 2880×1620, 4 mm
- Deep Learning: Human/Vehicle/Fire & Smoke/Fire Spot/ Smoking
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Built-in Microphone
- Built-in speaker & alarm light
- 35 m IR
- Temp. Accuracy: ±2°C / ±2%
- Temp. Range: -20°C~150°C
- Interface: 1Audio In/Out, 1Alarm In/Out, RS485, HDMI, Micro SD Card
- DC12V/DC24V/POE(802.3af)
- IP66

Application Scenarios

Perimeter Protection, Indoor Fire Prevention, Industrial Temperature Measuring…

256x192

12μm

Human: 1.8×0.5 m | Vehicle: 4×1.5 m | Fire: 1×1 m

● Detection ● Recognition ● Identification

3.5 mm
Human: 146m / 36m / 18m
Vehicle: 447m / 112m / 56m

7 mm
Human: 291m / 73m / 37m
Vehicle: 894m / 224m / 112m

10 mm
Human: 416m / 104m / 52m
Vehicle: 1278m / 319m / 160m

Dimensions (mm)

Φ140
117.76

70
70
4-Φ4.5
3-Φ4.5
Φ128
Φ120

Accessories

Junction Box	Bracket Mount Adapter	Pendant Mount Bracket	Wall Mount Bracket
SNCBK645D	SNCBK206	SNCBK402	SNCBK501

Wall Mount Bracket	Pole Mount Bracket	Corner Mount Bracket
SNCBK502	SNCBK101	SNCBK102

Thermal & Optical Bi-Spectrum Network Bullet Camera

NDAA COMPLIANT

SNTPC2553DRT

256×192

Human Detection **Vehicle Detection** **Active Deterrence** **Smoke/Fire Detection** **Smoking Detection** **Temperature Accuracy**
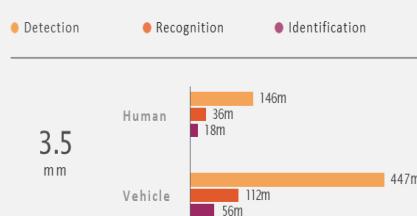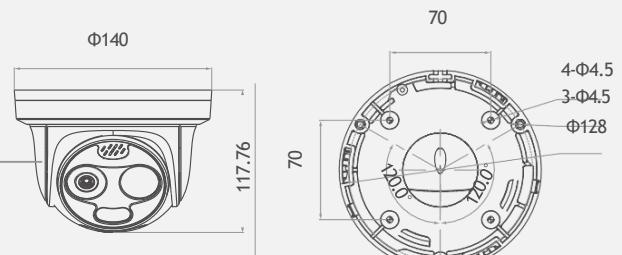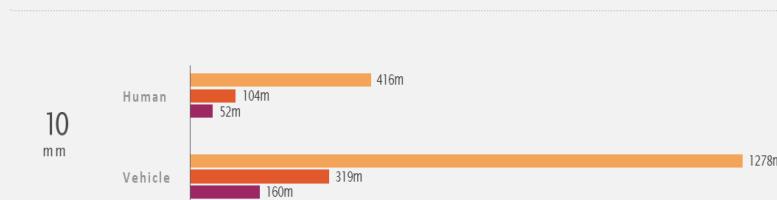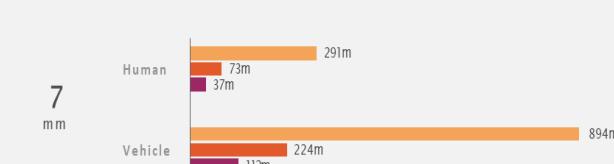
- Thermal: 256×192, 12μm, 7/10 mm
- Optical: 4MP, 2880×1620, 8 mm
- Deep Learning: Human/Vehicle/Fire & Smoke/Fire Spot/ Smoking
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Built-in speaker & alarm light
- LED Temperature Display
- 35-55 m IR
- Temp. Accuracy: ±2℃ / ±2%
- Temp. Range: -20℃~150℃
- Interface: 1Audio In/Out, 2 Alarm In/Out, RS485, Micro SD card
- DC12V/DC24V/POE (802.3af)
- IP66

Application Scenarios

Perimeter Protection, Indoor/Outdoor Fire Prevention, Industrial Temperature Measuring…

256x192

`12μm`

Human: 1.8×0.5 m   Vehicle: 4×1.5 m   Fire: 1×1m

Dimensions (mm)

● Detection ● Recognition ● Identification

3.5 mm
- Human: 146m / 36m / 18m
- Vehicle: 447m / 112m / 56m

7 mm
- Human: 291m / 73m / 37m
- Vehicle: 894m / 224m / 112m

10 mm
- Human: 416m / 104m / 52m
- Vehicle: 1278m / 319m / 160m

273~303 Adjustable
107
275
100
70
70
98
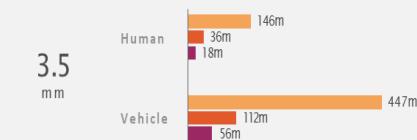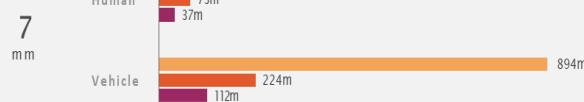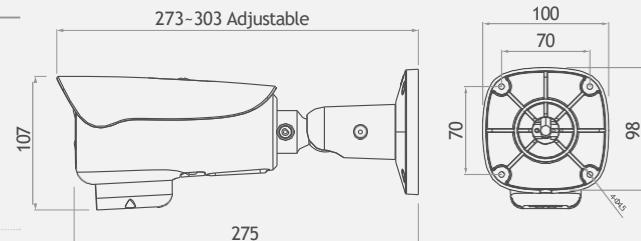
Accessories
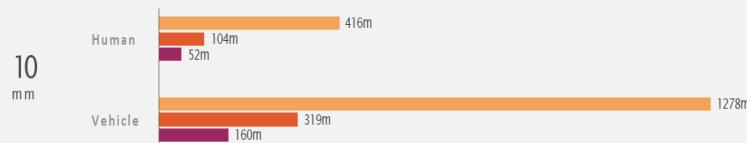
Junction Box
SNCBK649B

Pole Mount Bracket
SNCBK627D

Thermal & Optical Bi-Spectrum Network Bullet Camera

NDAA COMPLIANT

SNTPC4233DJT

400×300

Human Detection

Vehicle Detection

Smoke/Fire Detection

Smoking Detection

POE+

- Thermal: 400×300, 17μm, 8/15/25/35/50 mm
- Optical: 2MP, 1920×1080, Motorized Lens : 5~50 mm
- Deep Learning: Human/Vehicle/Fire & Smoke/Fire Spot/Smoking
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- 100 m IR
- Temp. Accuracy: ±2˚C / ±2%
- Temp. Pre-alarm & Alarm
- Temp. Threshold/Difference/Rise Alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temp. Range: -40˚C~150˚C, Customizable
- Interface: 1Audio In/Out, 2 Alarm In/Out, RS485
- DC12V/POE+ (802.3at)
- IP66

Application Scenarios

Perimeter Protection, Indoor/Outdoor Fire Prevention, Industrial Temperature Measuring…

400x300

17μm

Human: 1.8×0.5 m

Vehicle: 4×1.5 m

● Detection ● Recognition ● Identification

8 mm
- Human: 235m / 59m / 30m
- Vehicle: 722m / 180m / 90m

15 mm
- Human: 441m / 110m / 55m
- Vehicle: 1353m / 338m / 169m

25 mm
- Human: 735m / 184m / 92m
- Vehicle: 2255m / 564m / 282m

35 mm
- Human: 1029m / 257m / 128m
- Vehicle: 3137m / 789m / 395m

50 mm
- Human: 1471m / 368m / 184m
- Vehicle: 4510m / 1127m / 563m

75 mm
- Human: 2206m / 551m / 275m
- Vehicle: 6765m / 1691m / 846m

100 mm
- Human: 2941m / 735m / 368m
- Vehicle: 9020m / 2235m / 1118m

Dimensions (mm)

180.5

126.8

244.8~274.8mm

Accessories

Wall Mount Bracket
SNBK346
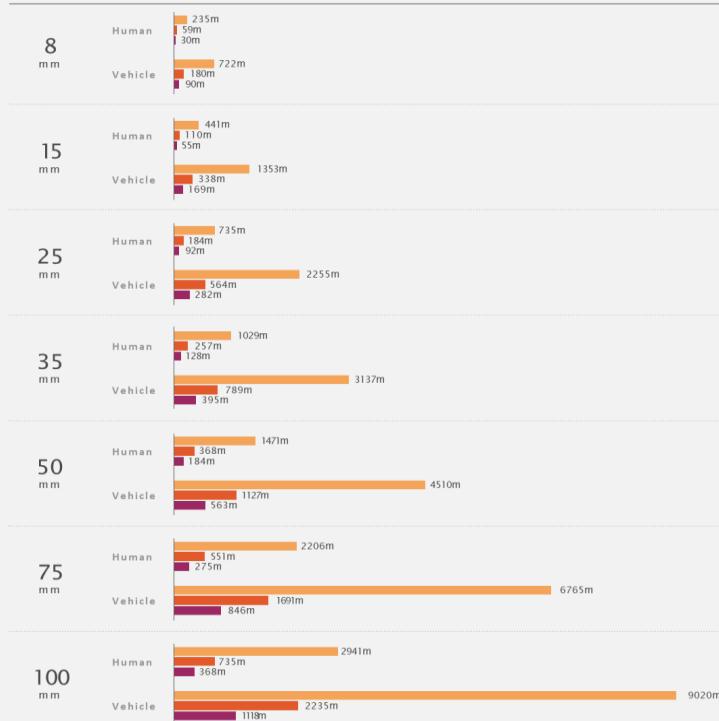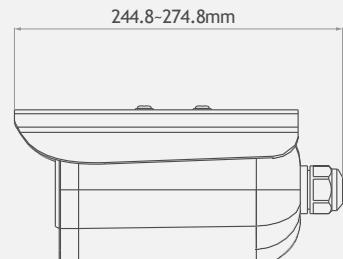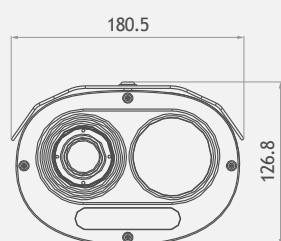
Pendant Mount Bracket
SNBK350

Thermal Network Bullet Camera

SNTPC4207KT

Parameters vary according to device models.

400×300

Human Detection | **Vehicle Detection** | **IVS** | **Temperature Accuracy** | **POE**

- Thermal: 400×300, 704x576, 17μm, 9/15/25/35/50 mm
- Deep Learning: Human/Vehicle/Fire Spot/Smoking
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Temp. Accuracy: ±2˚C / ±2%
- Temp. Pre-alarm & Alarm
- Temp. Threshold/Difference/Rise Alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temp. Range: -40˚C~150˚C, Customizable: ≤900˚C
- Interface: 1Audio In/Out, 2 Alarm In/Out, RS485, Micro SD Card
- DC12V/POE (802.3af)
- IP66

Application Scenarios

Perimeter Protection, Industrial Temperature Measuring...

400x300

`17μm`

Human: 1.8×0.5 m | Vehicle: 4×1.5 m

● Detection ● Recognition ● Identification

| Lens	Target	Detection	Recognition	Identification
8 mm	Human	235m	59m	30m
8 mm	Vehicle	722m	180m	90m
15 mm	Human	441m	110m	55m
15 mm	Vehicle	1353m	338m	169m
25 mm	Human	735m	184m	92m
25 mm	Vehicle	2255m	564m	282m
35 mm	Human	1029m	257m	128m
35 mm	Vehicle	3137m	789m	395m
50 mm	Human	1471m	368m	184m
50 mm	Vehicle	4510m	1127m	563m
75 mm	Human	2206m	551m	275m
75 mm	Vehicle	6765m	1691m	846m
100 mm	Human	2941m	735m	368m
100 mm	Vehicle	9020m	2235m	1118m

Dimensions (mm)

387.6
L
91.3
Φ78
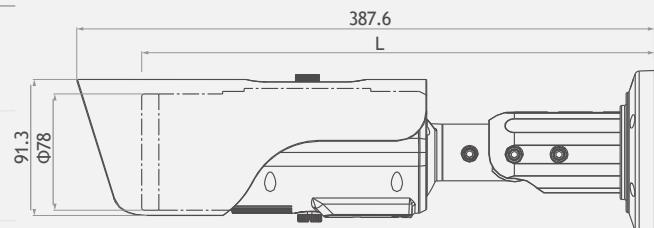
Accessories

Junction Box
SNCBK649B

Pole Mount Bracket
SNCBK627D

Thermal Network Bullet Camera

NDAA COMPLIANT

SNTPC6406KT

640×512

- **Human Detection**
- **Vehicle Detection**
- **Fire Spot**
- **Temperature Accuracy**
- **POE**

- Thermal: 640×512, 12μm, 9/15/25/35/50 mm
- Deep Learning: Human/Vehicle/Fire Spot/Smoking
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Temp. Accuracy: ±2˚C / ±2%
- Temp. Pre-alarm & Alarm
- Temp. Threshold/Difference/Rise Alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Built-in Microphone
- Temp. Range: -20˚C~150˚C, Customizable: ≤550˚C
- Interface: 1Audio In/Out, 2 Alarm In/Out, CVBS, RS485, Micro SD Card
- DC12V/AC24V/POE (802.3af)
- IP66

Application Scenarios

Perimeter Protection, Industrial Temperature Measuring...

640x512

12μm

Human: 1.8×0.5 m

Vehicle: 4×1.5 m

● Detection   ● Recognition   ● Identification

9 mm
- Human: 375m / 94m / 47m
- Vehicle: 1150m / 288m / 144m

15 mm
- Human: 624m / 156m / 78m
- Vehicle: 1917m / 479m / 240m

25 mm
- Human: 1040m / 260m / 130m
- Vehicle: 3194m / 799m / 400m

35 mm
- Human: 1456m / 364m / 182m
- Vehicle: 4472m / 1118m / 559m

50 mm
- Human: 2081m / 520m / 260m
- Vehicle: 6389m / 1597m / 799m

75 mm
- Human: 3121m / 780m / 390m
- Vehicle: 9583m / 2396m / 1198m

100 mm
- Human: 4161m / 1040m / 520m
- Vehicle: 12778m / 3194m / 1597m

Dimensions (mm)

350.9 [13.82"]/387.6 [15.26"]

L

91.3 [3.59"]

Φ78 [3.07"]
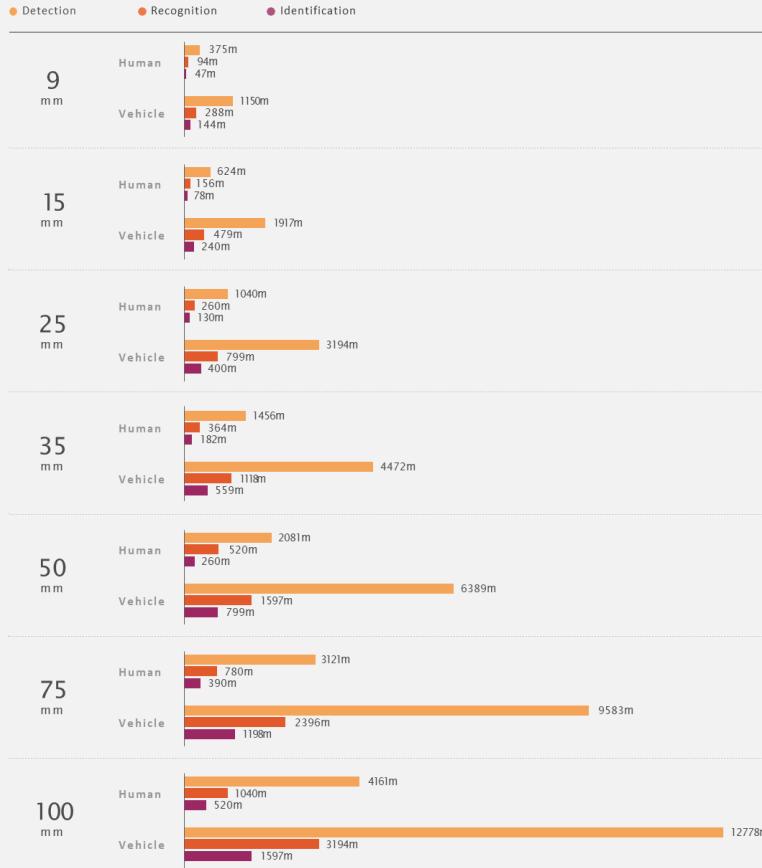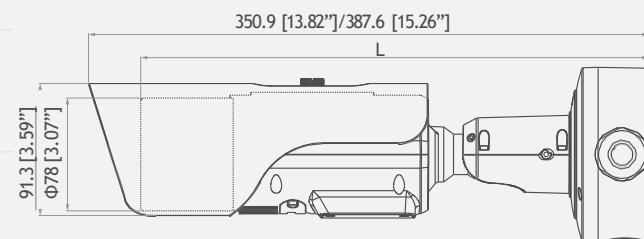
Accessories

Junction Box

SNCBK649B

Thermal & Optical Mini Bi-Spectrum PTZ Camera

SNTPT6436QF
SNTPT4233QF

640×512/400×300

Human Detection | Vehicle Detection | Smoke/Fire Detection | Temperature Accuracy | White LED

- Thermal: 640×512/400×300, 8/9/15/25 mm; Motorized Lens: 25 mm
- Optical: 4MP, 2592×1520, 30X, 5.3~159 mm
- Deep Learning: Human/Vehicle/Fire & Smoke/Fire Spot/Smoking
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Worm Gear and Worm Drive PTZ; Power off Self-locking
- Anti-frozen
- Pan: 360° Tilt: +90°~-90°
- White LED: 30 m
- Support 3 temperature measurement rule types (spot, line, area)
- Preset Point Temperature Measuring
- Temp. Accuracy: ±2°C / ±2%
- Temp. Range: -20°C~150°C, Customizable
- Interface: 1Audio In/Out, 1Alarm In/Out, CVBS, RS485
- DC24V
- IP66

Application Scenarios

Perimeter Protection, Indoor Fire Prevention, Industrial Temperature Measuring…

640x512
12μm

Human: 1.8×0.5 m | Vehicle: 4×1.5 m

● Detection ● Recognition ● Identification

Lens	Target	Detection	Recognition	Identification
9 mm	Human	375m	94m	47m
	Vehicle	1150m	288m	144m
15 mm	Human	624m	156m	78m
	Vehicle	1917m	479m	240m
25 mm	Human	1040m	260m	130m
	Vehicle	3194m	799m	400m
35 mm	Human	1456m	364m	182m
	Vehicle	4472m	1118m	559m
50 mm	Human	2081m	520m	260m
	Vehicle	6389m	1597m	799m
75 mm	Human	3121m	780m	390m
	Vehicle	9583m	2396m	1198m
100 mm	Human	4161m	1040m	520m
	Vehicle	12778m	3194m	1597m

Dimensions (mm)

169.5±1
323±1
123±1

192.5±2
177±1
110±1

125±1
110±0.2
110±0.2
125±1
4-Φ7
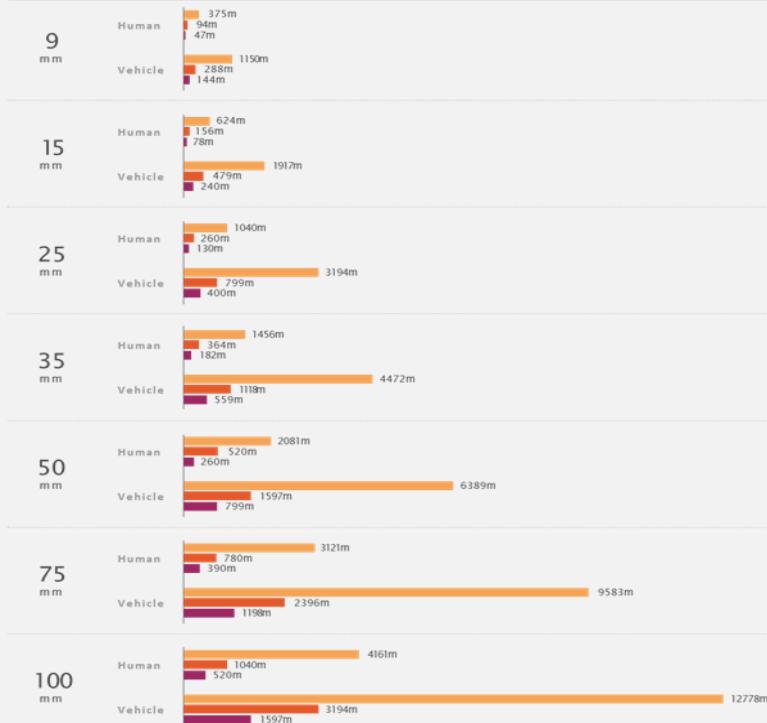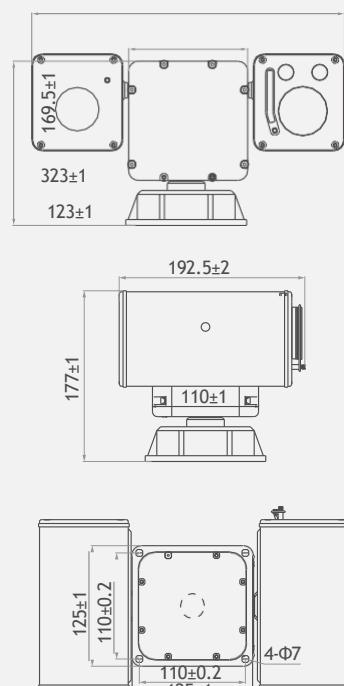
Thermal & Optical Medium Bi-Spectrum PTZ Camera

SN-TPT6436LZ
SN-TPT4233LZ

Human Detection

Vehicle Detection

Ship Detection

Smoke/Fire Detection

Wiper

640×512/400×300

- Thermal: 640×512/400×300, 8/9/15/25/35/50 mm, Motorized Lens: 25/50 mm
- Optical: 4MP, 2592×1520, 30X, 5.3~159 mm
- Deep Learning: Human/Vehicle/Fire & Smoke/Fire Spot/Smoking
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Worm Gear and Worm Drive PTZ; Power off Self-locking
- Anti-frozen
- Pan: 360˚ Tilt: +90˚~-90˚
- Support 3 temperature measurement rule types (spot, line, area)
- Preset Point Temperature Measuring
- Temp. Accuracy: ±2˚C / ±2%
- Temp. Range: -20˚C~150˚C, Customizable
- Interface: 2 Audio In/Out, 9 Alarm In/4 Alarm Out, CVBS, RS485
- DC36V
- IP66

Application Scenarios

Perimeter Protection, Indoor Fire Prevention, Industrial Temperature Measuring…

Dimensions (mm)

419

282

164

4×C7

142

164

142

4×Ø11

316

Φ55

Φ75
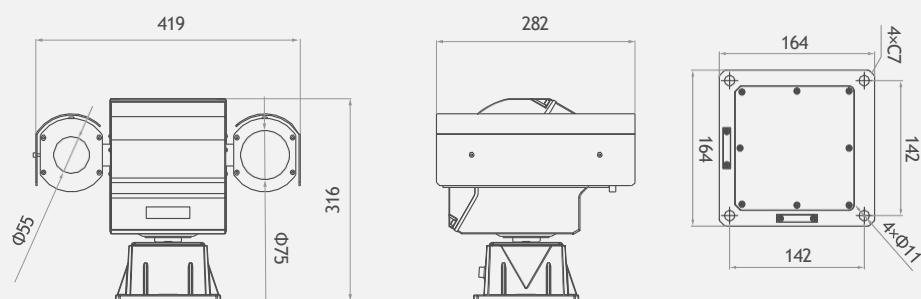
Thermal & Optical Medium Bi-Spectrum PTZ Camera

SNTPT4233LPZ

Human Detection | Vehicle Detection | Ship Detection | Smoke/Fire Detection | Laser IR

400×300

- Thermal: 400×300, Motorized Lens: 75/100 mm
- Optical: 5MP, 2560×1920, 40x, 4.98~199.2 mm
- Deep Learning: Human/Vehicle/Fire & Smoke/Fire Spot/Ship
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Worm Gear and Worm Drive PTZ; Power off Self-locking
- Anti-frozen
- Pan: 360˚ Tilt: +90˚~-90˚
- 800m IR
- Support 3 temperature measurement rule types (spot, line, area)
- Preset Point Temperature Measuring
- Temp. Accuracy: ±2˚C / ±2%
- Temp. Range: -40˚C~150˚C, Customizable
- Interface: 2 Audio In/Out, 9 Alarm In/4 Alarm Out, CVBS, RS485
- DC36V
- IP66

Application Scenarios

Medium Perimeter Protection, Fire Prevention…

Dimensions (mm)

594 · 350 · 337 · 181 210 · 181 · 210 · 4×R10 · Φ60 · 4×Φ10.5
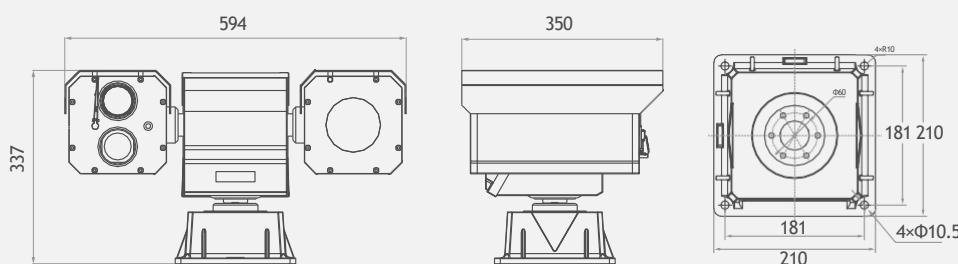
Thermal & Optical Medium Bi-Spectrum PTZ Camera

SN-TPT6436ZZ
SN-TPT4233ZZ

Human Detection	Vehicle Detection	Ship Detection	Smoke/Fire Detection	Wiper

640×512/400×300

- Thermal: 640×512/400×300, Motorized Lens: 50/75/100 mm
- Optical:
  2MP, 1920×1080, 37X, 6~222 mm
  4MP, 2592×1520, 40X, 4.98~199.3 mm
- Deep Learning: Human/Vehicle/Fire & Smoke/Fire Spot/Ship
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area
- Worm Gear and Worm Drive PTZ; Power off Self-locking
- Anti-frozen
- Pan: 360˚ Tilt: +40˚~-75˚
- Interface: 2 Audio In/Out, 9 Alarm In/4 Alarm Out, CVBS, RS485
- DC36V
- IP66

Application Scenarios

Medium Perimeter Protection, Fire Prevention...

Dimensions (mm)
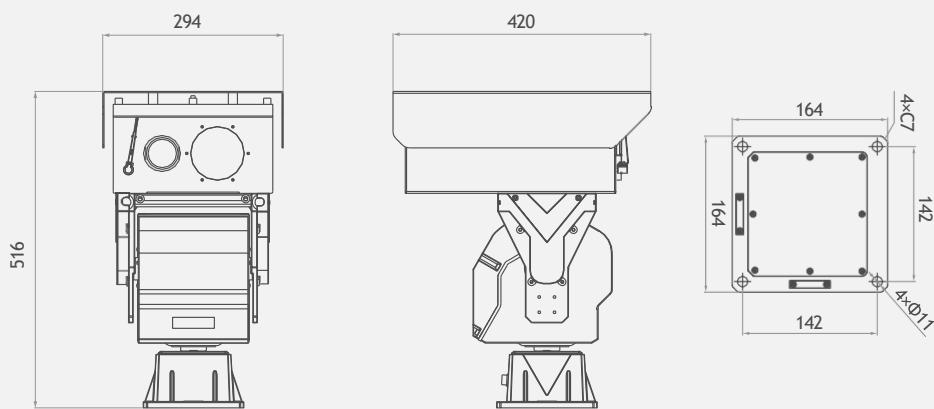
Thermal & Optical Large Bi-Spectrum PTZ Camera

SN-TPT6436HZ
SN-TPT4233HZ

Parameters vary according to device models.

|				
Human Detection	Vehicle Detection	Ship Detection	Smoke/Fire Detection	Wiper

640×512/400×300

- Thermal: 640×512/400×300, Motorized Lens: 75/100mm, 30~150mm
- Optical:
  4MP, 2592×1520, 32X, 12.5~400 mm
  4MP, 2592×1520, 32X, 15.6~500 mm
  4MP, 2592×1520, 60X, 12.5~750 mm
  4MP, 2592×1520, 60X, 16.7~1000 mm
  4MP, 2592X1440, 86X, 10~860mm
- Deep Learning: Human/Vehicle/Fire & Smoke/Fire Spot/Ship
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area
- Worm Gear and Worm Drive PTZ; Power off Self-locking
- Anti-frozen
- Pan: 360˚ Tilt: +40˚~-45˚
- Interface: 2 Audio In/Out, 3 Alarm In/Out, CVBS, RS485
- DC36V
- IP66

Application Scenarios

Medium Perimeter Protection, Fire Prevention…

Dimensions (mm)
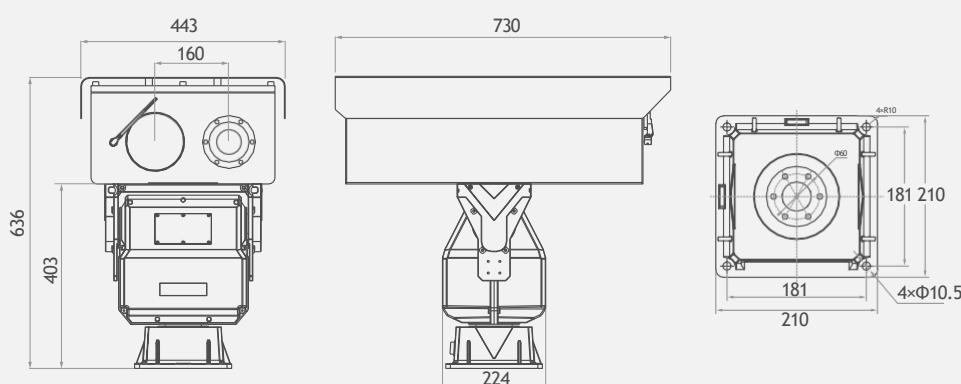
Thermal & Optical Large Bi-Spectrum PTZ Camera

SN-TPT6436MZ
SN-TPT4233MZ

Parameters vary according to device models.

640×512/400×300

| Human Detection	Vehicle Detection	Ship Detection	Smoke/Fire Detection	Thermal 30-150mm

- Thermal: 640×512/400×300, Motorized Lens: 30~150 mm
- Optical: 4MP, 2560×1440, 86X,10~860 mm
- Deep Learning: Human/Vehicle/Fire & Smoke/Fire Spot/Ship
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area
- Worm Gear and Worm Drive PTZ; Power off Self-locking
- Anti-frozen
- Pan: 360˚ Tilt: +40˚~-75˚
- Interface: 2 Audio In/Out, 6 Alarm In/ 4 Alarm Out, CVBS, RS485
- DC48V, Max 300W
- IP66

Application Scenarios

Medium Perimeter Protection, Fire Prevention...

Dimensions (mm)

839

550

448
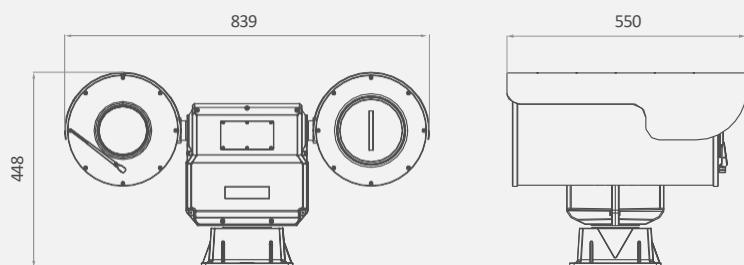
Explosion-proof Bullet Camera

SN-TPH6406DA
SN-TPH4203DA

Parameters vary according to device models.

Explosion Proof   Material   IVS   Temperature Accuracy   IP68

640×512/400×300

- 316L Stainless Steel
- Ex d II C T6 Gb / Ex tD A21 IP68 T80°C W
- Thermal: 640×512/400×300, 8/9/15/25/35/50 mm
  Motorized Lens: 25/50 mm
- Deep Learning: Human/Vehicle/Fire Spot/Smoking
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Temp. Pre-alarm & Alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temp. Accuracy: ±2°C / ±2%
- Temp. Range: -20°C ~ 150°C (-4°F ~ 302°F), Customizable
- IP68

Application Scenarios

Perimeter Protection, Indoor/Outdoor Fire Prevention, Industrial Temperature Measuring…

Dimensions (mm)

171
Φ166
464
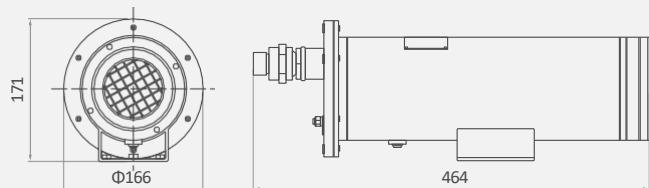
Accessories

Wall Mount Bracket
SN-BK401-SS

Junction Box
SN-BK400

Flexible Tube

Gland Box

Explosion-proof
Bi-spectrum PTZ Camera

SN-TPT6436PA
SN-TPT4233PA

Parameters vary according to device models.

| Explosion Proof | Material | IVS | Temperature Accuracy | IP68 |

640×512/400×300

- 316L Stainless Steel
- Ex d II C T6 Gb / Ex tD A21 IP68 T80°C
- Thermal: 640×512/400×300, 8/9/15/25/35/50 mm
  Motorized Lens: 25/50 mm
- Optical: 4MP, 2592×1520, 30X, 5.3 mm -159 mm
- Deep Learning: Human/Vehicle/Smoke & Fire/Fire Spot/Smoking
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Pan: 360° Tilt: +90°~-90°
- IR: 200 m
- Temp. Pre-alarm & Alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temp. Accuracy: ±2°C / ±2%
- Temp. Range: -20°C ~ 150°C (-4°F ~ 302°F), Customizable
- IP68

Application Scenarios

Perimeter Protection, Indoor/Outdoor Fire Prevention, Industrial Temperature Measuring…

Dimensions (mm)

566.6

360

493.9
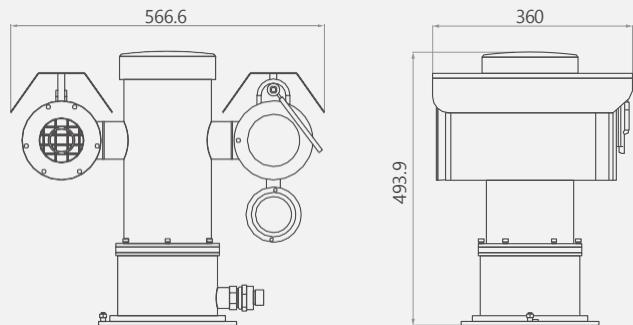
Accessories

Wall Mount Bracket
SN-BK402-SS

Junction Box
SN-BK400

Flexible Tube

Gland Box

Small Intelligent Thermal Module

SN-TPC6406VT

NDAA
COMPLIANT

640×512

**Human Detection** **Vehicle Detection** **Ship Detection** **Smoke/Fire Detection** **Anti-burning**

- Thermal: 640 × 512, 12 μm, 8~14 μm, 9/15/25/35/50 mm
  Motorized Lens: 25/50/75/100 mm
  Motorized Zoom Optional
- Deep Learning: Human/Vehicle/Smoke & Fire/Fire Spot/Smoking/Ship
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Focus-free (Fixed Lens)
- Anti-burning
- Temp. Pre-alarm & Alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temp. Accuracy: ±2˚C / ±2%
- Temp. Range: -20˚C ~ 150˚C (-4˚F ~ 302˚F)Customizable: ≤550˚C (1022˚F)
- Interface: Alarm I/O, Audio I/O, RS485, Micro SD card
- 64.8× 52 × 52 mm (2.55× 2.05 × 2.05 inch) without lens
- DC12V

Application Scenarios

Suitable for equipment integration such as shields/ptz, inspection robots, track robots, etc.

Dimensions (mm)

Small Intelligent Thermal Module

SN-TPC4201VT

8~14 μm
Long Wave

17 μm
Pixel Pitch

±2℃
Temperature Accuracy

Anti-burning

Auto Focus
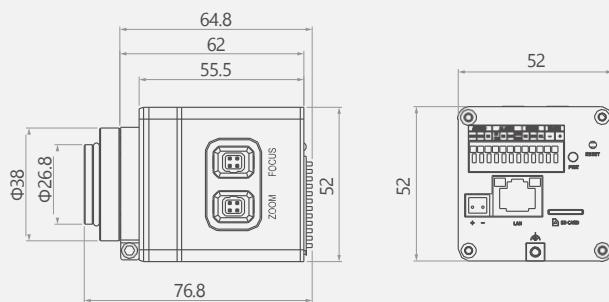
400 × 300

- Thermal: 400 × 300, 17μm, 8/9/15/25/35/50 mm
  Motorized Lens: 25/50/75/100 mm
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area, People Counting
- Anti-burning
- Temp. Pre-alarm & Alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temp. Accuracy: ±2℃ / ±2%
- Temp. Range: -20℃ ~ 150℃ (-4℉ ~ 302℉)
  Customizable: ≤900℃ (1652℉)
- Interface: Alarm I/O, Audio I/O, RS485,CVBS, Micro SD card
- 74× 52 × 52 mm (2.91× 2.05 × 2.05 inch)
- DC12V

Application Scenarios

Suitable for equipment integration such as shields/ptz, inspection robots, track robots, etc.

Dimensions (mm)

69.5

52

74

52
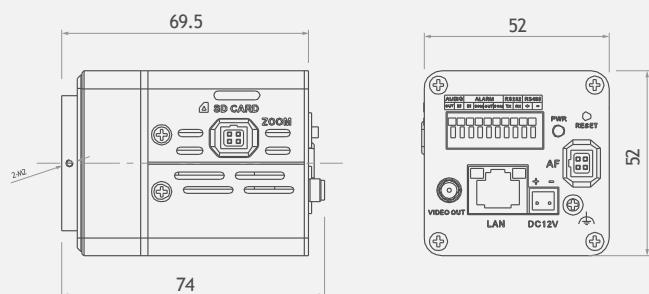
Intelligent Thermal Module

SN-TPC4203AT
SN-TPC4201AT

NDAA COMPLIANT

400×300

Human Detection

Vehicle Detection

Ship Detection

Smoke/Fire Detection

Anti-burning

- Thermal: 400 × 300, 17μm, 8~14 μm, 8/15/25/35/50 mm
  Motorized Lens: 25/50/75/100 mm
- Deep Learning: Human/Vehicle/Smoke & Fire/Fire Spot/Smoking/Ship
- IVS: Intrusion, Single/Double Line Crossing, Loitering, Wrong-way, Enter Area, Leave Area
- People Counting
- Anti-burning
- Temp. Pre-alarm & Alarm
- Support 3 temperature measurement rule types (spot, line, area)
- Temp. Accuracy: ±2°C / ±2%
- Temp. Range: -20°C ~ 150°C (-4°F ~ 302°F)
  Customizable: ≤900°C (1652°F)
- Interface: Alarm I/O, Audio I/O, RS485, Micro SD card
- DC12V

Application Scenarios

Suitable for equipment integration such as shields/PTZ, inspection robots, track robots, etc.

Dimensions (mm)
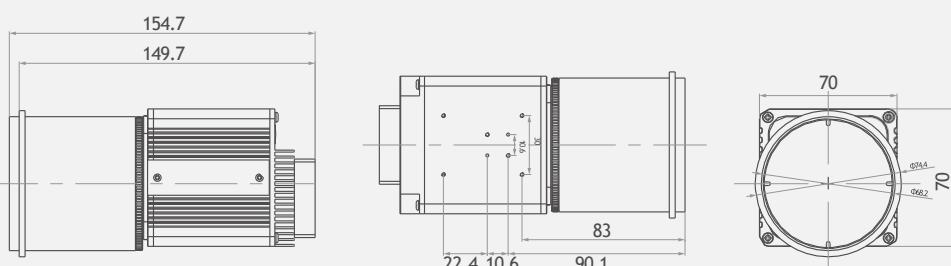
Effective Coverage

The Johnson Criterion is the field of infrared thermography used to determine the minimum resolution required to detect objects. The Johnson Criteria levels for infrared thermography are as follows:

Detection: At least 1.5 pixels are required to distinguish objects in the background and in the image.
Recognition: At least 6 pixels are required to classify objects (people, vehicles, animals, etc.).
Identification: At least 12 pixels are required to identify an object and its features, for example, a human holding a wooden stick.

256x192

12 μm

Human:
1.8×0.5 m

Vehicle:
4×1.5 m

Fire:
1×1 m

● Detection   ● Recognition   ● Identification

3.5 mm

Human
- 146m
- 36m
- 18m

Vehicle
- 447m
- 112m
- 56m

7 mm

Human
- 291m
- 73m
- 37m

Vehicle
- 894m
- 224m
- 112m

10 mm

Human
- 416m
- 104m
- 52m

Vehicle
- 1278m
- 319m
- 160m

400x300

Human:
1.8×0.5 m

Vehicle:
4×1.5 m

● Detection   ● Recognition   ● Identification

8 mm

Human
- 235m
- 59m
- 30m

Vehicle
- 722m
- 180m
- 90m

15 mm

Human
- 441m
- 110m
- 55m

Vehicle
- 1353m
- 338m
- 169m

25 mm

Human
- 735m
- 184m
- 92m

Vehicle
- 2255m
- 564m
- 282m

35 mm

Human
- 1029m
- 257m
- 128m

Vehicle
- 3137m
- 789m
- 395m

50 mm

Human
- 1471m
- 368m
- 184m

Vehicle
- 4510m
- 1127m
- 563m

75 mm

Human
- 2206m
- 551m
- 275m

Vehicle
- 6765m
- 1691m
- 846m

100 mm

Human
- 2941m
- 735m
- 368m

Vehicle
- 9020m
- 2235m
- 1118m

640x512

12 μm

Human:
1.8×0.5 m

Vehicle:
4×1.5 m

● Detection   ● Recognition   ● Identification

9 mm

Human
- 375m
- 94m
- 47m

Vehicle
- 1150m
- 288m
- 144m

15 mm

Human
- 624m
- 156m
- 78m

Vehicle
- 1917m
- 479m
- 240m

25 mm

Human
- 1040m
- 260m
- 130m

Vehicle
- 3194m
- 799m
- 400m

35 mm

Human
- 1456m
- 364m
- 182m

Vehicle
- 4472m
- 1118m
- 559m

50 mm

Human
- 2081m
- 520m
- 260m

Vehicle
- 6389m
- 1597m
- 799m

75 mm

Human
- 3121m
- 780m
- 390m

Vehicle
- 9583m
- 2396m
- 1198m

100 mm

Human
- 4161m
- 1040m
- 520m

Vehicle
- 12778m
- 3194m
- 1597m

● Detection　　● Recognition

256x192

12 μm

3.5 mm
- 146m
- 49m

7 mm
- 292m
- 97m

10 mm
- 417m
- 139m

400x300

17 μm

8 mm
- 235m
- 78m

15 mm
- 441m
- 147m

25 mm
- 735m
- 245m

35 mm
- 1029m
- 343m

50 mm
- 1471m
- 490m

75 mm
- 2206m
- 735m

100 mm
- 2941m
- 980m

640x512

12 μm

9 mm
- 375m
- 125m

15 mm
- 625m
- 208m

25 mm
- 1042m
- 347m

35 mm
- 1458m
- 486m

50 mm
- 2083m
- 694m

75 mm
- 3125m
- 1042m
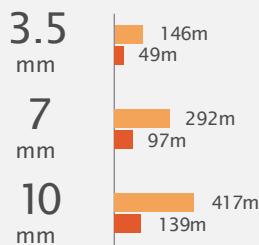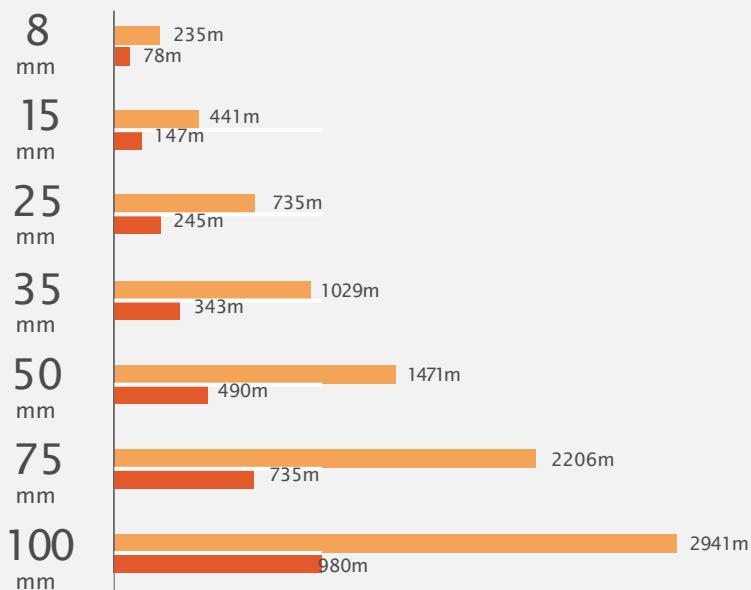
100 mm
- 4166m
- 1389m
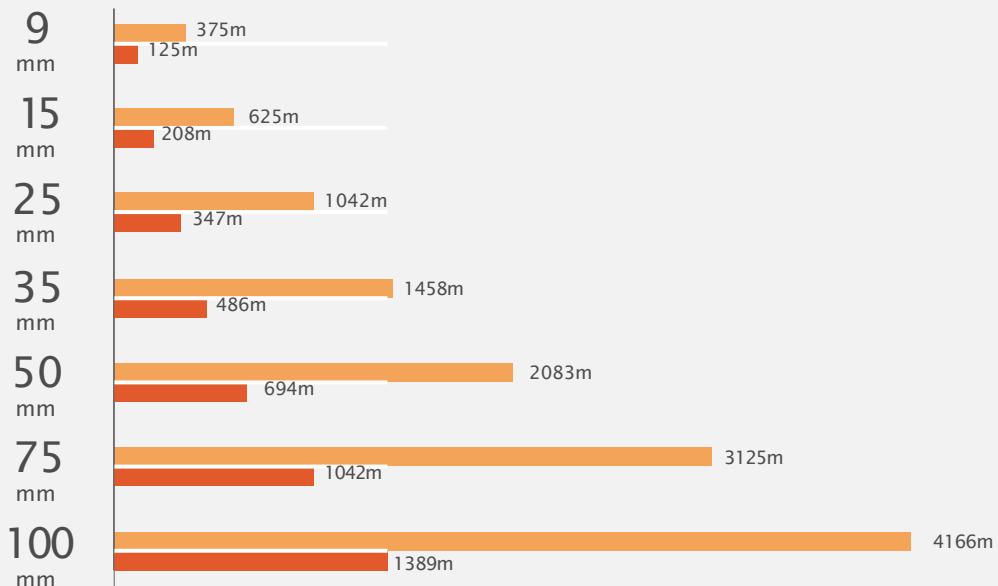
Smart Thermal Product Family

640

Module
SNTPC6406VT

Bullet
SNTPC6406KT

Bi-spectrum PTZ
SNTPT6436QF

Bi-spectrum PTZ
SNTPT6436LZ

Bi-spectrum PTZ
SNTPT6436ZZ

Bi-spectrum PTZ
SNTPT6436HZ

Bi-spectrum PTZ
SNTPT6436MZ

400

Module
TPC4201VT

Module
TPC4203AT
TPC4201AT

Bi-spectrum PTZ
TPT4233QF

Bullet
SNTPC4203KT
SNTPC4201KT

Bi-spectrum Bullet
SNTPC4233DJT

Bi-spectrum PTZ
SNTPT4233LZ

Bi-spectrum PTZ
SNTPT4233ZZ

Bi-spectrum PTZ
SNTPT4233HZ

Bi-spectrum PTZ
SNTPT4233MZ

256

Bi-spectrum Cube
SND2

Bi-spectrum Cube
SND2L

Bi-spectrum Turret
SNTPC2553CT
SNTPC2552CT

Bi-spectrum Bullet
SNTPC2553DRT

Explosion Proof

Bullet
SNTPH6406DA
SNTPH4203DA

Bi-spectrum PTZ
SNTPT6436PA
SNTPT4233PA

Independent Development

Complete Category

Customized Service

2012
Year Founded

Offices:
Amsterdam-Leipzig
Warehouse:
Amsterdam – Leipzig

Certifications:
ISO9001 – ISO14001
ISO18001

18+
Employees

Sales:
Minimum 18 years experience(RSE)
Support:
Minimum 12 years Experience
Linux – Windows- API - SDK
Dev Ops:
Linux Certified Sysadm
Cisco CCNA I en II
Aries Certified server+
Microsoft MCSA/HTML5/CSCI certified partner
Redhat Certified Partner

NDAA- TAA
100% Realiable

Chinese Components
SOC NXP/Texas Instruments
Processor Sony IMX37
Tamron Lenses
Dillux Steel
Rigips screws

Production:
Taiwan – Vietnam – Germany
Firmware:
Controlled Malwarefree(Xebia)
Warranty:
Full coverage 7 Years(Insurance)

Real Safe
Products

SRTP Encryption
ENCRYPTION Key Management
Multi-factor authentication
Strong Password Policy
HTML5
802.1X Security
HTTPS
VPN
Malware free Firmware

Exclusive Partnerships
Limited partners in Europe
No internet sales
Stock for Partners
Low ODM/OEM possible

Support
Own firmware
Integration (API- SDK)
Side Surveys
Demo Truck for Roadshows
FAT – SAT Test

dutch security innovations

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