

ACOUSTIC THERMAL IMAGER

GSW300 GSW600



Optional lens : 48° /12° /6° etc.



Infrared detection, partial discharge detection, etc.



Infrared detection with $\pm 2^{\circ}\text{C}$ as accuracy



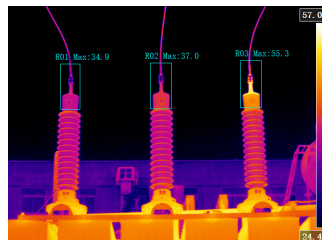
Microphone with 136 digital silicon MIC array



High detection frequency band: 2khz-100khz



Long detection distance: 0.3~130 meters



SPECIFICATIONS

Model	GSW300	GSW600
Detector type	Uncooled FPA, VOX material	
IR Resolution	384x288	640x512
Thermal Sensitivity/NETD	< 40mK (@30°C)	
Spectral Range	8~14μm	
Standard lens	24°	
Optional lens	48°, 12°, 6°, etc	
Spatial resolution (IFOV)	1.30mrad (24° lens); 2.26mrad (48° lens); 0.68mrad (12° lens); 0.34mrad (6° lens)	0.66mrad (24° lens); 1.39mrad (48° lens); 0.33mrad (12° lens); 0.16mrad (6° lens)
Focus	Manual/Automatic/Electric	
Minimum focal distance	0.15m (24° lens); 0.15m (48° lens); 0.3m (12° lens); 1m (6° lens)	0.15m (24° lens); 0.15m (48° lens); 0.3m (12° lens); 2m (6° lens)
Display	5" Sunshine Visible Display Screen, 800x480	5.8" Sunshine Visible Display Screen, 1280x768
Touchscreen	Capacitive touch screen	
Lens rotation angle	≥135°	
Lens identification	Automatic identification	
Acoustic parameters		
Microphone	136 digital silicon MIC arrays	
Frequency bandwidth	2kHz ~ 100kHz	
Distance	0.3-130m (related to the size of the sound source signal)	
Pseudo-color audio and video mode	White and black, rainbow, iron red, fusion, rain, blue and red, etc.	
Sound intensity display	Highest point	
Acoustic detection mode	Gas leak detection mode, partial discharge detection mode	
Sound image frequency	25Hz	
Minimum leakage	0.5m, minimum detectable leak of 0.078ml/s at 0.6MPa 1m, minimum detectable leak of 0.122ml/s at 0.5MPa	
Sound intensity range	Lower limit: <-15 dB; Upper limit: >120 dB	
PRPD spectrum	Support	
MIC sampling rate	200kHz	
Gas leakage loss display	Support	
Gas leakage display	Support	
Gas leakage level display	Support	
Partial discharge detection	Support	
Partial discharge type identification	Tip discharge, suspension discharge, surface discharge, particle discharge	
Acoustic measurement function	Support multiple sound sources	
Temperature measurement		
Object temperature range	-20°C~+150°C (low temperature range)/0°C~+410°C (medium temperature range)	
Optional temperature range	+300°C~+650°C/+300°C~+2,000°C/other ranges (high temperature range)	
Temperature measurement accuracy	±2°C or ±2% of readings	

SPECIFICATIONS

Visible light	
Digital camera	Built-in 500W pixel digital camera with LED light
Range measurement laser	
Laser range	40m
Laser range accuracy	±1cm or 1‰ of the measured value, whichever is greater
Laser alignment	Position is automatically displayed on the infrared image
Image display	
Palette	10 color palettes
Picture in picture	Support, display infrared image area on visible light image
IMIX	Support
Image fusion	Support
Isothermal line	Support
Super resolution	Support, increase the pixel to 4 times of the original image pixel
GPS	Built-in GPS, automatically add location information to the image
Video and audio mode	
Video and audio mode	Sound and image mode, infrared thermal imaging mode, sound and heat mixed mode
Wireless transmission	
WIFI	Support, transmit infrared images to mobile phones/computers via WIFI
4G	Support, remote real-time transmission of images to mobile phones/computers via 4G
Bluetooth	Support Bluetooth headset recording and playback
USB transmission	
USB transmission	Transfer images from the SD card in the machine to the PC via USB
Measurement analysis	
Temperature measurement settings	Supports up to 10 points, 10 frames, and 5 lines at the same time, including Max/Min/average values
Full screen Max/Min temperature	Support, automatically capture the highest temperature/lowest temperature in the full screen
Temperature difference	Automatically calculate the temperature difference of each temperature measurement frame
Optics Transmission Correction	Manual/automatic, based on the signal from the internal sensor
Radiance correction	Automatic, based on input values of emissivity
Atmospheric transfer correction	Automatic, based on input values of distance, atmospheric temperature and relative humidity
User interface	
Text annotation	Select text annotations from a preset list, editable in the thermal imager
Voice annotation	Support voice annotations, stored with the image
Image storage	
Storage method	32G high-speed SD card
Infrared image format	.jpg (including full temperature data)/.png (including full temperature data)
Visible light image format	.jpg
Infrared video format	H.264 or full-radiometric infrared video
Video output	
Video output	HDMI
Video output interface	Micro HDMI interface

SPECIFICATIONS

Alarm	
Alarm mode	Automatically sound and light alarm for set temperature value/above/below
Power system	
Battery type	Removable rechargeable lithium battery
Power supply voltage	DC 12V
Battery working time	General use >3 hours at 25°C
Charging method	Dual charger
Physical parameters	
Weight	1.48kg (with battery + lens)
Dimensions	192x173x116mm
Environmental parameters	
Operating temperature	-20°C~55°C
Storage temperature	-40°C~70°C
Humidity (operating and storage)	≤95%, non-condensing
Protection level	IP54
Tripod installation	UNC1/4"-20