



IR521

Multi-functional Uncooled Portable Thermal Imager



Introduce

IR521 integrates with uncooled thermal imager, visible camera, GPS, electronic compass, an eye-safe laser range finder. Can be used for target searching, locates the target's position, and take a photo on earth, sea surface, in forest. It's rugged and portable.

Application

Border Security / Law Enforcement / Patrol / Mission / Target Search

Features and Benefits

- 800×600 high resolution uncooled detector can be combined with visible technology to search, identify the target
- Built-in laser range finder, electrical compass and GPS, can have self localization and target location
- With the integrating function of taking photo, video and reviewing, which can be output by USB
- With external GPS, and two-way Wi-Fi function
- Binocular display, can be contacted with external display device

Specifications

IR521		
IR		
Detector Resolution	800×600 , 17μm , VOx	
Spectral Range	8μm ~ 14μm	
Electronic Focus	70mm	
FOV	10.5°×8.4°(±5%)	
Visible Camera		
Focus	3.63°×2.86°(±5%)	
Resolution	1920×1080	
Working Range	Detection Range	Recognition Range
1.8m×0.5m Human	> 2.0km	> 1.0km
2.3m×2.3m Vehicle	> 3.5km	> 1.8km
Function		
Position Accuracy	≤10m (GPS、 BDS optional)	
Orientation Accuracy	±0.5° (Root Mean Square)	
Ranging	Eye-safe , 2.3m×2.3m typical target measurement ranging not less than 3km , maximum measuring range , for building 5km	
Range Accuracy	≤±5m	
Wi-Fi	Transfer digital video(AVI format) with Wi-Fi	
Image		
Image Enhancement	Auto image filtering and sharp	
Brightness/Contrast	Auto/Manual	
Polarity	White-hot, black-hot , Red-hot, Green-hot	
Digital Zoom	2X	
Video Storage	Built-in 16G SD card , no less than 9000 compressed pictures (JPG) and no less than 2h video (AVI)	
View Finder	OLED 1280×1024, Dioptry adjustment	
Interface		
Electrical Interface	power、 video PAL (NTSC Optional) 、 communication RS232、 Wi-Fi、 USB、 built-in GPS (external connection)	
Mechanical Interface	1/4 inch standard interface	
Power		
Power Input	12V power adapter or 18650 battery(φ 18mm, 65mm long)	
Continuous Working Time By Battery	≥5h (do not change battery)	
Environment Parameters		
Working Temperature	- 40℃ ~ 60℃ (Except for display equipment)	
Encapsulation	IP67	
Electromagnetic Compatibility	GJB 151A-97	
Physical Characteristics		
Weight	≤2.5kg (including battery)	
Size	≤240mm×250mm×115mm	
Attention : The working condition is : visibility, no less than 15km;humidity, no more than 80%;and the target with background temperature difference, no less than 4℃.		