

RDWG-L33 SF6 Optical Gas Imaging Camera

RDWG-L33 SF6 Optical Gas Imaging Camera is composed of infrared optical system, long-wave infrared spectrum detector based on quantum-well infrared photodetect (QWIP), electronic processing system and image processing software, which converts the infrared radiation of the measurement target. It is a kind of advanced measuring instrument for rapid, intuitive, non-contact detection and thermal fault detection of Gas Insulated Substation(GIS) equipment in the field of unorganized emissions of SF6 for visualizing thermal images and detecting small amounts of leakage of SF6 gas.



Product features

1. High sensitivity quantum well infrared detector (QWIP) ensures high precision, high stability and high reliability of various environmental tests
2. Passive infrared imaging technology is adopted. The leakage point of electrical equipment can be found remotely and accurately without power failure.
3. Equipped with 5 megapixel visible camera, high-power dual flash, coexistence of infrared and visible image data, and efficient identification of historical fault location
4. 5.7"color digital LCD screen (available in sunlight) with built-in HD OLED Image Finder. The angle of LCD screen and Image Finder can be rotated to facilitate various on-site observation
5. The utility model has the advantages of small volume, light weight and simple operation, and can be used by a single person on site
6. 2000 groups of data are stored, and the functions of historical data reading, consulting, saving, report and printing can be realized through the data software



Product specifications and technical parameters

Detector	Detector type	QWIP
	Spectral range	10.1-11 μm
	Image resolution	640*512
	Detector Pitch	15μm
	NETD	<0.015°C@25°C
	Frame rate	50/60Hz
Infrared len	Field of view/minimum focus distance	15.7 °*12.6°/1.5m
	Focusing mechanism	Manual
	Spatial resolution	0.43 mrad
Vision	Resolution	5 million pixels, CMOS
	Focusing mechanism	automatic
	Fill light	LED fill lamp
Laser	Laser pointer	Red, laser class: 2
Image	Viewfinder	0.6"color, 800*600
	LCD	5.7" sunlight visible display, 640*480
Setup	image enhancement	DDE
	Digital zoom	x1/x2/x4
	Color palettes	4 color palettes, image adjustment(auto/manual)
	Gas Modes	High Sensitivity Mode(1-3)
	Electricity detection	Real time power display
	OSD	Date / time, language, temperature unit
Temperature measuring function	Temp range	-20°C ~ +350°C
	Accuracy	±2°C or ±2%
	Measurement functions	Multiple measurement spots & Regions of Interest , hot/cold spot detection, isotherms, profiles, differences
	Emissivity	1 ~100
	Ambient temperature	Self-adaption
Interface Parameter	Power interface	DC +12V±10% 3A
	data interface	USB 2.0
	Storage	MMC card, <32GB
	Video output interface	HDMI
	Position system	GPS
Power System	Battery type	44Wh Rechargeable Li-ion battery
	Battery working	> 2 hours
	Power supply	DC +12 V/ 3A

Environment	Operating temperature	-20°C~ +50°C
	Storing temperature	-40°C~ +80°C
	Protection class	IP54
	Humidity	Relative humidity 10 % to 95 %, non-condensed
Physical Characteristics	Weight	About 3kg
	Size	329.5 mm *177.3 mm *205.8mm