

5G Cloud Infrared Temperature Measurement System

CSGT-GD-CM100G

Data Sheet version 1.0



The 5G Cloud Intelligent Infrared Temperature Measurement System, developed by Cloudminds technology and Guide Infrared, applied high level infrared thermal imaging technology of Guide Infrared, which provides quick non-contact temperature screening in crowded public areas. Once it detects febrile people, will automatically alarm and capture the pictures for storage. This system is supported by Cloudminds cloud AI HARIX platform, which can implement infrared alarm based on face/mask recognition, etc., in order to complete big data analysis through the cloud, providing safe entrance prevention and screening capabilities in various application scenarios.

Application Scenarios

- Enterprise/Office building
- Shopping mall/Supermarket
- Hospital/School
- Airport/Train station/Subway station

Features

- Self-developed infrared uncooled vanadium oxide detector, accuracy up to $\pm 0.3^{\circ}\text{C}$
- Smart face recognition, reduces misjudgements
- Screening of human body temperature, automatically photograph and position fever target after alarm
- Automatic temperature correction and alarm threshold adjustment
- Historical data can be queried by computer

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CONSTRUCTION

Dimension	IR detector: 174mm (L) x 153 mm (W) x 81.5 mm (H) Pole (H): 1710 mm Assemble (H): 1945 mm
IR detector packing dimension	510 mm (L) x 440 mm (W) x 270 mm (H)
Total weight	≤ 40 kg
Working temperature	-10°C - 50°C
Storage temperature	-20°C - 60°C
Working humidity	< 90% (no condensation)
Shock	30g 11ms, IEC60068-2-27
Vibration	10Hz - 150Hz - 10Hz 0.15mm, IEC60068-2-6
Interface between PC and detector	Two-way network interface RJ45, single-way power interface
Interface between PC and server	Single-way network interface RJ45

SENSOR

Infrared Sensor

Resolution	120 x 90
Pixel size	17 μm
Field of view	50° ± 1
Frame rate	25 Hz

Visible Camera

Resolution	2MP, 1920 x 1080 1.3MP, 1536 x 864
Focal distance	2.8 mm
Field of view (Horizontal)	97.4°
Frame rate	25 Hz

Black Body

Preset temperature range	32°C - 50°C
Test calibration temperature range	33°C - 55°C

Effective radiation surface	9.5 x 9.5
Temperature resolution	0.1°C

Accuracy

Measurement range	20°C - 50°C
Measurement accuracy (environment temperature 16°C - 32°C)	± 0.5°C (target distance 1.0 m - 1.5 m, target temperature 32 - 42°C)

POWER SUPPLY

Input voltage	DC 12V
Input power	≤ 12 W

SOFTWARE FUNCTIONS

Parameter setting	Video setting, alert sensitivity setting, shield setting
Face recognition	Smart face recognition, support visible light and infrared face recognition
Temperature measurement	Face recognition area shows the highest temperature, infrared / visible light image temperature cursor overlay
Alarm	Automatically taking photos, and sound an alarm
Historical data	Support online query and management
Body temperature correction	Automatic correction