

G640

NH₃|SF₆ GAS OPTICAL THERMAL IMAGING CAMERA

G640 uses quantum well infrared detector, which can accurately find SF₆|NH₃ leakage point through thermal imaging. This portable thermal camera can detect leaks from a safe distance, therefore it can greatly ensure the safety of operators. In addition, it can also track some harmful gases to make contributions to environment.

Features

QWIP, sensitivity 15mK

SF₆|NH₃ gas detection sensitivity ≤ 0.001ml/s

Passive thermal imaging, specific background & auxiliary light source is not required

SF₆|NH₃ gas imaging leak detection and thermal temp measurement

Pictures and videos are stored in SD card directly

5 megapixel visible light

Small size, weighs only 2.8kg

Durable, intelligent operation

Applications

Electric industry

Chemical industry

Environmental protection agency

Institute



ULIRVISION

Technical Specifications

Item	G640
Detector Data	
Type	Quantum well infrared detector(QWIP)
IR resolution	640*512
Pixel pitch	15μm
Spectral range	10.3~10.7μm
NETD/Sensitivity	15mK
Gas sensitivity	≤0.001ml/s
Lens Data	
FOV / Focal Length	14°×11.2°/39mm
Minimum imaging distance	0.5m
Focus	Manual/Motor/Auto
Lens(optional)	24 ° x 19.2 °/23mm(Optional)
Image Performance	
LCD	HD 5.0", 1280x720, rotatable touch screen
Visual camera	5 megapixel CMOS, autofocus, 1 LED fill light
Amplification	1~10X Continuous digital zoom
Palette	12 palettes (including iron red, rainbow, black hot and white hot, etc.)
Contrast/Brightness	Auto/Manual
Measure	
Temperature range	-40°C ~ +50°C; +0°C ~ 250°C; +200°C ~ 500°C
Measurement accuracy	Temp range (0-100°C)±1°C or ± 2% of temperature range readings (> + 100 °C)
Measurement correction	Auto/Manual
Emissivity correction	Adjustable from 0.1 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)
Image Storage	
Memory card	128G
Storage method	Auto/manual single frame image or dynamic recording
Single frame infrared image format	JPEG, with 14-Bit measured data image
Video storage method	HD videos are stored in the memory card in MPEG4/H.264, each segment can be up to 1h
Voice annotation	40s voice record, stored with image
Timed storage	Every 10s~24h
Laser Indicator	
Laser classification	Class 2
Laser wavelength	635nm red
Interface	
Power interface	Yes

SD card slot	Yes
Video output	HDMI
Communication Interface	WIFI, Bluetooth, USB
Audio output	Yes
Tripod	1/4" _20
Power System	
Battery type	Lithium battery, rechargeable
Operating time	3h continuous (room temperature)
External power	DC: 14V
Power saving	Yes
Environment Parameters	
Operating temperature range	-20°C~+40°C
Storage temperature range	-30°C~+60°C
Humidity	≤90% (non-condensing)
Vibration	2g meets the requirements of Q/GDW11304.1-2015 5.5.3
Shock	25g meets the requirements of Q/GDW11304.1-2015 5.5.4
Protection level	IP54 (IEC60529)
Physical data	
Size	240mm (L)×172mm (W)×155mm (H)
Weight	≤2.8kg (with standard lens& battery)
Gas Detection	

Sulfur hexafluoride, ammonia, acetic acid, hydrazine, acetyl chloride, methylsilane, allyl bromide, butanone, propenyl chloride, butenone, fluorinated allyl acrolein, anhydrous ammonia, propene, methyl bromide

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