Suprema Thermal Camera

Temperature Detection Module

Suprema Thermal Camera can be used in combination with Suprema face recognition terminals* to detect users with elevated skin temperature.

- Suprema face recognition terminals designate the upper face area, enabling Suprema Thermal Camera to measure the most accurate skin temperature.
- Suprema face recognition terminals display the temperature on GUI raising alerts when a higher than threshold temperature is detected.
- Suprema Thermal Camera connects via USB interface making deployment quick and easy on new and retrofit installs.

*Face recognition terminals must be purchased separately.

Disclaimer: Suprema products are not used to diagnose any medical conditions. Suprema thermal cameras can identify individuals with skin temperature higher than a preset figure but should not be solely or primarily relied upon to diagnose or exclude a diagnosis of COVID-19, or any other disease. Only a licensed medical professional can determine if a person with elevated skin temperature is symptomatic of a specific medical condition.

suprema
SECURITY & BIOMETRICS

Suprema Thermal Camera
Temperature Detection Module

Benefits at a glance

Enhanced security and safety
· Combination of face recognition and skin temperature measurement
· Audio and visual alerts with optional alarm
· Bypass mode for skin temperature measure only
· Temperature data can be optionally saved as event logs

Accurate temperature measurement
· Enhanced accuracy by measuring from upper face area designated by Suprema face recognition terminals
· Fast and precise measurement using thermographic camera with 19,200 pixels per frame
· Does not require reference blackbody to measure temperature

Easy deployment
· Easy connection with Suprema face recognition terminals via USB
· Comes with a bracket for convenient deployment on new and retrofit installs

Ergonomic design for convenience
· Supports extended height range of 145 cm-210 cm for face recognition and distance of 50 cm-130 cm* for temperature measurement
· Intuitive GUI for notifications
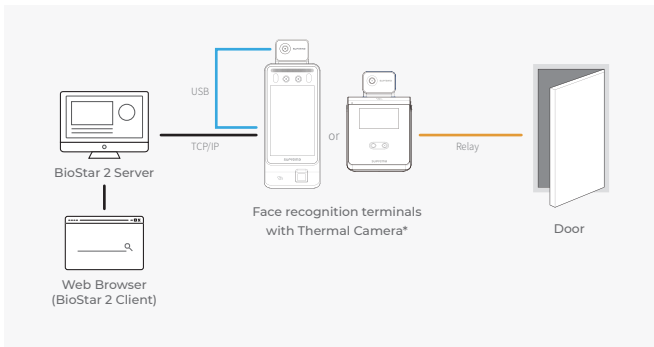· Temperature can be displayed both in Celsius and Fahrenheit
*When used with FaceStation F2

Specifications

Part Code	TCM10-FSF2	TCM10-FS2
Compatible Face Recognition Terminal	FaceStation F2	FaceStation 2
Max. Resolution	120 x 160 (19,200 pixel)	
Frame Rate	8fps	
NETD (Noise Equivalent Temperature Difference)	≤ 50 mK (@25°C, F# = 1.0)	
Field of View	37.2° x 50° (H × V)	
Temperature Range	30°C to 45°C	
Temperature Accuracy*	≤±0.5°C(0.9°F)*/±0.3°C (0.5°F)**	
Temperature Distance	50 cm–130 cm	40 cm–80 cm
Interface	USB	
Operating Temperature	0°C–50°C	
Dimensions	Camera: 77 mm x 46 mm x 22.2 mm (3.03" x 1.81" x 0.87") Camera with bracket: TCM10-FSF2-ODB: 109.89 mm x 315.69 mm x 13 mm (4.33" x 12.43" x 0.51") TCM10-FSF2-DB: 109.89 mm x 283.39 mm x 13 mm (4.33" x 11.16" x 0.51")	Camera: 77 mm x 46 mm x 22.2 mm (3.03" x 1.81" x 0.87") Camera with Bracket: 139.84 mm x 163.8 mm x 22.8 mm (5.51" x 6.45" x 0.90")

*For ±0.5°C accuracy, use the device:
· In recommended ambient temperature (10°C to 35°C or 50°F to 95°F)
· 90 minutes after turning on for self-calibration
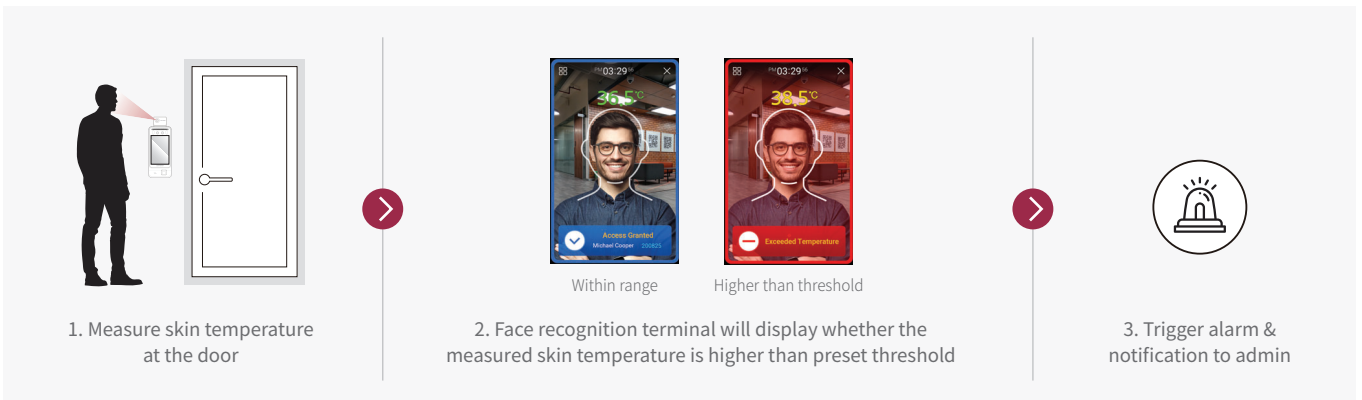**According to KOLAS (Korea Laboratory Accreditation Scheme) calibration certificate

System Configurations

BioStar 2 Server

Web Browser (BioStar 2 Client)

USB

TCP/IP

Face recognition terminals with Thermal Camera*

Relay

Door

Supported Products

FaceStation F2

FaceStation 2

Operation Example

1. Measure skin temperature at the door

Within range
Higher than threshold

2. Face recognition terminal will display whether the measured skin temperature is higher than preset threshold

3. Trigger alarm & notification to admin