

A white, dome-shaped monitoring device with two lenses, mounted on a metal bracket and attached to a power line. The background shows a blurred view of electrical equipment.

# GUIDIR® IR239B Smart Electric Monitoring System

The IR239 intelligent online thermal monitoring system utilizes advanced thermography technology to monitor a variety of devices found in electrical substations: main transformer, GIS Switchgear, High Voltage Switchgear, control room etc. Infrared imaging allows for non-contact imaging of surface radiation from a large distance and without electric field interference. It fully meets the standards for power station infrastructure monitoring and for unattended continuous monitoring. At the same time it is used to provide guidance based on abnormalities for regular substation inspections. This all results in improved substation timeliness, cost savings and an effective reduction of substation accidents.

## Features and Benefits

01

- Sealed cover design to meet the requirements of long-term outdoor use.
- 24/7 continuous operation reduces the need for human intervention.
- Monitor a wider range with less installations through automatic PTZ Patrol and 50 preset positions.
- Side-by-side visual verification of the thermal image through the included visible camera.
- Choose to focus in steps or autofocus for greater ease of use.
- The modular design allows for easy features upgrades and maintenance.

## Applications

02

Continuous real-time monitoring on power equipments, such as the main transformer, GIS, high voltage switch cabinet in large substation, provide unmanned remote inspection to avoid accidents caused by failures or breakdown of the above-mentioned equipments.



# Specifications

Detector	384*288
Pixel size	25um
Spectral range	8~14um
NETD	≤120mK
Type	40mm
FOV	13.7° x 10.3°
Focusing	Motorized manual/Auto focus
Temperature range	With attenuator: 0°C ~+150°C Without attenuator 150°C ~+350°C
Accuracy	±5% or ±±5°C of reading
Horizontal Angle	0°~360°
Pitching Angle	-60°~+20°
Preset position	128
Accuracy of the positions	±0.5°
Operating temperature	-20°C ~+50°C
Storage temperature	-40°C +60°C
Encapsulation	IP66
Shock	GB/T 4857.5
Vibration	GJB 150.16-86
Ethernet	TCP/IP