

G330S

VOCs Gas Optical Thermal Imaging Camera

VOCs gas optical thermal imaging camera is a non-contact device, it can quickly scan VOCs natural gas pipelines and equipment, real-time and intuitively locate the VOCs gas leak points and accurately measure the temperature by thermal images, so as to achieve VOCs natural gas long-distance rapid detection of pipelines and equipment.

Features

High sensitivity cooled detector, sensitivity $\leq 0.01^{\circ}\text{C}$

VOCs gas detection sensitivity $\leq 0.4\text{g/hr}$ (CH₄)

High sensitivity mode Small gas leakage can be detected

It can be used for VOCs gas imaging leak detection and thermal temperature measurement

Pictures and videos are stored in SD card directly

It is small in size and weighs only 2.4 kg

Intelligent operation

Explosion-proof: Ex ic nC op is II C T6 Gc

Passed the EU CE certification



Applications

Ecological Environment Law Enforcement Team, City (County) Motor Vehicle Exhaust Pollution Monitoring Center, Safety Supervision Bureau, Fire Bureau, Maritime Safety Administration, LDAR Testing Service Company

Offshore oil platform, oil refinery, refineries, gas station, chemical treatment plant, hazardous chemicals parking lot and hazardous chemicals storage tank area

Natural gas enterprises, natural gas stations, natural gas well sites, natural gas storage facilities, natural gas transmission pipelines and natural gas power plants

Biogas power plants, pharmaceutical enterprises, pesticide plants, coal chemical plants



Technical Specifications

| | |
|---------------------------------------|--|
| Item | G330S |
| Detector Data | |
| Type | High sensitivity cooled detector |
| IR resolution | 320×256 |
| Pixel pitch | 30μm |
| Spectral range | 3.2~3.5μm |
| NETD/Sensitivity | 10mK |
| Gas sensitivity | ≤0.4g/hr (CH4) |
| Lens Data | |
| FOV / Focal Length | 14°×11.2° / 39mm |
| Minimum imaging distance | 0.5m |
| IFOV | 0.77mrad |
| Focus | Manual / Motor / Auto |
| Lens(optional) | 24 ° x 19.2 ° / 23mm(Optional) |
| Image Performance | |
| Display | HD 5.0", 1280x720, AMOLED |
| Visual camera | 5 megapixel CMOS, autofocus, 1 LED fill light |
| Frequency | 50Hz |
| Amplification | 1~10X Digital zoom |
| Palette | 12 palettes (including iron red, rainbow, black hot and white hot, etc.) |
| Brightness | Manual |
| Measure | |
| Temperature range | -40°C~+350°C |
| Measurement mode | Real-time 10 movable spots, 10 movable areas(max./min. temp capture, avg. temp measure),10 movable line temp measure, isothermal analysis, temp difference measure, temp alarm (sound, color)(Can set 10 spots, 10areas, 10 circles, 10line) |
| Measurement accuracy | 0~100°C accuracy ±1°C , -20°C~0°C or > +100°C 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) |
| Function settings | Date / time, temp unit °C/°F/K, language |
| GPS | Yes |
| 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 | 60s voice record, stored with image |
| Timed storage | Every 10s~24h |
| Laser Indicator | |
| Laser classification | Class 2 |
| Laser power | 1mW |
| 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: 12V |
| Charging type | Smart charging stand or DC12V 3A power adapter |
| Power saving | Yes |
| Environment Parameters | |
| Operating temperature range | -20°C~+50°C |
| Storage temperature range | -30°C~+60°C |
| Humidity | ≤90% (non-condensing) |
| EMC | EN61000-6-4&EN61000-6-2、FCC47CFR Part15 classA、EN61000-4-8, L5 |
| Vibration | 2G (IEC60068-2-6) |
| Shock | 25G (IEC60068-2-29) |
| Protection level | IP65 (IEC60529) |
| Explosion-proof | Ex ic nC op is IIC T6 Gc |
| Physical data | |
| Size | 240mm (L) ×160mm (W) ×156mm (H) |
| Weight | ≤2.4kg(with standard lens& battery) |
| Gas Detection | |
| Methane, ethane, butane, propane, octane, pentane, heptane, hexane, ethylene, propylene, benzene, toluene, ethylbenzene, xylene, ethanol, methanol, isoprene, MEK, MIBK, 1-pentene | |
| 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 |

ULIRVISION

| | |
|-------------------|-----|
| Quality assurance | |
| CE | Yes |
