AMPERIS TC721

Gas Leak Detection Thermal Imager

AMPERIS TC721

Gas Leak Detection Thermal Imager

Cooled detector, 320 × 256, precise imaging, With passive infrared imaging technology, electrical equipment can be detected remotely without power failure.

Ordinary and multi-level high-sensitivity detection modes can detect small gas leakages and infrared temperature measurements.

Ex IC nC op is IIC T4 Gc explosion-proof certification and can be used in all kinds of explosive gas occasions.

Dozens of volatile organic compounds (VOCs) including methane, ethane, propane,

amperis

www.amperis.com

Detector performance

Detector type	Cooled quantum well detector
Pixel	320×256

Image performance

Angle of view / minimum focal length	14.5°×10.8°/ 0.5m
Spatial resolution	0.79mrad
Thermal sensitivity	≤0.015°C@30°C
Gas detection sensitivity	0.4 gr/hr for CH4 at 2 m distance
Frame rate	60Hz
Focus	Auto/electric focusing/manual
Wavelength range	3.2～3.5um
Built-in visible light camera	5MP CMOS with LED

Image display

Viewfinder	High Definition 0.6 Color OLED with Amplification
LCD screen	High Resolution 5 Color Digital Touch Screen LCD

Measure

Temperature measurement range	-40°C～+500°C
Precision	± 2°C or ± 2% (reading range), whichever is higher
Temperature measurement correction	Auto/Manual
Background temperature correction	Automatic, based on the background temperature entered
Atmospheric transmittance correction	Automatic, based on input of target distance, relative humidity, ambient temperature,

Interface

Video output	Support
WIFI	Support
Bluetooth	Support

Image storage

Memory card	32G SD card, expandable
Storage mode	Manual/automatic single-frame image storage, continuous visible light and infrared video recording
Infrared image format	JPEG format with 14-bit measurement data image MPEG-4
Visible image format	JPEG, MPEG-4
Voice annotation	60-second voice recording, stored with images (built-in microphone)
Text annotation	Support

Auxiliary function

Laser designator	Secondary, 1mW/635nm red
GPS	Support
Fill light	Support
Buzzer	Support

Power supply system

Power-on time	< 7 minutes
Battery type	Lithium battery, rechargeable
Battery operating time	4 hours of continuous operation
Charging type	Smart charger or power adapter (optional) Local charging

Environmental parameters

Operating temperature	-20°C～+50°C
Humidity	≤ 90% (non-condensing)
Degree of protection	IP54
Explosion-proof grade	*Ex ic nC op is IIC T4 Gc

* Ex IC nC op : explosion-proof certification whose version is IIC T4 Gc
  NETD is equivalent to the values: ≤0.015°C@30°C
  (VOC) volatile organic compounds

amperis