Gas Detection Infrared Camera

Introduce

Gas Detection Infrared Camera applied in methane and other volatile organic compounds (VOC) leak detection, using high sensitivity 320 x 256 medium wave refrigeration infrared detector and realizing the multiple sensor fusion, is suitable for leak detection in the field of industrial gases, such as oil refineries, offshore oil and gas platform, gas storage and transportation location, chemistry/chemical, biological gas plant and power stations, etc.

Specifications

IR detector and lens	
IR resolution	320×256
Detector pitch	30μm
Thermal sensitivity	≤25mK@25°C
Temperature accuracy	±2°C or ±2%
Temperature range	-40°C to 350°C
Lens	Standard: 24° × 18° / Optional: 14.5°× 10.8°
Focus	Auto & Manual

Imaging	
LCD	4"Touch LCD，800×600 Pixels
Viewfinder	0.6"OLED，800×600 Pixels
Visual camera	5MP CMOS，Auto focus，One bright LED lamp
Color palettes	10
Zoom	1–8× continuous, Digital zoom
Image adjustment	Continuous/Manual
Gas enhancement	High sensitivity mode
Detects following gases	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene

Measurement analysis	
Spotmeter	10
Area	5 boxes with max./min./average
Profile	1 live line (horizontal or vertical)
Isotherm	Yes
Difference temperature	Delta temperature between measurement functions or reference temperature
Alarm	Audio or Color
Emissivity correction	Variable from 0.01 to 1.0
Measurement corrections	Reflected temperature, distance, atmospheric transmission, humidity, external optics

Storage of images	
IR image format	Standard JPEG, with 14 bits measurement raw data
IR video format	File with 14 bits measurement data，MEPG4
Visual image format	Standard JPEG
Visual video format	MEPG4
Voice annotation	Up to 60 seconds voice
Periodic image storage	Every 10 seconds up to 24 hours
Storage media	16G Removable TF memory card, up to 64G

Interface	
Video out	HDMI
Digital interface	USB2.0 and WLAN，Data transfer to PC

Others	
Setup	Day/Time/Language
Laser pointer	Class 2, Semiconductor diode laser, 1 mW, 635nm (red)

Power	
Battery	7.2V Rechargeable Li-ion battery，operating time≥3 hours
Start-up time	Typically 5 min. @ 25°C

Environmental data	
Operating temperature range	-20°C ~ +50°C
Storage temperature range	-30°C ~ +60°C
Humidity(operating&storage)	≤95%
Encapsulation	IP 54 (IEC 60529)

Physical data	
Camera weight	≤2.8kg
Camera size (L × W × H)	305×172×145mm
Tripod mounting	UNC ¼"-20