

SATIR WS384-WS640

WIRELESS DETECTION SYSTEM FOR MULTI-FUNCTION EQUIPMENT STATUS

The SATIR-WS384-WS640 Wireless Detection System for Multi-Function Equipment Status Monitoring is engineered to provide high-precision, real-time insights across a wide range of industrial applications. Delivering enhanced performance with the accuracy of $\pm 2^{\circ}\text{C}$, this advanced system enables early detection of faults and supports effective predictive maintenance strategies.

Its robust IP66-rated waterproof and dustproof design ensures reliable operation in harsh environments, while the solar-powered, independent energy supply allows for flexible deployment in remote or off-grid locations. With 4G wireless image transmission and full remote viewing and control capabilities, the WS384-WS640 offers a smart, efficient solution for continuous equipment monitoring and operational safety.

Key Features

- $\pm 2^{\circ}\text{C}$ 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	WS384	WS640
Detector type	Uncooled FPA, VOX material	
IR Resolution	384x288	640x480
Thermal Sensitivity/NETO	≤50.06°C@30°C	≤50.04°C@30°C
Spectral Range	7.5-14μm	
Field of View	50.8°x37.1°	45.4°x34.8°
Spatial resolution (IFOV)	2.61mrad	0.67mrad
Focus	electric	
Focal Length	6.5mm	13mm
Focus distance	0.5m to infinity	
Image frequency	25Hz	
Measurement And Analysis		
Object temperature range	-20°C-+150°C (low temperature range)/0°C-+410°C (medium temperature range)	
Temperature measurement accuracy	±2°C or 2% 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	24Ah	
Charging mode	Solar storage	
Battery operating time	Approx. 45 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 120 hours	
Operating power consumption	≤ 54W	

Standby power consumption	50.01W
Environmental Parameters	
Protection level	IP66
Operation temperature	-20°C- 55°C
Physical Characteristics	
Weight	3.5kg (battery included)
Size	276x140x136mm (4G antenna not included)

Please be aware specifications can vary from time to time

