

# KCH-320 Gas Thermal Imaging Camera



#### **OVERVIEW**

KCH-320: is with cooled detector (QWIP, NETD<25mK) to detect gas leaks and pinpoint the gas leaks location accurately, also offers temperature measurement. It is a multifunctional device for gas leakage detection and thermograph applications. KCH-320: provide safe & efficient inspection at long distance without shutting systems down, scans large areas & numerous objects rapidly, sees into areas that are difficult to reach with contact measurement tools and enhances predictive maintenance at the same time. It is an ideal device for chemical/petrochemical application such as offshore platforms, oil refineries and natural gas processing plants.



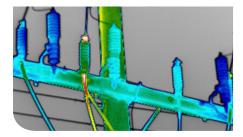
- » refinery
- » natural gas processing facility
- » offshore iol/gas exploration platform
- » chemical industry
- » research Institute, etc..

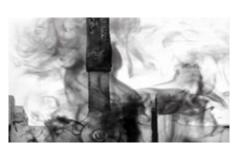
#### **FEATURES:**

- » Cooled QWIP detector, sensitivity <0.025°C, pinpoint gas leaks location quickly,
- » Gas detection accuracy ≤ 0.001ml/s
- » Dual-application: Gas leakage detection and thermograph application,
- » Temperature range: -20~500°C,
- » Inspection without interrupted process,
- » Interchangeable lenses available,
- » Built-in 5.0 MP digital camera,
- » Folding and 270° rotatable display



### CH4, benzene

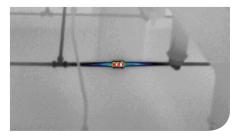












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## **SPECIFICATIONS**

Detector Data	
Туре	Cooled QWIP
IR resolution	320×256
Pixel pitch	30μm
Spectral range	3.1~3.5µm
NETD/Sensitivity	25mK
SF6 gas sensitivity	≤0.001ml/s
Lens	
FOV/Focal distance	10°×7.5°/55mm
Minimum imaging distance	2m
IFOV	0.55mrad
Minimum imaging distance	Auto/Motor/Manual
Image Performance	
Display	5",color LCD, 800×480 pixels
Frequency	50Hz/60Hz
Digital zoom	1X~8X continuous
Color palettes	12 palettes(including iron, rainbow, white hot and black hot etc.)
Contrast/brightness	Auto/Manual
Measurement	
Temperature range	-20°C~+350°C
Temperature accuracy	±2°C/±2°C%(reading)
Spotmeter	10 adjustable spots
Line profile	Vertical/Horizontal
Area	5 adjustable boxes with max./min./ avg temperature value
Isotherms analysis	Capture high/low temperature/ interval
Alarm	Voice, color
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
Languages	10 languages (English, French, Italian, German, Spanish, Portuguese, Russian, Korean, Japanese, Simplified Chinese & Traditional Chinese)
Image storage	
Storage card	8G SD card(can be extended to 32G)
Video output	Card reader, USB, WiFi
Storage mode	Store signal frame image or dynamic video auto/manual
IR image format	JPEG, 14-bit measurement data image included

Video storage	High definition video stored in SD card(MPEG4/H.264 format),recording time up to 1 hour for per video
Voice annotation	40s voice record, stored with per image
Periodic image storage	10s to 24h
Laser point	
Grade/Type	Class 2,1mW/635nmRed
Interfaces	
Power	Yes
SD card slot	Yes
Video output	CVBS
Audio output	Yes
Tripod	1/4" -20
Power system	
Battery type	Rechargeable li-ion battery
Battery operation time	2h
DC supply	DC: 12V
Charging system	In camera, AC adapter, car charger
Power saving	Yes
Environment Parameters	
Operation temperature range	-15°C~+40°C
Storage temperature range	-20°C~+50°C
Humidity	≤95% (Non-condense)
EMC	EN61000-6-4 & EN61000-6-2 FCC47CFR Part15 class A EN-61000-4-8, L5
Vibration	2G (IEC60068-2-6)
Shock	25G (IEC60068-2-29)
Encapsulation	IP54 (IEC60529)
Physical Data	
Size(L×W×H)	308mm×142mm×166mm
Weight	≤2.5kg (with standard lens)
Main Gas Detection	CH <sub>4</sub> , benzene
Packing	
Standard	Thermal imaging camera with standard 10°standard len, USB WiFi module, 2 Li-ion batteries, battery charger, adapter, car, charger, SD card, SD card, reader, software CD, warranty card, certificate, calibration book
Optional accessories	Laptop, SLR camera

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