



Methane and VOCs Gas Leakage Detection Camera TH1000 PS



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TH1000 PS

Methane and VOCs
Gas Leakage Detection camera



The harm to life and the environment caused by the leakage of volatile organic compounds and flammable toxic gases has become a topic that cannot be ignored around the world. According to user feedback, user needs, and industry development, **Thermocom** launched a new generation of volatile organic compound gas leak detector - **TH1000 PS** by upgrading software and hardware configuration, providing a new solution that is faster, more flexible and more efficient.

NEW

New generation of multiple highly sensitive imaging modes, provide rapid detection in different scenario



Ai

Automatic identify gas leak function, further improve detection efficiency



Real-time online playback of image recordings to avoid data loss



OLED

Large 5.5-inch OLED touch screen and shortcut buttons, supporting a number of quick operations



Newly upgraded Bluetooth 5.1, wifi, 4G, USB interface to meet a variety of data transmission needs



Laser point position display on IR image, with laser ranging function, useful in multiple scenes

512 GB

512GB large capacity storage, optional extend to 1TB, no more insufficient memory worry



ATEX

Intrinsically safe explosion-proof Ex ic IIC T6 Gc to ensure safety of operators

TH1000 PS SPECIFICATIONS

PERFORMANCE

Field of view	11° x 9°/24° x 18°/6°x4.5°
Thermal sensitivity	0.015°C at 30°C
Spatial resolution (IFOV)	0.65mrad
Focus	Auto and Manual
Electronic zoom function	1X~16X
Image frequency	50Hz/60Hz
Detector type	Cooled detector 320x240 pixels
Spectral range	3.2~3.5 μm
Startup time	< 7 minutes

IMAGE PRESENTATION

CCD camera performance	Build-in 16 million pixels digital camera
External display	5.5 inch OLED with screen, 1920*1080pixels
View finder	Build-in OLED with high resolution (1024x768 pixels)
Palette	12 palettes

TEMPERATURE MEASUREMENT

Temperature range	-20°C ~+ 350°C
Accuracy	±1°C (from 0°C ~ 100°C), ±2°C or ±2% (above 100°C)
Analysis	Auto tracking Max / with temperature data, 10 analysis area(Shape optional)
Emissivity correction	Variable from 0.01 to 1.0
Measurement correction	Emissivity, Ambient temperature, Humidity, Distance
Setting	Date, Time, Measurement unit °C/F

STORAGE

Video type	IRV: Including 16 bits full radiometric infrared temp. data MP4: IR video without temperature data, with audio
Audio input and output	Support recording voice, text annotation, audio playback

LASER RANGING INDICATOR

Laser type	Class 2, 1mw/635nm red
Laser ranging	Display laser point in IR image and provide distance value

BATTERY SYSTEM

Type	Li-ion, rechargeable, field replaceable
Operating time	≥4 hours continuous operation in room temperature
Charging system	2-bay intelligent battery charger with screen, External 2V DC power cable

PHYSICAL CHARACTERISTICS

Weight (Include battery)	≤2.85kg
Size (L×W×H)	307.5x161.7x192mm
Video output	HDMI
Interface	USB 3.0, WIFI, Bluetooth 5.1, 4G module

ENVIRONMENTAL SPECIFICATION

Operating temperature range	-10°C ~ 40°C
Storage temperature range	-40°C ~ 70°C
Humidity	Operating and storage 10% to 95%, non-condensing
Encapsulation	IP54, IEC 529, metal housing encapsulate

Explosion-proof type Ex ic IIC T4 Gc

DETECT GASES

Type	Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene, Butane, Ethane, Methane, Propane, Ethylene, Propylene.
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