



QZ07D



3-axis Double Sensor Micro Electro-optical Pod

QZ07D,miniature 3-axis dual-senso inertial stabilization pod, which integrates a 640× 512 high-resolution infrared camera,a 13 million pixels full-HD visible light camera and a gyro stabilization platform.Ultra small size and weight, easy to carry, It has great advantages in scenarios where dual light is required. It can be mounted on a miniature unmanned aerial vehicle to realize visible light and infrared real-time video transmission and close observation, and the ability to work around the clock. It provides professional and reliable capability support for industrial application tasks such as patrol inspection, security and search & rescue.

Features

- ◆Ultra-small size, ultra-light weight
Infrared, visible light and servo system are highly integrated, mini size and weight, suitable for small aircraft;
- ◆ Night observation is also perfect
Professional and high-sensitivity infrared thermal imaging, nighttime targets can also be observed accurately;
- ◆ All-round target tracking, stable and reliable
Excellent inertial stabilization platform technology, visible light and infrared dual-channel target tracking;
- ◆ Adapt to various harsh environment
Alloy components, industrial-grade devices, and adapt to various harsh industrial application environments.

Application

- Miniature UAV, unmanned vehicles, unmanned boats and other unmanned observation equipment.
- Police law enforcement, Power inspection, Security inspection, Rescue &search, Fire fighting.

Technical Parameters

Thermal Infrared Imager	
Pixel Size	1 2 μm
Detector Pixels	384 × 288 / 640 × 512
Optical Focal Length	9.1 mm (±5%)
Optical F#	1 .0
Field of View	384 : 29.0 ° × 21.7 ° / 640 : 48.3 ° × 38.6 ° (±5%)
Video Frame Rate	2 5 Hz
Visible Light	
Number of Pixels	4K (3840*2160)
Pixel Size	1.12 μm
Lens Focal Length	3.5 mm (±5%)
Field of View	70.4 ° × 39.6 ° (±5%, 1080P)
Video Resolution	1920×1080
Photo Resolution	1920×1080, 3840*2160
PTZ	
Image Stabilization Accuracy	≤0.0 2 ° (disturbance 0.5 ° @ 1 Hz)
Azimuth Angle	- 90 ° ~+ 90 °
Pitch Angle	- 45 ° ~+ 45 °
Roll Angle	- 90 ° ~+ 3 0 ° (frame design - 120 ° ~+ 90 °)
System Parameters	
Dimensions	Pod: 52 mm (length) × 58mm (width) × 63.5 mm (height); Control board : 52mm × 52mm × 15mm Control box (built-in control board): 59mm × 56mm × 2 5.5 mm
Weight	Recommended Configuration: Pod+ Control board (built-in): 7 8 g + 25g ; Optional Configuration: Pod+ Control box (external): 70 g + 60 g.
Power and Consumption	DC 9 V ~DC 15 V@ 3 A; stable power consumption ≤ 1 2 W
Interface	
Control	UartTTL,UDP,SBUS
Video Output	LAN,HDMI
Storage	SD card
Operating Ambient	
Operating Temperature	- 20 °C~+55°C (-40°C~+55°C Optional)
Rain Test	Able to work normally in light rain conditions

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