

AHGD

Gas Detection Infrared Camera

The AHGD gas detection thermal imaging camera uses a cooled infrared detector to provide visual observation of trace gas leaks at long distances, enabling rapid localization of the leak source. It offers visual monitoring for over 20 types of gases, including methane and ethane, and effectively monitors VOCs (Volatile Organic Compounds) levels. The device is primarily used in industries such as oil, chemical; natural gas, and power, to prevent accidents related to hazardous gas emissions and ensure safe production.



Specifications		
Visible light		
Detector Parameters	Detector	CMOS
	Resolution	2594 x 1944
	Pixel Pitch	2.0µm
	Frame Rate	30Hz
Optical Parameters	Aperture (F)	F2.5
	Focal Length	3.5 - 9mm
	FOV	D. Diagonal 93°(W)-39.4°(T) H. Horizontal 83°(W)-32°(T) V. Vertical 51°(W)-20°(T)
	Focusing Method	Electric/Automatic
Infrared		
Detector Parameters	Photosensitive Material	InSb
	Resolution	640 x 512
	Pixel Pitch	15µm
	Response Wavelength	3.2µm - 3.4µm
Optical Parameters	NETD	<35mk
	Default Frame Rate	25/30Hz
	Aperture (F)	F1.2
	Focal Length	25mm
Optical Parameters	FOV	22.3° × 17.1°
	Focusing Method	Electric/Automatic
Display		
Display Screen	Viewfinder (Eyepiece)	3.5-inch LCD, 1080P, Rotatable
	Display Interface	0.39-inch OLED, 1024 × 768, Rotatable
Temp Measurement		
TEMP Measurement Range		-20°C - 350°C
TEMP Measurement Mode		Supports point and area temperature measurement
TEMP Measurement Accuracy		Automatic tracking of the highest temperature point, Configurable maximum and minimum temperatures, Isotherms, Temperature difference, And Temperature alarm
		±1°C (0~100°C) ±2% Reading Range (-20~0°C or >100°C)
System		
Button	Power Switch	Device Power Switch Control
Communication	USB	TYPE-C
Other		
Supplementary Light		White Light Supplementary Light
Laser Pointer		Class II, 1mW/635nm Red
GPS		Supported
Internal Storage		Built-in 32GB
Battery		Rechargeable Lithium Battery (TYPE-C)
Operating Time		>2h
Mounting Method		Supports Tripod Mounting
Dimensions		
Whole Unit	Dimensions	303 x 167 x 149mm
Weight		
Whole Unit	Weight	≤1.6kg
Gas Leak Detection		
Detection Type	Detectable Gas Types	Methane, Ethane, Propane, Butane, Pentane, Hexane, Heptane, Octane, Ethylene Oxide, Propylene Oxide, Ethylene, Propylene, 1-Butene, Methanol, Ethanol, Butanol, Ethylene Glycol, Isopropanol, Ethyl Ether, Propionaldehyde, Benzene, Toluene, Ethylbenzene, Aniline, etc.

