

TI320+

SF₆ Gas Leak Detection Thermal Imaging Camera

TI320+ adopts cooled QWIP detector, it can accurately find the SF₆ leakage point. This portable thermal camera can detect the leakage from a safe distance, thus the safety of operators can be ensured. It can also track some gases harmful to the environment, which has environmental benefits.

Features

Cooled QWIP detector, sensitivity \leq 0.025°C

SF₆ gas detection sensitivity \leq 0.001ml/s

Passive infrared imaging, no specific background or auxiliary light source is required

It can be used for SF₆ gas imaging leak detection and thermal temperature measurement

Pictures and videos are stored in SD card directly

Built-in 5.0 MP digital camera

It is small in size and weighs only **2.8 kg** sturdy and durable, intelligent operation

Electricity

Chemical Industry

Environmental organization

Research Institute



Applications



Technical Specifications

Item	TI320+
Detector Data	
Type	Cooled QWIP
IR resolution	320X256
Pixel pitch	30μm
Spectral range	10.3~10.7μm
NETD/Sensitivity	25mK
Gas sensitivity	≤0.001ml/s
Lens	
FOV/Focal distance	10°×7.5°/55mm
Minimum Imaging distance	1m
IFOV	0.55mrad
Focus	Manual
Lens(optional)	24°×19.2°/23mm(optional)
Image Performance	
Display	5", 1280x720, color LCD
Built-in visible light camera	5 megapixel CMOS, autofocus, 1 LED fill light
Frequency	50Hz/60Hz
Digital zoom	1X~10X continuous
Color palettes	12 palettes (including iron, rainbow, white hot and black hot etc.)
Contrast/brightness	Auto/Manual
Measurement	
Temperature range	-40℃~+50℃; +0℃~+250℃; +200℃~+500℃
Spotmeter	Real-time 10 movable spots, 5 movable areas (max./min. temp capture, avg. temp measure), movable line temp measure, isothermal analysis, temp difference measure, temp alarm (sound, color)
Temperature accuracy	Temp range(0~100℃)±1℃ or >+100℃ accuracy ±2%
Measurement correction	Auto/manual
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials
Background temperature correction	Auto
Atmospheric transmissivity correction	Auto
Setting function	Date/time, temperature unit °C/°F/K, language
GPS	Support
Image Storage	

Storage card	128G
Storage mode	Store signal frame image or dynamic video auto/manual
IR image format	JPEG, 14-bit measurement data image included
Visual light image format	Single frame, JPEG
Video storage	HD video stored in SD card(MPEG4/H.264 format),recording time up to 1 hour for per video
Voice annotation	60s voice record, stored with per image
Periodic image storage	10s to 24h
Laser Point	
Grade/Type	Class 2
Laser power	1mW
Laser wavelength	635nm red
Interfaces	
Power	Yes
SD card slot	Yes
Video output	HDMI
Communication Interface	WIFI, Bluetooth, USB
Audio output	Yes
Tripod	1/4" _20
Power System	
Battery type	Rechargeable li-ion battery
Battery operation time	3h
DC supply	DC: 14V
Charging system	Smart charging or DC14V 3A power adapter charging
Power saving	Yes
Environment Parameters	
Operation temperature range	-15℃~+40℃
Storage temperature range	-30℃~+60℃
Humidity	≤95%(Non-condense)
EMC	EN61000-6-4&EN61000-6-2、FCC47CFR Part15 classA、EN61000-4-8, L5
Vibration	2G (IEC60068-2-6)
Shock	25G (IEC60068-2-29)
Encapsulation	IP54(IEC60529)
Physical Data	
Size(L×W×H)	262mm (L) ×174mm (W) ×154mm (H)
Weight	≤2.8kg(with standard lens and battery)
Gas Detection	Sulfur hexafluoride, ammonia, acetyl chloride, acetic acid, allyl bromide, allyl fluoride, allyl chloride, methyl bromide, chlorine dioxide, ethyl cyanoacrylate, ethylene, furan, hydrazine, methyl Silane, methyl ethyl ketone, methyl ketene, acrolein, propylene, tetrahydrofuran, trichloroethylene, uranyl fluoride, vinyl

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chloride, acrylonitrile, vinyl ether

Packing	
Standard	Thermal camera, 2 rechargeable lithium batteries, battery charger, adapter, car power converter, SD card, SD card reader, U disk, warranty card, certificate, headset, carrying case, video cable, manual
Quality assurance	
IS09001	Yes