TC706

HIGHEST RESOLUTION AND ACCURACY
WITH LOW COST

SF_6 Gas Detection

TC706

TO DETECT GAS SF6

amperis

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The TC706 visualizes and pinpoints gas leaks of SF_6, without the need to de-energize high-voltage equipment or shut down the operation. The portable camera also greatly improves operator safety, by detecting emissions at a safe distance, and helps to protect the environment by tracing leaks of environmentally harmful gase.

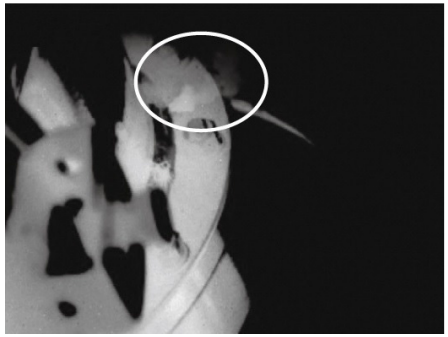
SF_6 is used in the electric power industry as an insulator and quenching medium for gas-insulates substatios and circuit breakers.

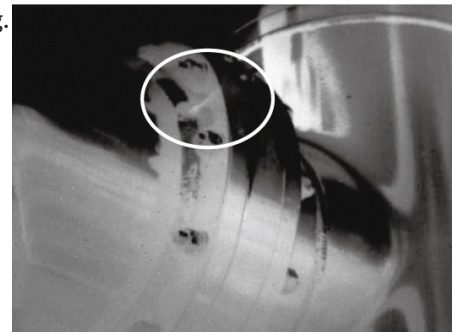
TC706 – Great choice for Gas Leaks Detection

Hand shank and view finder could rotate simultaneously, easy for observation

TC706 Unique Feature:

- Adapt passive thermal imaging technology, could accurately find the leakage point at long distance without power supply shutdown.
- Using Cooled QWIP detector, enjoy superior image quality and accurate tempe rature measurement.
- Voice and video recording function.
- HD OLED view finder, combined with 5” touch rotating screen, suitable for many on-site using.
- No specific background and auxiliary light needed, suitable for many on-site chec-king.
- Small size, light weight and easy operation, suitable for single person on-site using.





Examples of leak detection

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Technical parameters TC706			
Detector characteristics	Detector type		Cooled QWIP
	Array size/format		320×256
Image manage	Field of view/min focus distance		14,5°×10,8°/0,5m or 24°x18°/0,3m
	Spatial resolutions(IFOV)		0,79mrad or 1,13mrad
	NETD		≤0,025℃@30℃
	Frame rate		60Hz
	Focus		Auto / Manual / Motorize
	Zoom		1-4x electronic zoom
	Spectral range		9,8 – 11,2μm – peak 10,55μm
	CCD		1,3 million CMOS
Image display	View finder		HD 0,6” color OLED, with zoom
	LCD		HD 5” color digital touch screen, 800x600
Measurement	Temperature ranges		-40℃～+500℃
	Accuracy		±2℃ or ±2% of reading, whichever is greater
	Measurement correction		Auto/Manual
	Mode		Up to 10 movable spots. Up to 5 movable areas (maximum, minimum and average temperatures). Up to 2 movable lines. Line profile. Isotherm. Temperature difference. Alarm (voice, color)
	Image control	Color pallete	11 pallettes changeable (Iron, Rainbow, Grey and Grey inverted, etc)
		Image adjustment	Auto/Manual adjustment of contrast and brightness
	Setup		Date/time, temperature unit °C/°K/F, language
	Emissivity correction		Variable from 0.01 to 1.0
	Background temp adjustment		Auto, according to the background temp
	Atmospheric transmission correction		Automatic correction according to user input object distance, humidity and temperature
Image Save	Storage Card		8G SD card, storage > 6000
	Storage Mode		Manual/automatic single-frame image storage, continuous visible, infrared video recording
	IR image	Single frame	JPEG, 14 bit thermal image with measurement data
		Video	MPEG-4 or 14 bit thermal image with measurement data
	Visual image	Single frame	JPEG
		Video	MPEG-4
	Voice annotation		40s., saved together with the image
	Image improvement		Averaging (S2, S4, S8, S16), spatial filter
Laser pointer	Power supply		Second level, 1mW/635nm(red)

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Power supply	Battery type	Li-Ion, rechargeable
	Battery operating time	3 hours continuous operation
	Charging system	Intelligent charger or power supply adaptor online charge
Power system	Power saving	Yes
	External power	10 – 15 V DC
Environment	Working temp	-15 ℃ - +50 ℃
	Humidity	≤ 90% non-condensing
	Encapsulation	IP54
Physical characteristics	Weight	3 Kg
	Dimension	335x160x172mm
Interface	External DC Input	Yes
	Audio output	Yes
	Video output	HDMI
	USB 2.0	Image, measurement data and voice transfer to PC
	Bluetooth	Yes
	Wifi	Yes

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