



PDGMT342 Online Single Light Temperature Measurement PTZ Technical Specifications



一、 System Overview

The PDGMT342 single-spectrum pan/tilt head is a T-shaped high-speed pan/tilt head equipped with infrared thermal imaging. It has a small size, light weight, and 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;
- ◆ Support full network 2G/3G/4G;
- ◆ Equipped with position locking function, it can quickly recover in case of external disturbance;
- ◆ The minimum power consumption of the whole machine is $\leq 3\text{ W}$;
- ◆ IP67 protection level, built-in 4000V lightning protection, surge protection and surge protection;
- ◆ Built-in intelligent defrosting and defogging components, support configuration of water tanks and nozzles, and remote window cleaning;
- ◆ Precision machining, high reliability and long life.

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;
- ◆ Real-time image display function, can display infrared real-time video;
- ◆ 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

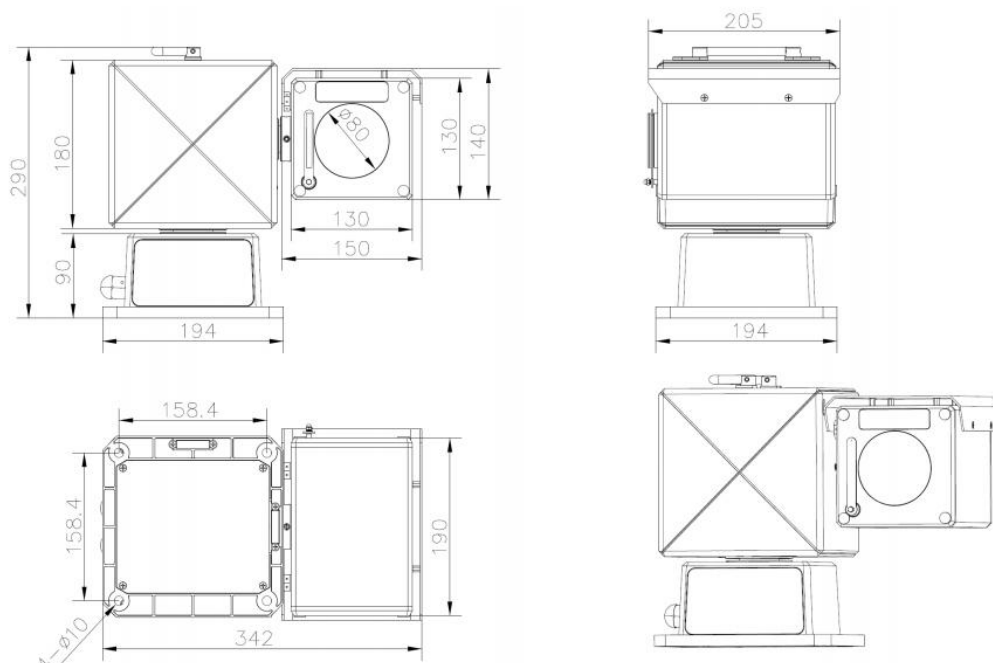
Table 1 Main technical indicators of online temperature measurement PTZ

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	PTZ Type	T-type single-side load
7	Transmission form	Precision spur gear drive
8	Rotation range	360° horizontal continuous rotation, ±90° pitch
9	Rotation speed	Horizontal 0.1~30°/s, Tilt 0.1~30°/s
10	Repeat positioning	0.15
11	Remote upgrade	Supports remote upgrade of both models and PTZ
12	Communication Protocol	PECLO+VISCA
13	Automatic cruise control	Support, focus and PTZ speed matching, 8 cruise scans
14	Real-time angle feedback	Support real-time angle transmission or query angle transmission
15	Preset points\cruise routes	Support 255 preset positions
16	Communication interface	1 adaptive RJ45 Ethernet port
17	RS485 controller interface	Supports adaptive Pelco-P, Pelco-D and other protocols, baud rate 2400, 4800, 9600, 19200 optional
18	External Input	2 alarm inputs



19	Output Port	2 alarm outputs/1 relay output
20	Application Programming Interface	Support ONVIF2.0, GD28181 protocols, support SDK and third-party platform access
twenty one	store	Supports MicroSD/SDHC/SDXC card storage up to 256G
twenty two	power supply	DC12V/3.0A
twenty three	Power consumption	Standby power consumption $\leq 3\text{W}$, maximum operating power consumption $\leq 8\text{W}$
twenty four	size	L342.0mm×W205.0mm×H290mm
25	Product Weight	8kg
26	Loading weight	$\leq 4\text{Kg}$ (including movement protective cover)
27	Carrying method	Sideload
28	Operating temperature	$-40^{\circ}\text{C}\sim+60^{\circ}\text{C}$
29	Working environment humidity	0~95% (no condensation)
30	Protection level	IP67, built-in 4000V lightning protection, surge protection and surge protection
31	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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