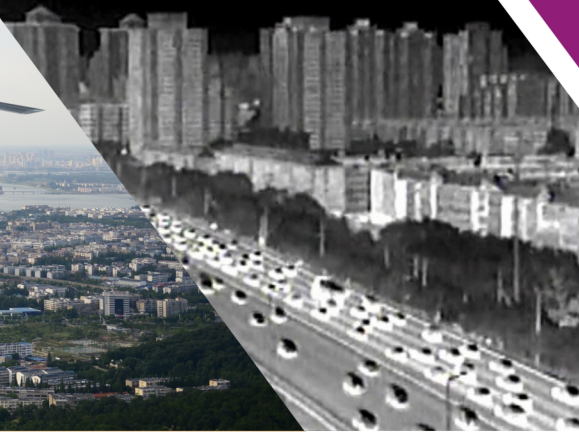


TMS7130A

UAV Payload



TMS7130 payload is miniature, lightweight, electro-optical, stabilized, airborne sensors which are designed to be carried by a small size UAV, and integrated daylight camera, IR camera and stabilized servo platform, total weight is less 2kg. This payload system can be exploring, searching, identifying and even tracking the subject and live date transmission.

Features and Benefits

- Integrated IR camera, daylight camera, laser range finder
- 2-axis Gimbals System, covers all ground-to-air observation
- Advanced mini type module design, high reliability
- 1080P HD color daylight video camera, 10x optical zoom
- Autonomous R&D FPA IR detector and advanced precision imaging system, high quality image
- High precision stabilized image independent of platform maneuvers and vibrations
- Advanced algorithm of object identification tracking, high auto tracking accuracy

Applications

- Power line inspection
- Environmental monitoring
- Forest firefighting
- Law enforcement
- Solar power inspection
- Rescue after disaste



Specifications

IR Thermal Imaging camera	
Detector Type	Uncooled
Resolution	640x512
Focus	Motor-driven
Focal Length	40mm
FOV	18.2°×14.6°(±5%)
Digital Zoom	x1, x2, x4
Color Palettes	Color Palettes and color tape, palette optional
Temperature Range	-20°C~150°C (high version)
Temperature Accuracy	±2°C or 2% (high version)
Daylight Camera	
Type	Visible Video Camera
Pixel	16 Megapixel
Resolution	1920×1080
Focal Length	4.7mm~47mm
Frame Rate	≥25Hz
Zoom	10x optical continuous zooming
Storage Format	JPG, AVI
Laser Range Finder	
Spectral Range	1550nm (human eyes safety)
Ranging Distance	100~1100m (small target)
Distance Accuracy	±2m
Servo System	
Azimuth Angle	-180°~180°
Pitching Angle	-120°~90°
Electrical Interface	
Power	DC20V~26V
Stabilized Power Consumption	≤20W
Video Output	HDMI
Control Interface	RS232 or RS422 (option), 115200 Baud Rate
Physical Characteristics	
Dimension	≤ Φ 132mm×200mm (Diameter × Height) (excluding damper)
Working Temperature	≤2kg (including air damper)
Environmental Adaptability	
Working Temperature	-20°C~55°C

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