

QZ130T

3-axis Three-sensor Target Location Electro-optical Pod



QZ130T, 3-axis three-sensor target positioning pod integrates a 30x optical zoom visible light camera, a 640×512 high-resolution infrared camera, a semiconductor laser range finder with a maximum range of 1.2 km, and a three-axis platform frame with high stable accuracy, seamless switching between day and night work, providing professional and reliable capability support for industry-level UAV to complete tasks such as patrol inspection, security, and search & rescue. It can collect images from a long distance and locate points of interest. 1080P full HD video can output visible light and infrared video in real time.

Features

- ◆ Able to detect targets freely from far to near
Choose an excellent 30 times visible light camera, the image is stable and clear;
- ◆ Accurate target detection at night, temperature detection perfectly
Professional and high-sensitivity infrared thermal imaging, nighttime targets can also be observed accurately, and the temperature detection is intuitive and accurate;
- ◆ Omni-directional target tracking, stable and reliable
Excellent high-precision inertial stabilization platform, 360° continuous unobstructed, visible light and infrared dual-channel target tracking;
- ◆ Military-grade environmental adaptability
Military-grade alloy components and industrial-grade devices are suitable for various harsh industrial application environments;
- ◆ Small in size, light in weight, and powerful in function
Precise optical-mechanical-electrical integration design, smaller, lighter, and more powerful in the same level of products;
- ◆ Rich interfaces, strong compatibility
Communication supports RS422, RS232, S.BUS, video supports HDMI, SDI, synchronous 422, Network.

Application

- Police law enforcement, Power inspection, Security inspection, Rescue & search, Fire fighting.

Technical Parameters

Thermal Infrared Imager	
Detector Type	Uncooled focal plane
Detector Resolution	640 × 512
Lens Focal Length	35mm
Field of View	1.2° × 1.0° (± 5%) / 17.7° × 14.2° (temperature measurement version)
Pseudo Color	6 types
Digital Zoom	1 to 4 X infinite magnification / ×2, ×4 (temperature measurement version)
Temperature Range	-20 °C ~ 150 °C or -20 °C ~ 550 °C (temperature measurement version)
Temperature Measurement Accuracy	± 2K or 2% (temperature measurement version)
Image Storage	Full temperature data (temperature measurement version)
Video Storage	Full temperature data (temperature measurement version)
Visible Light	
Resolution	1920 × 1080
Lens Focal Length	4.3mm ~ 129mm
Horizontal Field of View	63.7° ~ 2.3°
Zoom	Optical zoom: 30X; hybrid zoom 60X
Laser Rangefinder	
Wavelength	905nm
Maximum Range	≥ 1.2 km
Ranging Accuracy	≤ 2m
Servo Platform	
Azimuth Angle	360° × n
Pitch Angle	- 115° ~ +90° (upward is positive)
Roll Angle	- 40° ~ + 40°
Image Stabilization Accuracy	≤ 0.1mrad (1σ)
Frame Angle Accuracy	≤ 0.3° (1σ)
System Parameters	
Supply Voltage	+ 20 V ~ + 3.2 V
Power	Stable power consumption: ≤ 30 W
Weight	≤ 1.2 Kg
Dimensions	≤ 131mm × 155mm × 211mm
Positioning Accuracy	≤ 30m (300m)
Interface	
Control Interface	RS422/RS232/S.BUS
Video Interface	HDMI/SDI/synchronous 422/Network TF card 32G (maximum support 128G)
Storage Interface	Temperature measurement version dual card: 1 channel video, 1 channel temperature data
Operating Ambient	
Operating Temperature	-20° C ~ + 50° C (-40° C optional)
Storage Temperature	-40°C ~ + 60°C
Degree of Protection	Can fly in light and moderate rain

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