

Gas Infrared Camera TG series



ULIRvision Gas infrared cameras TG series are patented product, enable to scan and diagnose SF₆ leaks even small amount in the electrical substations and equipments. As SF₆ is a perfect dielectric to quench the arcs, it is widely used in gas-insulated substations, circuit breakers, and other switchgear nowadays, but SF₆ has a significant impact on global climate change. earlier methods of SF₆ detection requires the operator to get close to the equipments and contact with “sniffer” or probes, these methods can be unsafe, impractical for examining live high voltage equipments. But ULIRvision TG series are not, they can detect the SF₆ leak spots easily and quickly from ground level whether the leaks is nearby or meters away distance.

ULIRvision TG series are professional device to detect, pinpoint and document the SF₆ leakage location, which are ULIRvision patented product. they can locate the SF₆ leak spots accurately with vivid thermal video images from faraway distance to make operator inspecting electrical equipments without any danger, also preserve the environment for future generations. It is ideal device which used widely to diagnose SF₆ leaks in electrical substations and elctrical equipment.



Features

- High sensitivity: make detection process easier, faster, and more accurate.
- Auto operation: automatically adjust laser intensity, make measurement easily and accurately.
- Dual display design: viewfinder + LCD screen.
- Built-in 4.0 mega pixels digital camera: provide bright visual images.
- Safety inspection: predictive and preventive detect SF₆ leaks at safe distances requires no shutdown.
- Easy documentation: high resolution thermal video images and visible pictures can be saved in SD card, all images can be reviewed on the device directly or at PC.

Contact Us

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Technical Specifications:

Item	TG 80	TG 60
● Imaging and Optical Data		
- Detect Gas type	SF ₆	SF ₆
- Gas Sensitivity	1 micro liter/second	1.5 micro liter/second
- Measurement distance	0.5~30m	0.5~20m
- Image Frequency	50HZ	25HZ
- Field of view (FOV)	6° X 4.5°	6° X 4.5°
- Accuracy	±1mm	±2mm
- Power adjustment	Auto	Auto
- Temperature resolution	20mk	35mk
- Spatial resolution	0.45mrad	0.45mrad
- Visible camera	4.0 mega pixels	2.0 mega pixels
- Visible image	Yes	Yes
● Image storage		
- Storage media	2G SD card	2G SD card
- Image format	JPEG(visible or thermal)	JPEG(visible or thermal)
- Video format	H.264 thermal video	H.264 thermal video
● Image presentation		
- Image display	JVC high resolution viewfinder 3.5" color LCD	JVC high resolution viewfinder 3.5" color LCD
● Physical Data		
- Lifetime	>20,000 hours	>15,000 hours
- Weight	7.8Kg	7.6Kg
- Size	425 X 180 X 114mm	423 X 180 X 114 mm
● Power System		
- Battery	Rechargeable Li-ion battery	Rechargeable Li-ion battery
- Battery running time	Approx 2 hours	Approx 2 hours
- Power operation	110V~220V AC/50HZ	110V~220V AC/50HZ
● Environment Data		
- Humidity	5~99%RH (non condensing)	5~99%RH (non condensing)
- Operating temperature	-30°C~60°C	-30°C~60°C
- Storage Temperature	-40°C~80°C	-40°C~80°C
- Operating environment	Inside or outside	Inside or outside
● Camera includes		
- Standard	SF ₆ gas imaging camera, SD card, card reader, tripod, power cord, software, manual, warranty card, transport case	SF ₆ gas imaging camera, SD card, card reader, tripod, power cord, software, manual, warranty card, transport case
- Option	Rechargeable Li-ion battery	Rechargeable Li-ion battery

