



tbtsys.com



Made in Korea

All About Thermal Imaging Camera



TPV-IASW-FDU

Universal Fever Screening Camera

Image Source : <https://coronavirus.jhu.edu/>

FEATURES

Thermography Imaging Camera

- Effective pixels 384 x 288 / NETD \leq 50mK
- 9.7 mm fixed lens
- Accuracy $\pm 0.3^{\circ}\text{C}$ with black body
- Optimized body heat measurement 20~40 $^{\circ}\text{C}$

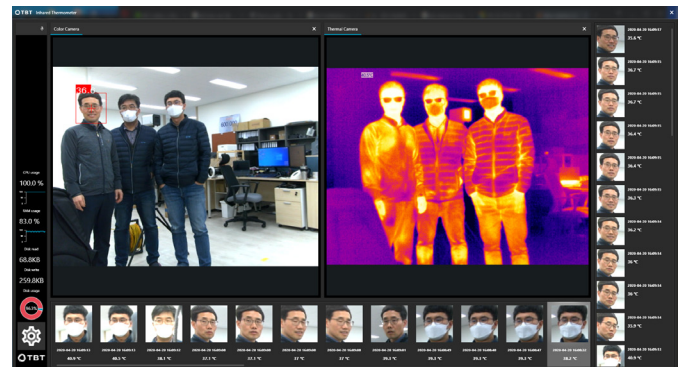
Visible Camera

- Full HD 1920x1080 resolution
- 6mm fixed lens

Function

- Dedicated fever screening system (HW/SW)
- Super easy to install and configure (Plug & Play)
- Simple and powerful operation software
- Competitive Total Cost of Ownership design
- Friendly user experience consideration
- Max. 10 people simultaneous fever screening
- Alarming function when detecting abnormality
- AI based face detection to reduce false alarm

OPERATING PROCESS & TIPS



- Effective detecting distance is 3~5m
- Automatic temp detection with face only
- Simultaneously measure people & stored in DB
- From the data base, easy retrieving function
- When detecting higher temp, an alarm goes off
- Easy to install: tripod or Fixed installation(Optional)
- Easy to update by software
- Easy maintenance by cartridge design



* Specifications and images are subject to change without notice.

SPECIFICATIONS * Specifications are subject to change without notice.

THERMAL IMAGING CAMERA

Sensor type	Uncooled detector
Resolution	384 x 288
Spatial band	8 ~ 14 μ m
Pixel pitch	17 μ m
NETD	<50mK
Lens focal length	9.7mm
Aperture	F/1.0
Field of View	38.5(H) $^{\circ}$ \times 28.5(V) $^{\circ}$
Color map	White hot, Black hot, Iron, etc

VISIBLE CAMERA

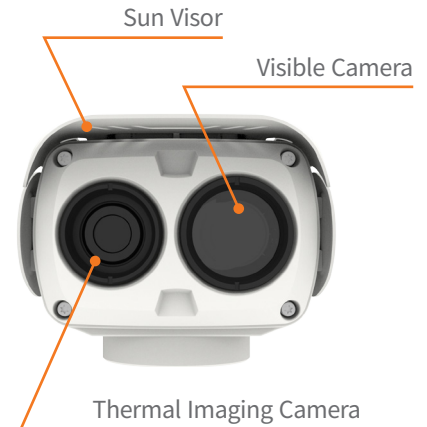
Sensor type	1 / 2.8 inch CMOS Sensor
Resolution	Full HD, 1920 x 1080
Focal Length	6mm
AE	Support
AWB	Support
Min. Illumination	0.01Lux

TEMPERATURE MEASUREMENT

Measurement Range	20 $^{\circ}$ C~40 $^{\circ}$ C
Measurement Accuracy	\leq 0.3 $^{\circ}$ C (with blackbody) \leq 0.5 $^{\circ}$ C (without blackbody)
Detection distance	3~5m
Face Detection	automatic area set with face detection to reduce false alarm

GENERAL

Power Input	DC 5V for USB power
Power	\leq 5W
Size	147mm x 114mm x 165mm
Weight	1.4Kg



Black-Body Specification

- Temperature range: 30 $^{\circ}$ C~50 $^{\circ}$ C
- Target diameter : 72 mm x 72 mm
- Accuracy : \pm 0.2 $^{\circ}$ C
- Emissivity : Infrared camera set at 0.97
- Size : L 180mm x W 110mm x H 110mm
- Net weight : About 1.4 Kg
- Input Power : DC24V, 90W
- Free Voltage Adaptor : 110~240V 50/60Hz

System Specification

- Windows 10 PC required
- PC based operation SW
- Automatic temp adjustment with black body
- Normal temp detected list with thumbnail
- Over temp detected list with thumbnail

SYSTEM CONFIGURATION



OPTION



Laptop

- Processor : Intel core i5
- RAM : 8GB
- USB Port



Tripod

- Diameter 35mm
- Height 1M~3M
- Payload 5kg
- Weight 1.95kg
- 1/4 inch Screw type Spigot



USB LED Lamp

- USB DC 5V
- Diameter : \varnothing 56 x 406mm
- LED Light / Buzzer Sound output