



弘軒科技有限公司 / GRANDTEK INSTRUMENTS CO., LTD.

■地址：104台北市中山區松江路185號6樓之4 (605室)

Rm. 605, 6F.-4, No.185, Songjiang Rd., Taipei (104), Taiwan (R.O.C.)

Tel: 886-2-2515-9446 Fax: 886-2-2500-6552

Website: <http://www.gti.tw> 統一編號: 80468528

GW160-T Thermal Imaging Temperature Measuring System

Features:

The product integrates high-sensitivity infrared camera, high-definition visible light camera, high-precision blackbody, high-performance face temperature measuring engine and artificial intelligence algorithm, with compact structure, easy installation and simple use.

GW160-T is based on artificial intelligence algorithm and infrared thermal imaging temperature measurement technology, which can quickly screen and alert the heating symptoms of the crowd, and accurately display the maximum temperature value of the face area. The equipment is widely used in airports, stations, schools, hospitals, factories, shopping malls and other large public places.

The system automatically detects, captures and recognizes human faces, detects human forehead temperature at millisecond level, and automatically calibrates the temperature measurement accuracy, forehead temperature and armpit temperature in real time. The human body temperature measurement accuracy is $\pm 0.3^{\circ}\text{C}$. It can be seamlessly connected with the face recognition cloud platform, accurately identify and count the number of people passing by, and quickly analyze and display the temperature of individual people.

Product Appearance:





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Product Advantages:

- Good for long-distance human body temperature detection, temperature measuring distance is about 1.5 m ~ 5 m.
- The product integrates high-sensitivity infrared camera, high-definition visible light camera, high-precision black body, high-performance face temperature measuring engine and artificial intelligence algorithm.
- No need computer, can be directly connects with the monitor.
- The product comes with black body, the body temperature automatic, intelligent calibration algorithm, fearless environment temperature change on the influence of thermal imaging temperature measurement.
- Accurate temperature algorithm, can filter the interference of environmental temperature.
- Seamless docking with the cloud server, easy connection, remote real-time monitoring center, big data analysis.

Equipment Parameters:

Thermal imaging module:

- Temperature measuring range: 30 °C to 50 °C (high-gain mode), 0 °C ~ 550 °C (low-gain mode)
- 160 * 120 resolution output (384 * 288 optional)
- View in full screen temperature measurement, automatic tracking face temperature measurement;
- Thermal sensitivity(NETD): $\leq 60\text{mK}$ (F/1,300K, 50Hz) Pixel Size: 12 μm
- Support contactless temperature measurement, and export human data storage;

Visible light module:

- Maximum resolution can reach 1920 x1080 @ 30 FPS;
- 0.005 lux@f1.2 color, 0.001 lux@f1.2 black and white;
- 1/2.8 "2.0 M CMOS image sensor;



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General functions:

- Instrument temperature precision is $\pm 0.3^{\circ}\text{C}$, suitable for long distance measurement of large flow and large area
- Non-inductive temperature measurement, the measurement can be made without full knowledge of the subject being measured
- System has strong operability, flexibility, scientific and multi-platform control and display;
- Support secondary development.

The installation drawing:



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Configuration parameters:

A-The LCD:

LCD:	LED Screen
Screen size:	43 inches
Resolution:	1920*1080
Overall dimension:	991.2*579.4 *65 mm
Distance:	01615*0.4845mm
Horizontal frequency:	121KHZ-140KHZ
Vertical	108HZ/122HZ



frequency:	
FOV:	Horizontal:178° Vertical:178°
Color:	167,700 Hi-Fi Color
Tube life:	50000H
Average brightness:	500cd/m2
Contrast:	1400:1
Storage temperature:	-20°C ~ 40°C
Operating temperature:	0°C ~ 40°C
Response time:	8-12 (tr/ta) ms

B-Visible light module:

Resolution	200 megapixels
Focal length	6mm
Imaging device	CMOS
Minimum Illumination	0.01Lux (Color Mode)-0.001Lux(Black and White Mode)
SNR	>56dB
Voltage	5.5V access

C-Thermal imaging module:

Resolution	160 * 120 resolution output (384 * 288 optional)
Thermal sensitivity(NETD)	≤60mK (F/1,300K, 50Hz) Pixel Size: 12 μm
Temperature measuring range	30 °C to 50 °C (high-gain mode), 0 °C ~ 550 °C (low-gain mode); full screen temperature measurement, automatic tracking face temperature measurement;
Temperature precision	±0.3°C

D- mainboard

SOC	Broadcom BCM2711
CPU	64-bit 1.5GHz quad-core CPU (28nm process)
GPU	Broadcom VideoCore VI@500Hz
Bluetooth	Bluetooth 5.0
USB interface	USB interface 2.0*2/USB interface 3.0*2
HDMI	Micro HDMI*2 support 4K60
Power supply	(5.5V 3A)
Network	Wifi 802.11AC,Gigabit Ethernet
Multimedia	H.265(4Kp60 decode); H.264(1080p60 decode,1080p30 encode); OpenGL es,3.0 graphics);