



PSGT320 Online Dual Light Temperature Measurement PTZ Technical Specifications

一、 System Overview

The PSGT320 dual-spectrum PTZ is a dual-spectrum T-shaped high-speed PTZ equipped with infrared thermal imaging and high-definition visible light. It is small in size, light in weight, and has a wide monitoring range. It can be installed on a mobile robot and is widely used in substations, distribution rooms, factory inspections and other scenarios.



二、 Features

- ◆ Using three closed-loop control system, it has wide velocity dynamic range and large angular acceleration;
- ◆ Advanced control algorithms enable the gimbal to have ultra-low standby and operating power consumption;
- ◆ T-type double-compartment loading form, compact structure and small size;
- ◆ Dual-light fusion target detection and positioning, accurate target positioning;
- ◆ Equipped with position locking function, it can quickly recover in case of external disturbance;
- ◆ High-precision absolute angle sensor with high positioning accuracy;
- ◆ Wide power supply voltage, with surge and surge protection capabilities;
- ◆ IP66 protection level, all-weather indoor and outdoor operation.

三、 Function

- ◆ Self-check function: automatic self-check after power on, and enter



working mode after self-check is completed;

- ◆ Basic motion functions: manual control with adjustable multi-level speed;
- ◆ Number of user preset positions: 255 preset positions, positioning function: absolute angle positioning;
- ◆ Scanning mode: preset position scanning point by point, adjustable preset position dwell time, adjustable scanning speed;
- ◆ With position holding function, it can quickly recover after deviation caused by abnormal external force interference;
- ◆ Dual-light real-time image display function, which can display visible light and infrared real-time video at the same time;
- ◆ Observe the target temperature measurement function, which can measure the target temperature through infrared thermal imaging;
- ◆ Abnormal temperature alarm and abnormal temperature point positioning function;

四、 Main technical indicators

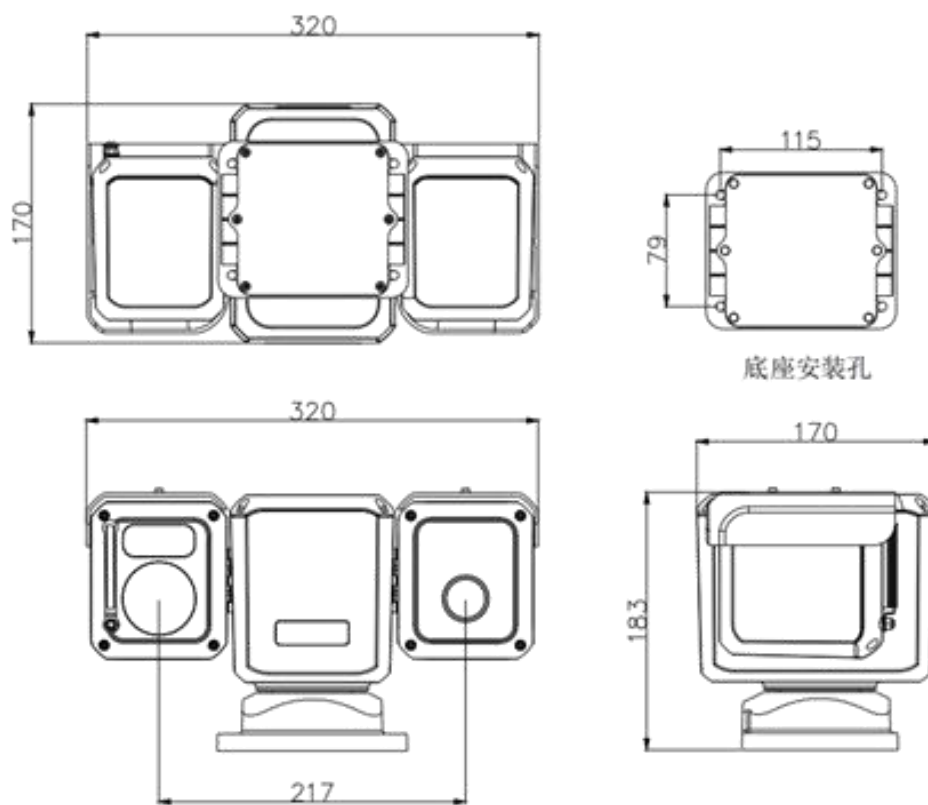
Table 1 Main technical indicators of online dual-light temperature measurement PTZ

Serial number	Technical indicators	Indicator parameters
1	Infrared detector type	Uncooled focal plane detector
2	Resolution	640×512/384×288
3	Optical focal length	8mm, 12mm, 13mm, 19mm (optional)
4	Temperature measurement range	-20℃~150℃
5	Temperature measurement accuracy	±2℃ or 2%
6	Visible light detector type	1/2.8" CMOS
7	Visible light resolution	2048×1536
8	Visible light focal length	4.8-120mm, 25x optical zoom (optional)
9	PTZ Type	T-type double-side load
10	Transmission form	Precision spur gear drive
11	Rotation range	360° horizontal continuous rotation, ±90° pitch
12	Rotation speed	Horizontal 0.17~100° /s, Tilt 0.17~80° /s
13	Maximum acceleration	Horizontal 300° /s ² , Tilt 240° /s ²
14	Angular position accuracy	0.1°
15	Communication Protocol	PECLO-D, PECLO-P or custom protocol
16	Real-time angle feedback	Support real-time angle transmission or query



		angle transmission
17	Preset points\cruise routes	Support 255 preset positions
18	Power supply range	$24 \pm 4V$
19	Power consumption	Standby power consumption $\leq 4W$, maximum operating power consumption $\leq 8W$
20	volume	Length \times width \times height: $320 \times 170 \times 170$ mm
twenty one	weight	$\leq 5Kg$
twenty two	Operating temperature range	$-20^{\circ}C \sim +60^{\circ}C$
twenty three	Protection level	IP66
twenty four	Electromagnetic compatibility	Meet all requirements of GB/T 17626

五、 Dimensions





About Huajingkang

Wuhan Huajingkang Optoelectronics Technology Co., Ltd. is located in East Lake High-tech Development Zone, Wuhan City. It is a high-tech enterprise focusing on the research and development and promotion of infrared thermal imager products and applications. It is committed to combining infrared thermal imager products with the Internet of Things + artificial intelligence to achieve highly intelligent and networked products.

The company's team has been engaged in the development and application research of infrared thermal imager products for more than ten years. It is a demonstration base for industry-university-research cooperation of universities such as Huazhong University of Science and Technology and Wuhan University of Technology. It has carried out extensive and in-depth infrared application research with many institutions such as Shenzhen University, Zhejiang Chinese Medical University, and the Institute of Respiratory Diseases to explore and realize industrial transformation.

The company has passed the 3A credit rating certification and has ISO9001 quality management system, high-tech enterprise, dual-soft enterprise and other certifications; the company's products have core intellectual property rights such as invention patents, utility model patents, software copyrights, and have obtained professional certifications such as measurement and testing certificates, explosion-proof certificates, and software product evaluation certification.

The company has a series of products including online infrared thermal imaging thermometers, infrared thermal imaging temperature measurement movements, high-speed and high-frame-rate infrared thermal imagers, single-light/dual-light explosion-proof online temperature measurement monitoring systems, medical-grade infrared thermal imagers, infrared thermal imaging health management systems, etc. They are widely used in furnace metallurgy, power grid, petroleum and petrochemical, rail transportation, circuit detection, security monitoring, forest fire prevention, drone pods, handheld sights, police firefighting, machine vision, scientific research, medical health and other fields.



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