



Video Solutions for Security Professionals



READY TO REOPEN?  
DO YOU HAVE

**EMPLOYEE  
TEMPERATURE  
PRE-SCREEN  
PROCEDURE AS  
CDC REQUIRED?**

LTS HAS THE SOLUTION YOU NEED





Video Solutions for Security Professionals



# LTS Temperature Screening Thermal Solutions

## ✓ Meet CDC Requirement

CDC expects employers to measure employees' temperature before they enter working facilities.

Our temperature screening thermal cameras can be easily installed at facility access points on walls, ceilings or with a tripod. They can measure up to 30 people's body temperature at a time. This ensures no congestion at high traffic areas.



## ✓ Meet FDA Recommendation

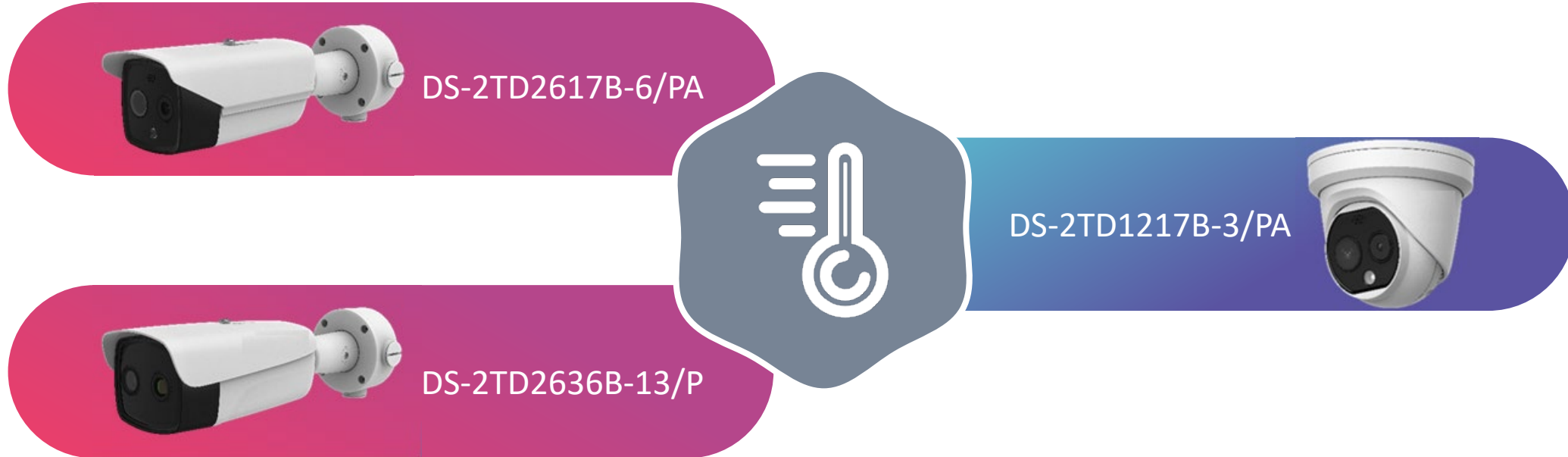
FDA recommends business to use telethermographic devices that have a temperature measurement accuracy of less than or equal to  $\pm 0.5^{\circ}\text{C}$  ( $\pm 0.9^{\circ}\text{F}$ ).

LTS' solution's temperature screening thermal cameras can achieve  $\pm 0.5^{\circ}\text{C}$  ( $\pm 0.9^{\circ}\text{F}$ ) measurement accuracy, meeting FDA recommendations without the black body. With a black body, the accuracy will be even higher - less than or equal to  $\pm 0.3^{\circ}\text{C}$ . While other companies' temperature screening products won't be able to meet FDA's accuracy requirement without a costly black body.

During COVID-19 period, telethermographic systems may be marketed to the general public for general, non-medical purposes. Because they are not intended for use in the diagnosis of disease or other conditions or in the cure, mitigation, treatment, or prevention of disease, when marketed for these non-medical applications, FDA device marketing authorization is not required, and all the other medical device requirements of the FD&C Act do not apply to manufacturers, importers, and distributors of these products learn more at [www.fda.gov/media/137079/download](http://www.fda.gov/media/137079/download).



# 1 Temperature Screening Thermal Cameras



### Key Features for different products:

Model name	Thermal Resolution	Thermal Lens	Detection Distance	FOV	Temperature Accuracy
DS-2TD1217B-3/PA	160 × 120	3mm	0.8-1.5m	50° × 37.2°	±0.5 °C
DS-2TD2617B-6/PA	160 × 120	6mm	1.5-3.0m	25° × 18.7°	±0.5 °C
DS-2TD2636B-13/P	384 × 288	13mm	2.5-7.0m	28.8° × 21.6°	±0.5 °C

# 2 Thermal Accessories



UNC 1/4"-20 Tripod: DS-2907ZJ



DS-2908ZJ



DS-2909ZJ

DS-2908ZJ and DS-2909ZJ are the connecting plates that can fix thermal camera on the tripod. Thus, if deploying camera on a tripod, the connecting plate is **required**.

**Note:** DS-2908ZJ is designed for Turret.

DS-2909ZJ is designed for Bullet.

# 3 Compatibility

### Online Cameras



Thermal Camera Version	V5.5.26 build 200427		
Test Platform	NVMS V3	LTN89xx Series	LTS Connect
Version	V3.2.0.50	V4.21.005 build 200427	3.13.1
Live view(Display Temperature Info)	√	√(Web, Local GUI)	√
Playback (display Temperature Info)	√	√(web, Local GUI)	√
Configure Temperature Measurement	√	√(web, Local GUI)	x
Receive Abnormal Temperature Alarm	√	√(Web, Local GUI)	√

# 4 Highlights

### Visualized Bi-spectrum Live View

The visualized bi-spectrum (thermal & optical) live view provides both temperature measurement and basic surveillance at the same time.

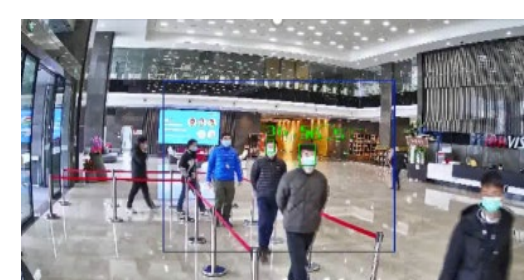
Tripod mounting and simple wiring make for easy installation and use.



Typical Scenario



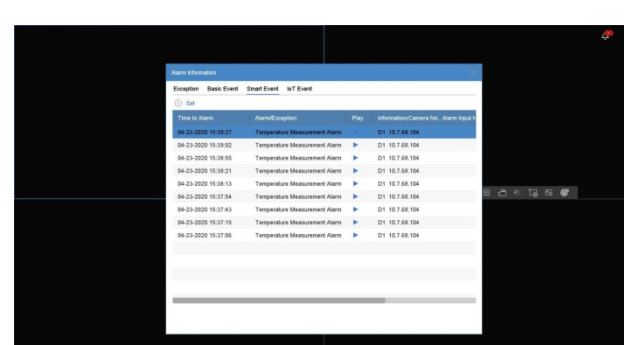
Thermal Image



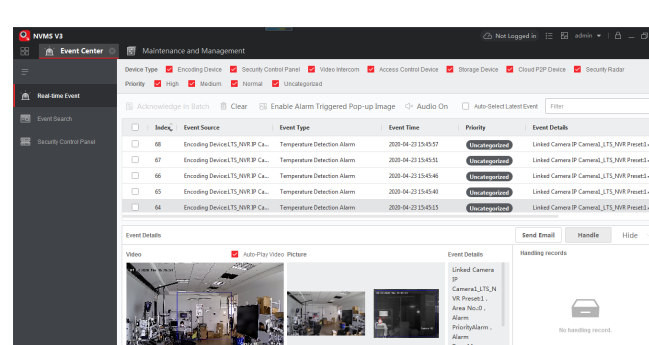
Optical Image

### Information Recording & Alarm Pushing

Abnormal Temperature Alarm are recorded in the NVR and will be pushed to NVMS & App at the same time.



Alarms in NVR

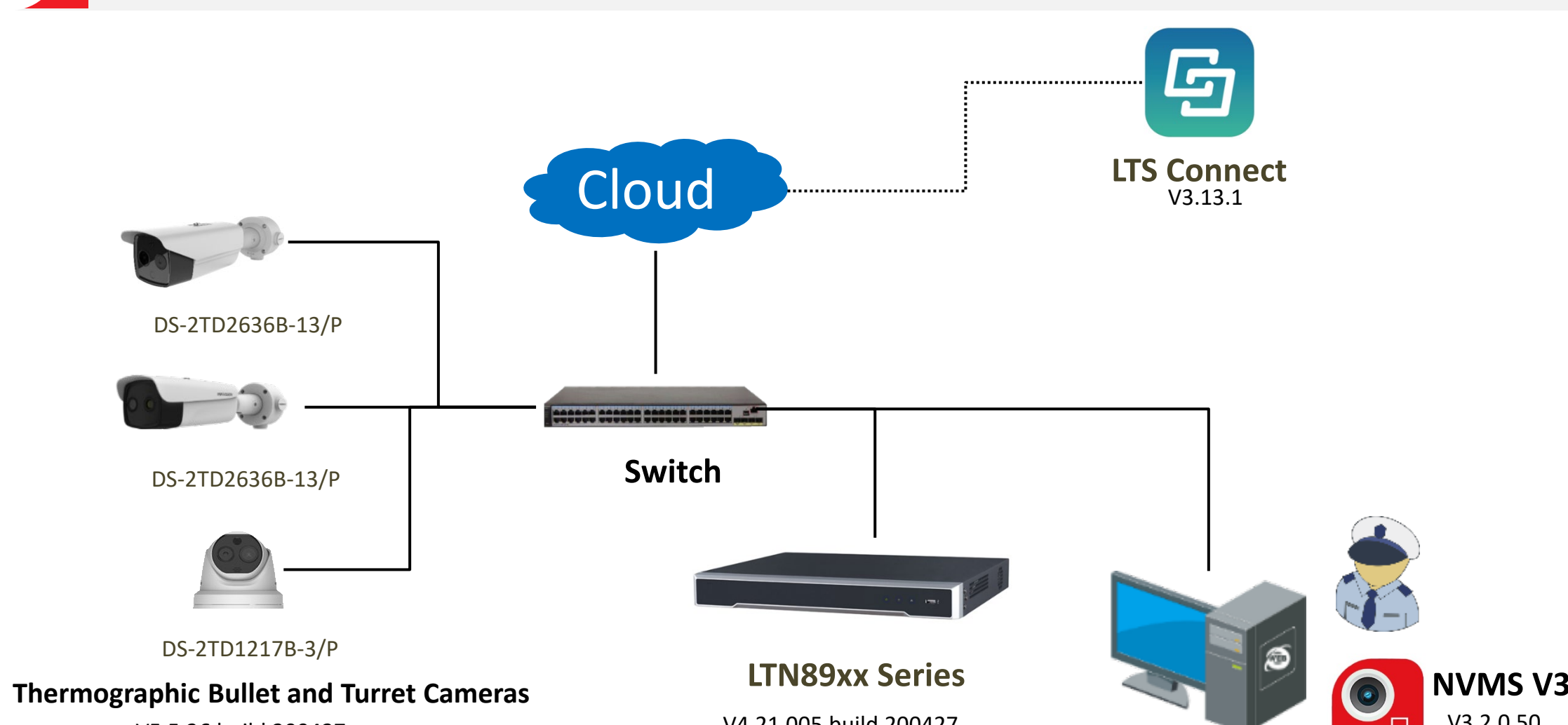


Alarms in NVMS



Alarms in App

# 5 Network Topology



# 6 Application

### Composition:

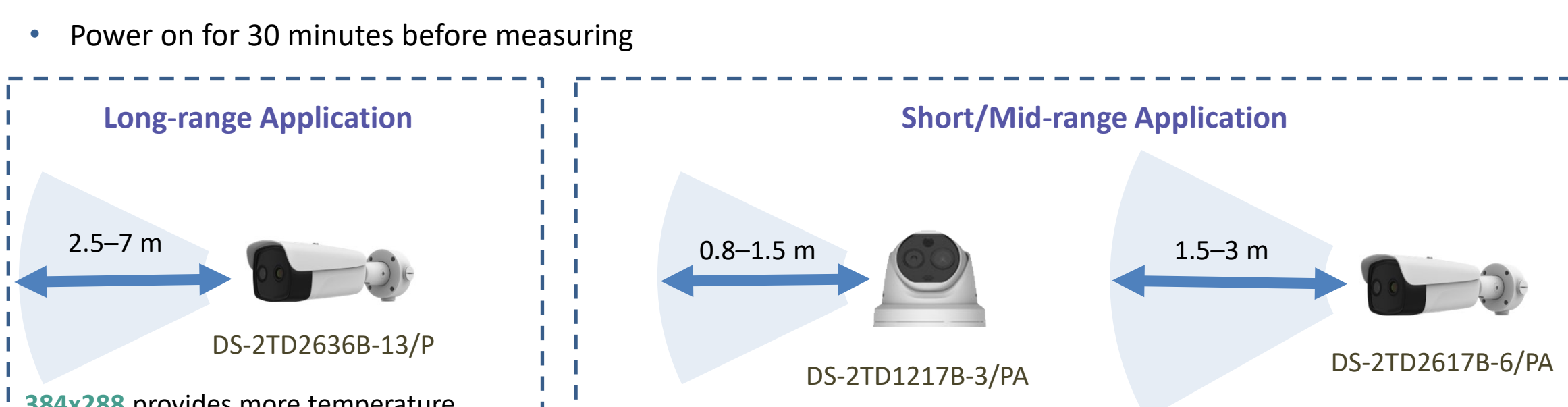
Thermographic camera + mounting bracket(s) + NVR or NVMS (PC) + PoE switch + monitor

### Advantages:

- Mountable on tripod/pole or building structure for **temporary or long-term use**
- Accuracy of  $\pm 0.5^{\circ} \text{C}$  ( $\pm 0.9^{\circ} \text{F}$ )
- **Integrated 4 MP optical camera** satisfies normal monitoring requirement

### Set Up Tips:

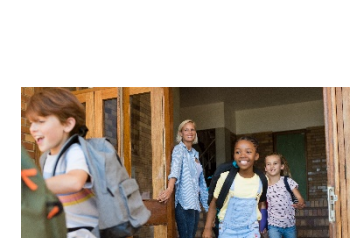
- Set up the solution in a stable **indoor** environment without wind or direct sunlight
- Power on for 30 minutes before measuring



# 7 Industry Solutions

### 01 School

School gate is the major spot to screen abnormal temperatures. However, considering the dense people flow, screening procedure should be fast and convenient. No crowding or commotion is tolerable.



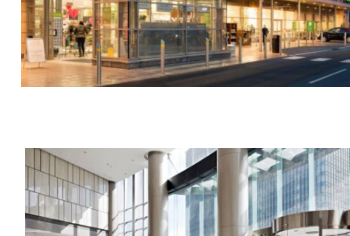
### 02 Supermarket

Passenger entrance is where everyone walks into the supermarket. It is always the most crowded spot. People flow keeps at a high level. The measurement procedure should be fast and convenient to avoid commotion and crowding.



### 03 Building

Entrance is where everyone enters and exits buildings. To prevent crowding, a quick and convenient setup is recommended for preliminary temperature screening.



### 04 Hospital

Hospital sees large number of people, healthy or ill, going in and out everyday. Entrance is one of the most crucial places in the hospital as everyone need to pass through.





# 1 Thermographic Terminal & Tablet

### Thermographic terminal

Supporting **wall mounting** and **floor standing with mounting pole**.



**7-inch** touch screen. Temperature screening with **visual results** and **audio prompt**.



Supporting **face mask wearing alert** and **forced mask wearing alert**. **Temperature screening with mask**.



**DS-K1T671TM-3XF**



Measuring the temperature of **forehead** by thermographic after **face detection**.



Authentication distance: **0.5-1.5 m**. Authentication height: **1.4-1.9m**.



Temperature range: **30 °C to 45 °C**, Temperature accuracy: **±0.5 °C**.



### Monitoring Tablet

Operating system: **Android**.



Supporting **abnormal temperature alarm**, **people counting**, **abnormal temperature counting**.



Live view of door station camera.



**7-inch** touch screen. Real-time temperature display, abnormal temperature filter.



One-click unlock  
One-click calling the center.



**DS-KC001**



Built-in **32G** TF card, Temperature recording storage, Max to **100,000 records**




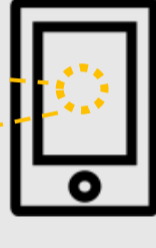

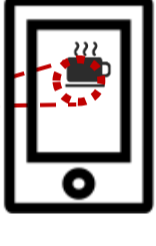




# 2 Compatibility

### Thermographic Terminal

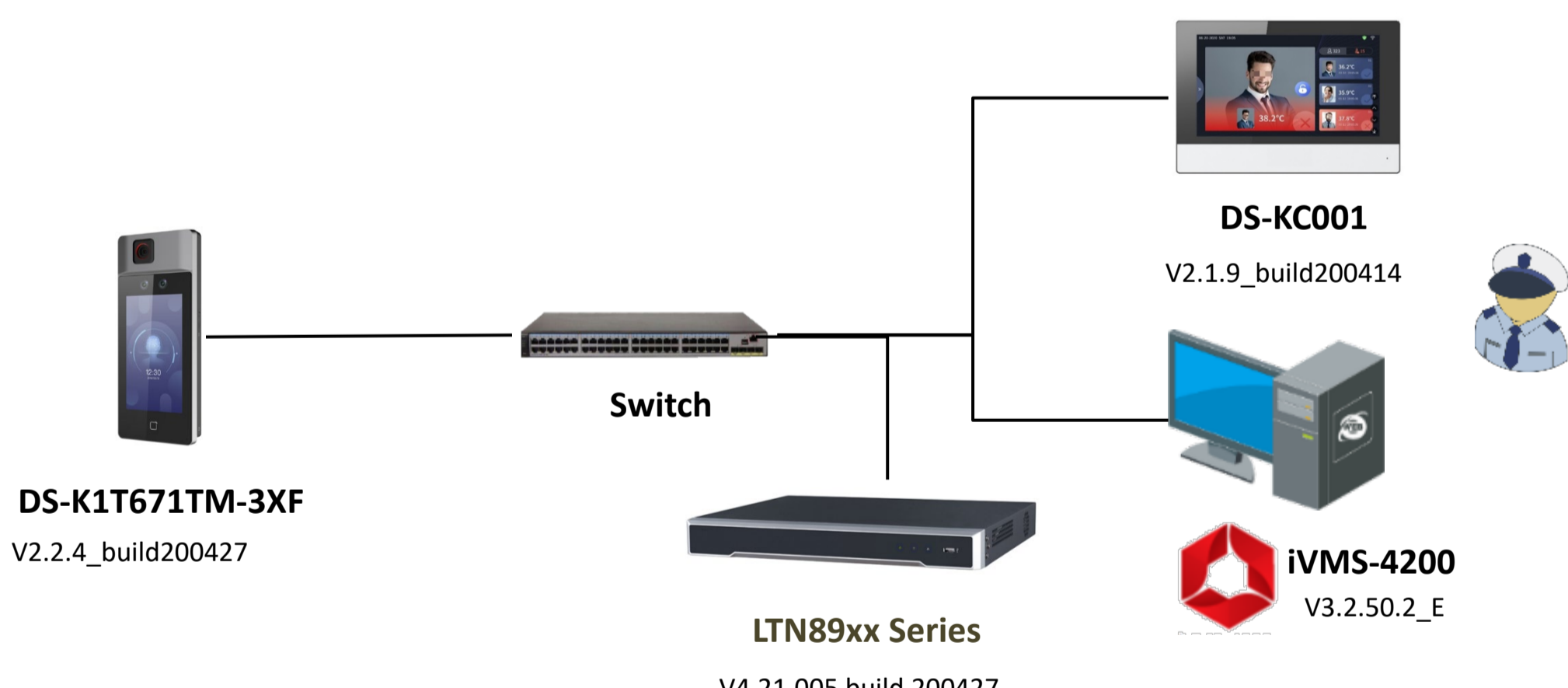


Terminal Version	V2.2.4 build 200427	
Test Platform	iVMS-4200	LTN89xx Series
Version	V3.2.50.2_E	V4.21.005 build 200427
Live view(Display Temperature Info)	√ (No Temperature info)	√ (No Temperature info)
Playback (display Temperature Info)	√ (No Temperature info)	√ (No Temperature info)
Configure Temperature Measurement	x	x
Receive Abnormal Temperature Alarm	√	x
Access Control Related Functions	√	x

# 3 Highlights

LTS Thermographic	Thermopile
 <p><b>Full screen measurement</b></p>	 <p><b>Fixed limited area measurement</b></p>
 <p><b>Measurement by AI tracking can be accurate</b></p>	 <p><b>Measurement in the limited fixed area can be wrong or missed</b></p>
 <p><b>Measurement distance: 0.5 m~1.5 m</b></p>	 <p><b>Measurement distance: 0.3 m~0.5 m</b></p>
 <p><b>Efficiency: 1 s/person</b></p>	 <p><b>Efficiency: 5 s/person</b></p>

# 4 Network Topology



# 5 Application

### Composition:

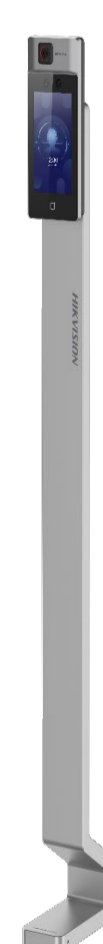
Thermographic Terminal + Floor Standing Bracket (optional)

### Advantages:

- Live view
- Display Temperature Results
- Voice Reminder
- Accuracy of  $\pm 0.5^{\circ} \text{C}$  ( $\pm 0.9^{\circ} \text{F}$ )

### Set Up Tips:

- Measure from about **0.3 to 2.0 m** away
- Set up the solution in a stable **indoor** environment without wind or direct sunlight



# 6 Industry Solutions

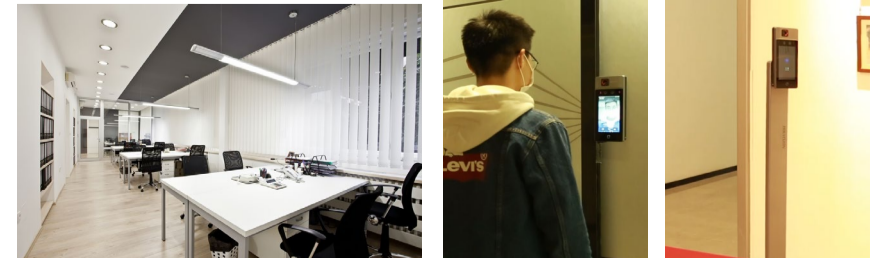
## 01 School

- At the corridors outside classrooms, temperature screening can be performed along with course attendance statistics.
- The Dormitory is the place where students spend the most of their time in school. Dormitory space is small but people density stays at a high level.



## 02 Building

- Office Area is the place where employees work and stay. Taking into consideration of attendance check and personnel permission control





### 1 Thermographic Handheld Camera



DS-2TP21B-6AVF/W

Model	DS-2TP21B-6AVF/W
Accuracy:	±0.5°C(0.9 °F)
Measurement Range:	30°C to 45°C(86-113 °F)
Thermal Detector:	VOx UFPA, 17µm pitch
Thermal Resolution:	160×120
Thermal Lens:	6.2 mm focal length 25° HFOV
NETD:	≤40 mK @ 25°C
Optical Camera:	8 MP
Display Resolution:	640x480
Touchscreen:	Yes
Interfaces:	USB-C, Bluetooth, Wi-Fi
Local Storage:	<b>8 GB Built-in</b>
Battery:	4 to 5 hours, Removable
Tripod Mounting:	¼-20 UNC
Drop Safe:	2 m
IP Rating	IP54
Dimensions	9.6"×3.9"×4.1"
Weight	1.13 lb

### 2 Thermal Accessories



UNC 1/4"-20 Tripod: DS-2907ZJ



Battery for TP21B:  
DS-3750DC



Charger Dock:  
DS-5202ZC

Those two accessories are optional for DS-2TP21B-6AVF/W, and will be released in mid of April.

### 3 Compatibility

Handheld Camera

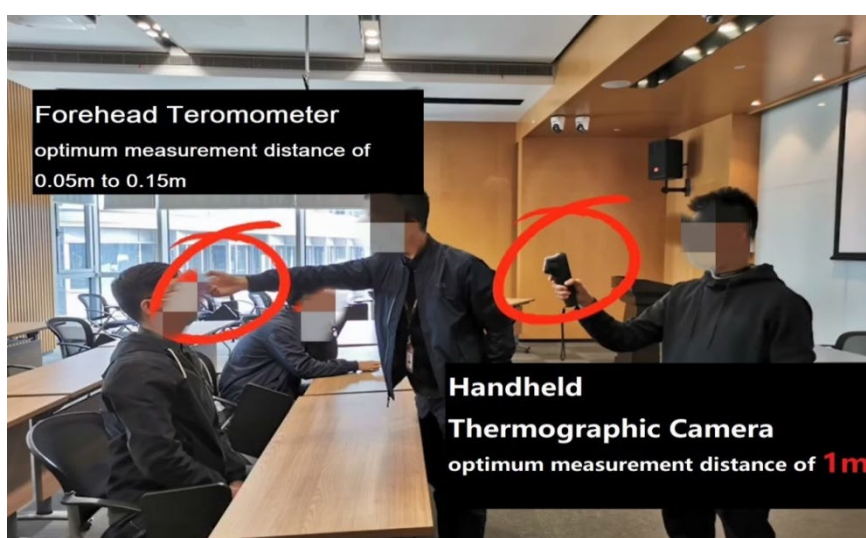


Handheld Camera Version	V5.4.18 build 200304		
Test Platform	NVMS V3	LTN89xx Series	LTS Connect
Version	V3.2.0.50	V4.21.005 build 200427	3.13.1
Live view(Display Temperature Info)	√	√(Web, Local GUI)	√
Playback (display Temperature Info)	√	√(web, Local GUI)	√
Configure Temperature Measurement	√ (Directly connected)	x	x
Receive Abnormal Temperature Alarm	√	√(Web, Local GUI)	√

### 4 Highlights

#### Safer:

Safety measurement distance avoiding unnecessary physical contact.



#### Faster:

Non-stop & one second per person for skin-surface temperature detection



#### Reliable:

High accuracy of temperature screening helps to get reliable real-time alarm.

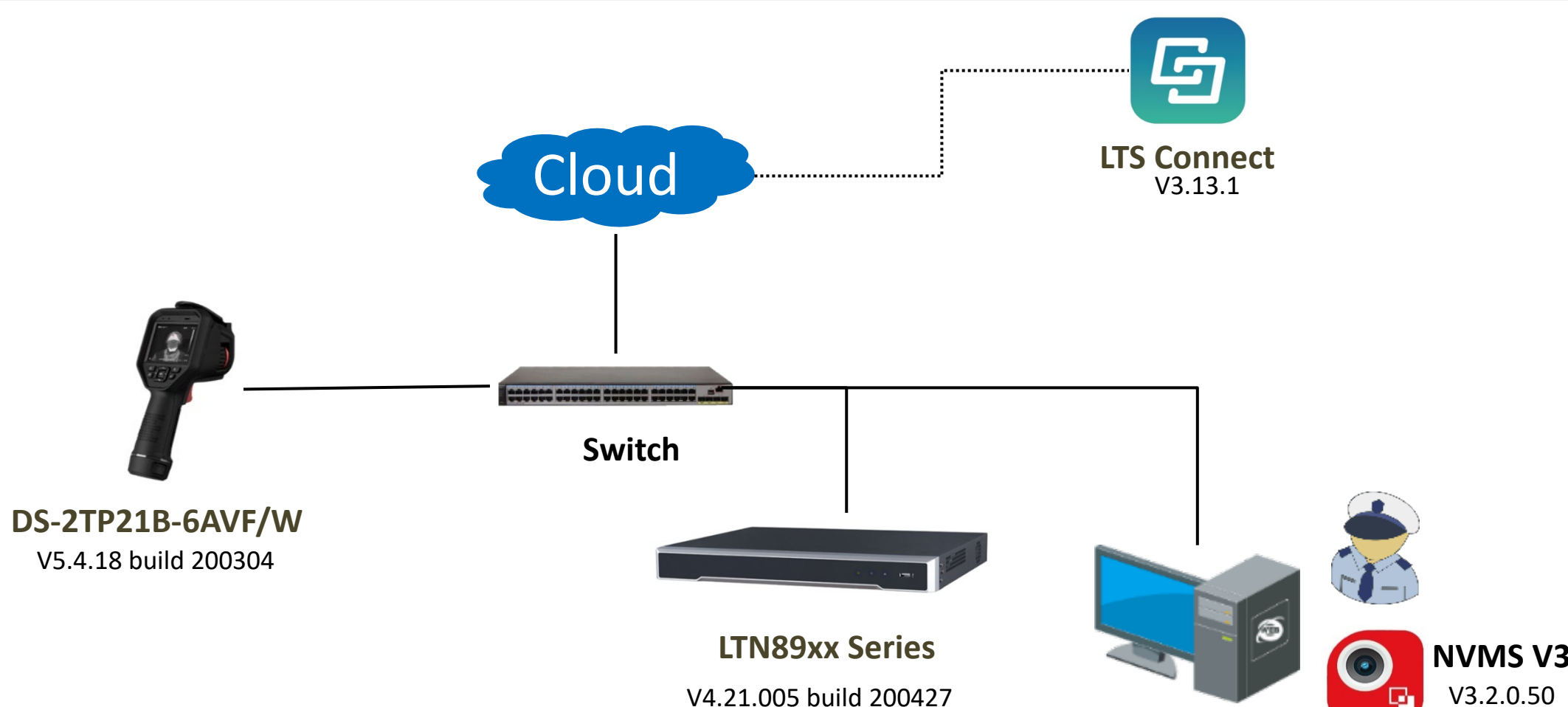


#### Visible:

Visible thermal image and temperature value can be shown at the same time.



### 5 Network Topology



### 6 Application

#### Composition:

Professional thermographic handheld camera + tripod (optional)

#### Advantages:

- Camera connects via Wi-Fi with PC / Mobile client
- Carry in hand or mount on a tripod for mobile measurement
- Embedded audio alarm can immediately notify operators of temperature alarm
- Touch screen provides ease of use
- Accuracy of ±0.5° C (± 0.9° F)
- Integrated 8 MP optical camera satisfies normal monitoring requirement

#### Set Up Tips:

- Measure from about 1.0 to 2.0 m away
- Set up the solution in a stable indoor environment without wind or direct sunlight
- Power on for 5 minutes before measuring



### 7 Industry Solutions

#### 01 Supermarket

##### Convenient Temperature Screening for Drivers and Passengers

- When the vehicle enters the supermarket, he or she should stop the car and lower the window. Security can then check temperature for the driver and passenger using thermographic handheld camera.
- It's recommended to use this device in an indoor environment, such as entrances of indoor parking lots, to shield wind and reduce external influence.



#### 02 Building

##### Easy Supplemental Temperature Screening – Simple Wireless Connection

- Handheld thermographic cameras can be added at entrances for temporary temperature screening with secondary queues during busy periods.
- Portable handheld device for easy indoor on-spot checks in office area.



#### 03 Hospital

##### Cable Free for Fast Deployment

- Handheld thermographic cameras can be added at entrances for temporary temperature screening with secondary queues during busy periods.

