



# **PSGMT490, Online dual-light temperature measuring cloud head Technical Specification**



## 1. system survey

PSGMT490 dual-spectrum head is a dual-spectrum T-type high-speed head, equipped with infrared thermal imaging and high-definition visible light, small size, light weight and wide monitoring range. It can be installed on mobile robots, and is widely used in substation, power distribution room, factory inspection and other scenarios.



## 2. Product features

Using a three-closed-loop control system, with a wide speed dynamic range, large Angle acceleration;

Support the market mainstream network movement, support wireless antenna transmission;

T-type double warehouse load form, compact structure, small volume;

Dual-optical fusion target detection and positioning, accurate target positioning;

With the position locking function, in the case of external disturbance can be quickly restored;

High-precision absolute Angle sensor, high positioning accuracy;

Support for 12VDC, 24VDC, 24VAC power supply;

Worm transmission, with self-locking function;

IP67 Protection level, built-in 4000V lightning protection, wave prevention and surge protection.

## 3. function

Self-test function: automatic self-test, enter the working mode after self-test;

Basic motion function: manual control of multi-level speed adjustable;

Number of user preset bits: 255 preset bits, positioning function: absolute Angle positioning;

Scan mode: preset bit point by point scan, adjustable preset bit residence time, adjustable scan speed;

With the position holding function, the abnormal external force interference caused by the offset can quickly recover;

Dual-light real-time image display function, which can simultaneously display both visible light and infrared real-time video;

Observe the target temperature measurement function, and can measure the target temperature through infrared thermal imaging;



Temperature abnormal alarm, temperature abnormal point positioning function;

#### 4. Main technical indicators

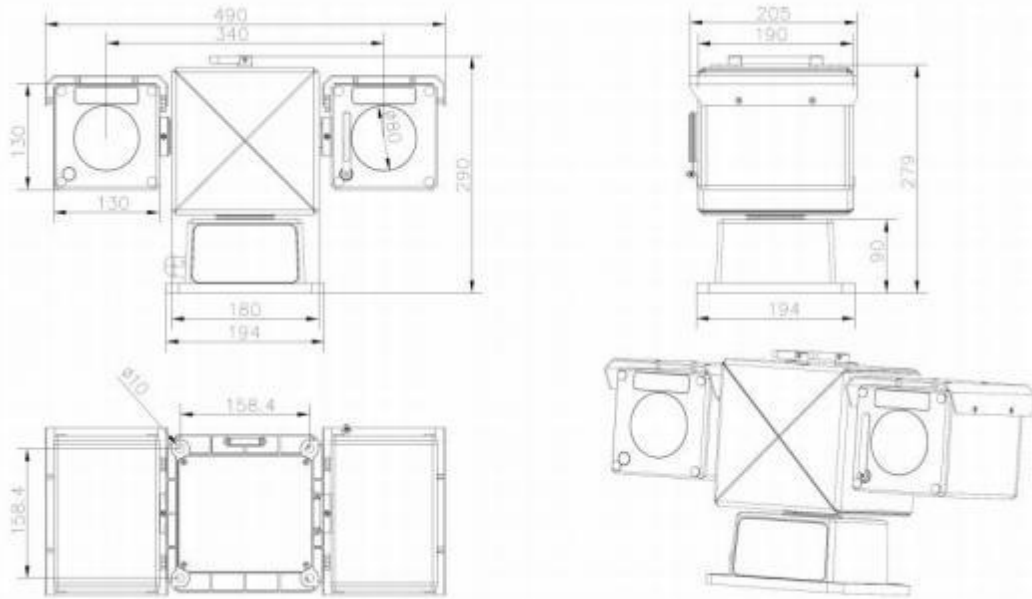
Table 1 Main technical indicators of online dual-optical temperature measurement cloud head

order number	Technical indicators	Indicator parameters
1	Infrared detector type	Uncooled focal plane detector
2	resolution ratio	640×512/384×288
3	Optical focal length	8mm, 12mm, 13mm, 19 mmm (optional)
4	Temperature measurement range	-20°C~ 150°C
5	temperature measurement accuracy	± 2°C or 2%
6	Visible light detector type	1/2.8" CMOS
7	Visible optical resolution	200W, 300W, 500W, etc. (optional)
8	Visible light focal length	F. F = 6.1 ~ 317.0mm, 52 x optical zoom (optional)
9	Cloud platform type	T-type with bilateral load
10	Transmission form	Precision straight gear drive
11	slew range	Horizontal 360 ° continuous rotation, pitch ± 90 °
12	rotational speed	Level 0.1 to 50 ° / s and pitch 0.1 to 50 ° / s
13	Repeat positioning accuracy	±0.15
14	Remote upgrade	At the same time support models and cloud head remote upgrade
15	communicating protocol	PECLO+VISCA
16	Automatic cruise	Support, focal length and cloud head speed matching, 8 cruise scanning
17	Real-time Angle back	Support real-time angle return or query angle return
18	Preset point \ cruise line	Support for 255 preset bits
19	electromagnetic compatibility	Meet the requirements of GB / T 17626, in the following
20	CI	1 route adaptive RJ 45, Ethernet port
21	RS485, the controller interface	Support the adaptive Pelco-P, Pelco-D, Baud rate 2400, etc 4800,9600, and 19200 are optional
22	external input	2-way alarm input
23	output port	2-way alarm output / 1-way relay output
24	API	Support ONVIF2.0, GD28181 protocol, support SDK and third party, platform access

25	Power supply range	DC12V ,5.0A/DC24V ,6A
26	power dissipation	88W (minimum) / 140W (infrared lamp ON, low temperature start)
27	size	L490.0mm×W205.0mm H350mm (Bilateral)
28	weight	10kg
29	operating ambient temperature	-40°C~+60°C
30	Humidity of working environment	0~95% (no condensation)
31	levels of protection	IP67, built-in 4000V lightning protection, surge protection and surge protection



## 5. outline dimensional drawing





## About Hua Jingkang

Wuhan Huajingkang Optoelectronic Technology Co., Ltd. is located in Wuhan East Lake High-tech Development Zone, is a high-tech enterprise focusing on the research and development and promotion of infrared thermal imaging products and application. It is committed to the combination of infrared thermal imaging products and the Internet of Things + artificial intelligence, to achieve the high degree of intelligent and networked products.

Company team engaged in infrared thermal instrument product research and development and application research for more than ten years, is huazhong university of science and technology, Wuhan university of technology, university-university-research cooperation demonstration base, and Shenzhen university, Zhejiang university of Chinese medicine, institute of respiratory diseases, and many other institutions extensive infrared application research, explore and realize the industry transformation.

The company has passed 3A credit rating certification, with ISO9001 quality management system, high-tech enterprise, double soft enterprise certification; the company has core intellectual property rights such as invention patent, utility model patent and software copyright, and has obtained professional certification such as measurement test certificate, explosion-proof certificate, and software product evaluation and certification.

The company has online infrared thermal imaging thermometer, infrared thermal imaging temperature measuring movement, high speed high frame frequency infrared thermal imager, single light / double light explosion-proof-based online temperature monitoring system, medical grade infrared thermal imager, infrared thermal imaging health management system and other series of products. It is widely used in furnace metallurgy, power grid, petroleum and petrochemical, rail transit, circuit detection, security monitoring, forest fire prevention, uav pod, handheld view, police fire fighting, machine vision, scientific research, medical health and other fields.

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