G320

SF$_6$ Gas Leak Detection Thermal Imaging Camera

G320 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 $\leqslant$ 0.025℃
SF$_6$ gas detection sensitivity$\leqslant$0.001ml/s
Passive infrared imaging, no specific background or auxiliary light source is required
It can be used for SF$_6$ 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 **2.6kg**
sturdy and durable, intelligent operation

Applications

Electricity
Chemical Industry
Environmental organization
Research Institute

ULIRVISION

Technical Specifications

Item	G320
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 Data	
FOV/Focal distance	10°×7.5°/55mm
Minimum Imaging distance	1m
IFOV	0.55mrad
Focus	Manual
Image Performance	
Display	5", 1280x720, LCD
Built-in visible light camera	5 megapixel CMOS, autofocus, 1 LED fill light
Digital zoom	1X～10X continuous
Palette	12 palettes (including iron, rainbow, white hot and black hot etc.)
brightness	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 (according to the input background temp)
Atmospheric transmissivity correction	Auto (according to the input distance, relative humidity, ambient temp)
Setting function	Date/time, temperature unit ℃/℉/K, language
GPS	Support
Image Storage	
Memory card	128G
Storage method	Store signal frame image or dynamic video auto/manual
Single frame infrared image format	JPEG, 14-bit measurement data image included
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	≤90%(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)	260mm（L）×173mm（W）×153mm（H）
Weight	≤2.6kg(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 chloride, acrylonitrile, vinyl ether

Packing

Standard	Thermal camera, 2 rechargeable lithium batteries, battery charger, adapter, SD card, SD card reader, USB flash drive, warranty card, carrying case, HDMI cable, user manual