TITANUS Body Temperature Measurement System

TITANUS

37.2°C Detected 39.2°C 36.3°C 36.2°C 36.9°C

36.9°C 37.8°C 37.5°C 36.9°C

TITANUS BODY TEMPERATURE THERMAL IP CAMERA

Concurrent up to **16** human body temperature will be detected at main entrance

intel
inside

TITANUS FACE RECOGNITION PANEL

Fast, Non-contact Automated Human Body Temperature Detection at your Main Entrance.

WHY BODY TEMPERATURE MEASUREMENT SYSTEM?

Traditional Temperature Measurement

Not SAFE !
Cross infection in short distance

Low Efficiency !
1~2 sec/ person. Require lots of manpower for crowded area

Principles for Preventing and Controling Infectious Diseases

Early Discovery

Early Report

Early Treatment

Early Isolation

Cut off the Infection path

Prevent spreading

Body Temperature
Thermal IP Camera +
Black Body

Face Recognition Access Panel
with Body Temperature Detection

Thermal IP Camera with Body Temperature Detection

Temperature measure and face recognition system

Face Intelligent Recognition
- Deep learning
- Quick determination of the over temperatured target
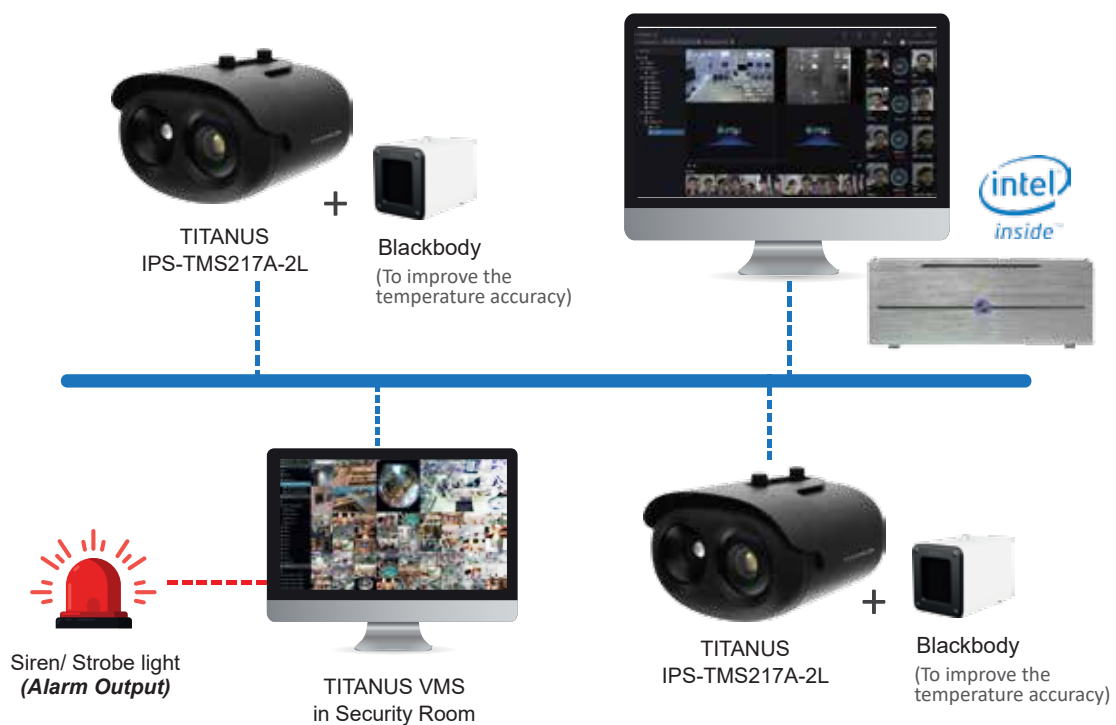
Thermal Temperature Measure
- No-contact temperature measure
- Multiple target quick measure

Big Data Analysis
- Health data
- Statistics report
- Analysis of epidemic trend

Body Temperature Measurement and Monitoring Platform

TITANUS IPS-TMS217A-2L

Blackbody (To improve the temperature accuracy)

intel inside

Siren/ Strobe light *(Alarm Output)*

TITANUS VMS in Security Room

TITANUS IPS-TMS217A-2L

Blackbody (To improve the temperature accuracy)

Application

- **Airport**
- **Hospital/ Hotel**
- **Bank / Service Center**
- **University/ School**
- **Convention Center**

Government Sector/ Custom

Factory

Commercial building

Transpotation Hub

Face Recognition Access Panel with Body Temperature Detection

Non-Contact body temperature measurement
with voice broadcast upon abnormal temperature detection.

0.15m ~ 0.4m

Server with VMP Software

Network Switch

LAN   LAN

Face Recognition Access Panel with Body Temperature Detection

Deep Learning
based facial recognition, improves the face capture accuracy.

3D-Live Face Detection
Anti-fake Technology

Multi-face recognition with
up to 30,000 face library

Multi Alert Function
Timeout Alarm, Blacklist Alarm, High Temperature Alarm

Support StandAlone or Network Centralize mode

Application

- Retails
- Food & Beverage
- Service Center

Small/ Medium Office

Factory/ Manufacturer

Legal/ Accounting Firm/ Company Secretary

School/ Kindergarten

Intel® Based Body Temperature Measurement Platform

TITANUS Lite BTMS Series System are the high performance back-end platform for **TITANUS Body Temperature Measurement System**. It come with the Video Management Plaform (VMP) application or Central Management System (CMS) to serve the Live Monitoring, Event Searching & Retrieval, and Device & Data Management.

TITANUS X- Series
Powered by Intel® Core™ i5/ i7)

Powered by Intel® Based Architecture equipped with Intel® CPU, the TITANUS Lite BTMS Series offer the ready-to-integrate services with TITANUS EYEoT inlcude **AI Intelligent Video Surveillance System (TITANUS VMS), Integrated Access Control System (TITANUS ACCESS MANAGER), and Central Monitoring Sytem (TITANUS CMS).**

Optional Integration:

· **TITANUS VMS**
· **TITANUS ACCESS MANAGER**
· **TITANUS CMS**

TITANUS Pro Series
Powered by Intel® Core™ i3/ i5/ i7/ Xeon)

TITANUS RAID Series
Powered by Intel® Core™ i7/ Xeon)

SPECIFICATION

Model	TITANUS X5-BTMS	TITANUS X7-BTMS
CPU	Intel® Core™ i5 processor	Intel® Core™ i7 processor
RAM	8GB	16GB
OS	Window 10 IoT (64-Bit)	
Hard Disk	Max. 2 units	
System	Video Management Platform / Central Management System	
Thermal IP Camera	Max. 2 Channels	Max. 4 Channels
Face Recognition Panel	Max. 16 units	Max. 32 units
Ethernet	RJ-45, 10 / 100 / 1000 Mbps	
Display	1 x HDMI, 1 x DP	
Power	DC 19V	
Operating Temperature	0 ~ 45 ˚C / 32 ~ 113 ˚F	
Humidity	0 ~ 80% RH (non-condensing)	
Dimensions (W x H x D)	245 x 100 x 236 mm	

PRODUCT SPECIFICATIONS

Body Temperature Thermal IP Camera

Product	
Model Name	TITANUS IPS-TMS217A-2L
Detector Type	Uncooled IRFPA Microbolometer
Effective Pixels	400(H) x 300(V)
Pixel Size	17um
Thermal Sensitivity (NETD)	40mK @ F1.0, 300K
Spectral Range	8 ~ 14um
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 Pixels	1920(H) x 1080(V)
Shutter Speed	1/50 ~ 1/64,000s
Min. Illumination	Color: 0.01Lux @ (F1.2, AGC ON) B/W: 0.001Lux @ (F1.2, AGC ON)
Focal Length	2.7 ~ 12mm
Angle of View	105˚ , 32˚
Compression	H.265, H.264, MJPEG
Audio Compression	G.711, AMR, RAW-PCM (Optional)

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
Maximum Target	16 (Moving), 45 (Static)
Temperature Alarm	Over temperature alarm, Temperature different alarm
Accuracy	≤ 0.3 ˚C (Emission rate, distance, ambient, temperature, etc.
Response Time	≤ 30ms
Measurement Distance	3-5 meters
Theory of temperature measurement range	-20 ˚C ~ 60˚C (-4˚F ~ 140˚F)
Temperature display mode	Temperature target >5˚C, Display absolute tempetature value ; Temperature target ≤ 5˚C, Display relative temperature value (temperature different DEV = highest value - average)

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
BNC Output	N/A

General	
Power Supply	DC12V/ POE (IEEE 802.3af)
Power Consumption	Max 10W
Operating Temperature	-30˚C ~ 60˚C (-22˚F ~ 140˚F)
Certifications	CE /FCC
Ingress Protection	IP66
Dimensions	212 x 182 x 136mm

Access Control Panel with Face Recognition & BodyTemperature Detection

Product	
Model Name	TITANUS TFP2188MK-01
OS	Embeded Linux system

Screen	
Size	7" IPS infinity display
Luminance	450 Lux
Resolution	1024 x 600
Ratio	9 : 16

Camera	
Resolution	2.0MP (1920 x 1080)
Sensor	1/2.7" low illumination CMOS sensor
Lens	HD Fixed 3.9mm (F2.2)
White Balance	Auto, low color temp, high color temp, Manual
WDR	D-WDR & Real WDR
LED	RGB (Natural Light) & IR LED

Temperature Detection	
Temperature measurement range	30˚C ~ 45˚C
Temperature measurement range	0.15M ~ 0.4M
Temperature measurement range	±0.3˚C
Voice Alert	Abnormal Temperature Alarm

Face Detection & Capture	
Detection Angle	Tilt: 90 degree ; Pan: 53 degree
Face library	30,000 face library
1 : N Face Recognition	≤ 0.2s/person, the recognition accuracy is greater than 99%, under the condition of error rate of 0.03%
Stranger detection	Support
Identify distance	0.3m - 2.0m
Identification Parameter Setting	Black and white list, detection sensitivity, comparison threshold, area protection, face frame switch

Port	
Network	10/ 100M Network adaptive, RJ45 interface
Audio	1 audio output
Serial	RS232 serial
Relay Output	1 Relay Out
Wiegand	Bare wire, * (D0, D1, GND) support wigan 26, 34, 3 (D0, D1, GND)
Reset	Bare wire, 2* (short reset: restores factory Settings)

General	
Power	DC12±30%
Power Consumption	≤2 0W
Work Temp. & Humidity	Temp.: -30˚C to +70˚C humidity: 10 to 90% RH (Optional heater at low temperature)
Level of Protection	IP67, IK08, 8KV Surge Protection
Install Type	Turnstile installation, wall mounted installation
Size	248.3mm (L) x 126.9mm (W) x 26.6mm (Thickness)