PERGAM GROUP

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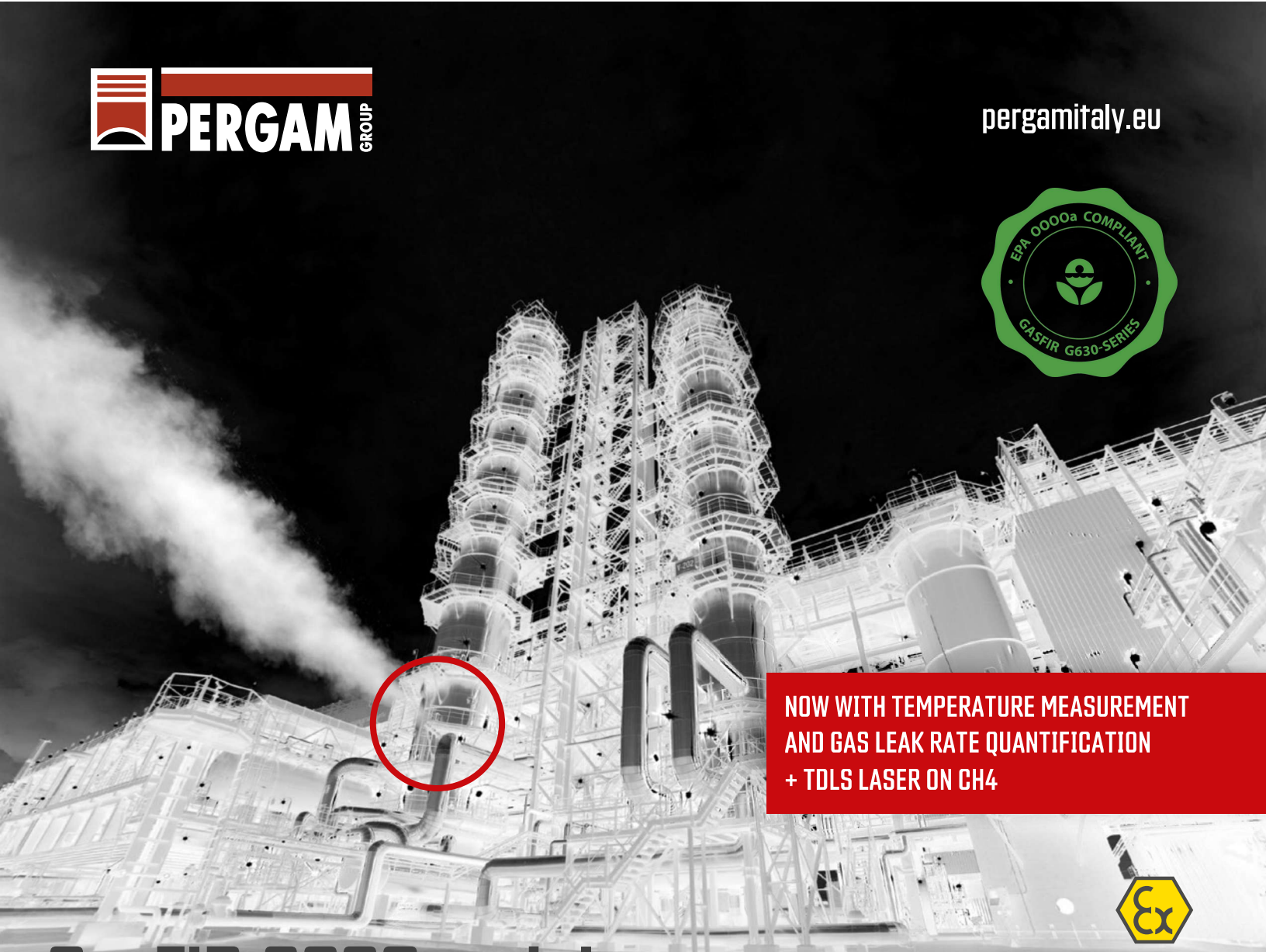

NOW WITH TEMPERATURE MEASUREMENT AND GAS LEAK RATE QUANTIFICATION + TDLS LASER ON CH4

GasFIR 630Q with laser

Gas leak detection & quantification



Portable OGI camera with built-in gas leak quantification. Detect, measure, and quantify — all in one device. The GasFIR G630Q measures leak type and severity directly on the camera screen. No tablet, phone, or secondary instrument required. The built-in TDLS laser methane module detects CH_4 and gas mixtures containing methane at distances up to 60 m with 0.1 s response time. Measurement range: 0–10% vol (0–100,000 ppm·m) with 10% accuracy. Bluetooth connectivity enables data exchange with external devices for quantitative monitoring. An AI recognition algorithm automatically identifies and colour-marks gas leaks in the infrared image — reducing operator interpretation time.

Advantages:

- real-time visualization of gas leaks
- high-precision non-contact temperature measurement from –40°C to 350°C
- built-in operating system with user-friendly interface
- multiple data transfer interfaces: USB, WLAN, HDMI
- high-resolution rotary LCD display
- viewfinder with adjustable tilt angle
- robust construction and light weight
- ergonomic design
- quantification of gas leaks

DETECTABLE GASES (30+)

Methane	Ethane	Propane	Butane	Pentane	Hexane	Heptane
Octane	Ethylene	Propylene	Butene	Pentene	Butadiene	
Isobutylene	Isoprene	Benzene	Toluene	Xylene	Styrene	
Ethylbenzene	Methanol	Propanol	Isopropyl alcohol			
Ethylene oxide	Propylene oxide	Acetic acid	Butanone	NGL		

Technical specifications Pergam GasFIR G-Series

Visualization parameters	
Field of View (FOV) / Minimum Focal Length	24°×19°; 14,5°× 11,6° (Optional)); 7°×6° (Optional)
Aperture Number (F)	1.2
Temperature Sensitivity/NETD	≤15mK@25°C (77°F)
Focus	Auto/Motorized/Manual focus ring
Electronic Zoom	1 to 10 times continuous electronic zoom
Digital image correction	Noise Reduction Filter, High Sensitivity Mode
Detector	
Detector type (FPA) / Spectrum	Cooled microbolometer 3.2–3.4 μm
Resolution/ Frame Rate	320 x 256 pixels/ 30 Hz
Detector cooling type	Stirling Microcooler
Maximum leak detection distance	Up to 180 meters (590 ft)
Operating Functions	Automatic mode, advanced mode
Detectable gases	Methane, propane, butane, pentane, ethylene, hexane, propanol, butadiene, butene, butene, propylene, pentene, styrene, toluene, xylene, dimethylbenzene, isobutylene, isoprene, benzene, ethylbenzene, hexane, ethylene oxide, methanol, propylene oxide, propylene, ethane, octane, heptane, isopropyl alcohol, acetic acid, butanone, NGL.
Measurement and Analysis	
Measurements / Emissivity	Up to 10 points, 10 areas, 10 adjustable lines points, 10 areas, 10 adjustable lines, isotherm, audible/color temperature alarms / 0,01–1
Built-in laser methane detector	
Detection method	Remote laser spectroscopy
Gas detection	Methane and gas mixtures containing methane
Sensor type	Infrared laser
Measuring range/measuring accuracy	0-10% vol (0 to 100.000 ppm*m) / 10%
Detection distance	Up to 60 meters (196 ft)
Response time	0,1 s.
Display Mode	On the thermal imager screen
Images	
Display	5.5-inch high-brightness LCD touch screen, sunlight visible, resolution 1080×1920, can automatically adjust brightness and automatically switch the screen on and off
Viewfinder	0.49-inch OLED, resolution 1920×1080
Image Mode	Histogram, linear stretch, gas vision enhancement mode (GVE™) dual-band fusion mode (DB- Fusion™) picture-in-picture mode, visible light mode, color illumination of gas leaks in IR mode (Artificial Intelligence Algorithm with automatic marking of gas leaks).
Color Palette	10 presets including white hot, black hot, iron red, rainbow, etc. +1 customization
Temperature range	–40°C~+350°C (-40°F to 662°F)
Accuracy	±2°C or ±2% (Take the larger absolute value)
Controls	Touch screen display and rotary knob with adjustable buttons
Image and video storage	
Image Storage Type	To TF card
Capacity	128 Gb
Storage mode	Recording video file with attached snapshot of the first frame + JPG frame of visible spectrum
File Format	JPEG 14 bit
Digital video	H.264
Timely photography	3 seconds ~24 hours
Image annotation	Voice: up to 60 seconds, stored with image Text: Choose between predefined templates
Gallery	Support viewing thumbnails/full images, edit/delete files, edit/delete/add text/voice comments in both thumbnail and full image modes. In full image mode, you can view text annotations, play voice annotations, perform temperature measurement analysis, and switch between before and after photos. Supports fingerprint login user folder association. Login users can only play back and view files shot by this user.
Visible light camera	
Built-in digital camera	8 Megapixel, 2 LED backlight lamps
Data and information interface	
Data exchange protocols	USB, WLAN, 4G, HDMI Bluetooth - data exchange with external devices for quantitative monitoring (leakage sizing) Wi-Fi for online image transfer to external monitors via a free app
GPS	Built-in
Laser rangefinder	Optional
Power Systems	
Battery Type	Rechargeable Li-Ion with no «memory effect»
Battery voltage	12 V
Battery capacity	9.9 Ah
Battery working time	≥3h
External power supply	AC power supply, Power adapter (Type-C)
Environmental adaptability	
Operating temperature	–20°C+50°C (-4°F to 122°F)
Storage temperature	–30°C+60°C (-22°F to 140°F)
Working humidity	≤95%
Protection level	IP66, shock resistance 10g (IEC 60068-2-6), compatibility IEC 61000
Explosion-proof signs	II 3G Ex ic nC op is IIC T6 Gc
Appearance and configuration	
Weight	≤2.9kg (6.3 lb.)
Camera dimensions with lens (L × W × H)	290×175×185 мм
Tripod installation	Standard, 1/4-20 UNC
Standard configuration	Shockproof case; Thermal imager with lens; Rechargeable battery, 2 pcs.; Lens cover; Battery charger; Shoulder and hand strap; USB cable, HDMI cable; User manual; Warranty certificate; Calibration certificate/verification certificate.