

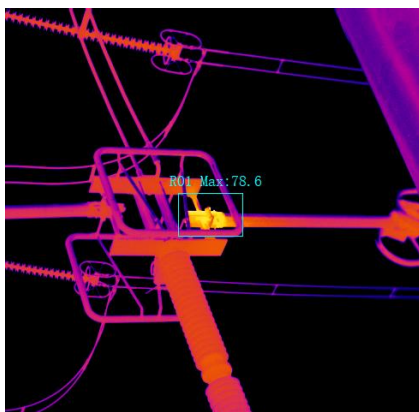
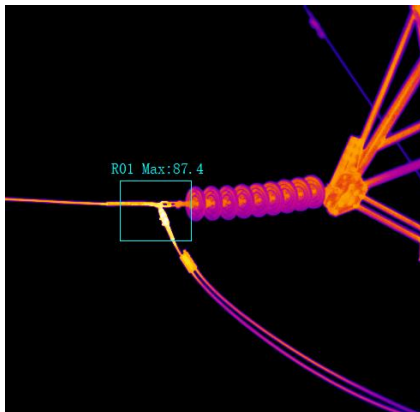
SATIR WS160-WS256

PASSIVE WIRELESS INFRARED MONITORING SYSTEM



The SATIR-WS160-WS256 Passive Wireless Infrared Monitoring System is designed to deliver reliable, continuous thermal monitoring in remote and challenging environments. Offering enhanced performance with an accuracy of $\pm 4^{\circ}\text{C}$, this advanced system ensures dependable temperature detection for critical applications.

Built with IP66-rated waterproof and dustproof housing, it is engineered for durability in harsh outdoor conditions. Powered independently by a solar panel, the system operates efficiently without the need for fixed infrastructure. With 4G wireless image transmission and full support for remote viewing and control, the WS160-WS256 provides a flexible, intelligent solution for modern condition monitoring and predictive maintenance.



Key Features

- $\pm 4^{\circ}\text{C}$ temperature measurement accuracy
- IP66 waterproof & dustproof design
- Solar-powered for independent operation
- 4G wireless image transmission
- Remote viewing & control support
- Ideal for remote and off-grid monitoring
- Reliable for continuous condition monitoring

Specifications

Model	WS160	WS256
Detector type	Uncooled FPA, VOX material	
IR Resolution	160x120	256x192
Thermal Sensitivity/NETO	≤0.05°C@30°C	
Spectral Range	7.5-14μm	
Field of View	56°x42.2°	
Spatial resolution (IFOV)	6.11mrad	3.82mrad
Focus	Fixed	
Focal Length	2mm	3.2mm
Focus distance	1m to infinity	
Visual camera		
Resolution	1920x1080	
Field of View	50.6°x37.7°	
Measurement And Analysis		
Object temperature range	-20°C-+150°C (low temperature range)/100°C-+650°C (medium temperature range)	
Temperature measurement accuracy	±4°C or 4% of readings	
Spot, line and area setting	It can support up to 10 points, 10 boxes and 5 lines at the same time	
Tracking function	Highest temperature spot auto tracking	
Image display		
Temperature trend curve	Support	
Historical infrared image display	Support, Historical infrared images can be analysed twice	
Image storage And Transmission		
Local storage Media	32G SD card	
Remote storage Media	cloud Server storage	
Thermal image format	.jpg (including full temperature data)	
Image transmission mode	Timed transmission to the cloud server via 4G	
Power System		
Battery type	Li-ion battery	
Battery voltage	7.4V	
Battery Capacity	6800mAh	
Charging mode	Solar storage	
Battery operating time	Approx. 15 days at 25°C ambient temperature and typical use without solar charging	
Solar charging duration	Under adequate light conditions, Battery charge from 0% to 100% approx. 60 hours	

Operating power consumption	≤3W
Standby power consumption	≤0.01W
Environmental Parameters	
Protection level	IP66
Operation temperature	-20°C- 55°C
Physical Characteristics	
Weight	1.27kg (battery included)
Size	253x136x105mm (4G/WIFI antenna not included)

Please be aware specifications can vary from time to time