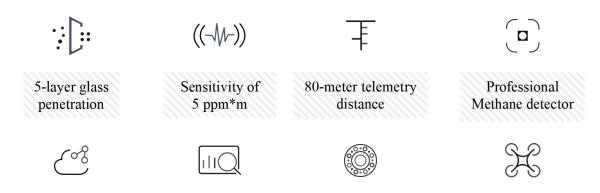
# Intelligent Laser Methane Telemetry System-FORNAX LM mini5



LM mini5 is a small laser methane telemetry system equipped with a highsensitivity laser methane detection module. Controlled by the drone remote control APP, it displays methane-related data in real time and records the over standard alarm message. The laser detection module can accurately detect methane leaks within 80 meters at high altitude, and the innovative glass penetration technology can achieve a maximum penetration of 5 layers of glass. Combined with small drones, it can conduct outdoor inspections for indoor scenes. It is widely used in indoor scenarios such as unsuccessful visits to gas customers, chemical enterprise indoor inspections, and can also be used to detect natural gas leaks in areas that are difficult for personnel to reach, such as top pipelines of urban buildings, outdoor pipelines, crossover pipelines, and storage tanks. It is characterized by low cost, easy portability, and high maneuverability. It is equipped with a cloud platform as standard configuration, which can return scene images and detection data. If a leak is found by intelligent data analysis, it will give alarms immediately, record

the inspection track and alarm events, and automatically generate an inspection report.



Intelligent analysis of cloud data

Integrating indoor/ outdoor flight APPs

Lens follow-up

Compatible with multiple flight platforms

# **Product Parameters**

#### O Device host

Name	Intelligent laser methane telemetry system
Model	LM mini5
Electrical interface	Type-C port
Dimensions	67*79*86mm
Weight	174g±5g
Material	Metal
Rated power	5W
Rated power	17V
Power supply mode	power supply by drone
Control distance	consistent with drone link
Control method	drone remote control
Remote Monitoring	Support
Presentation format	Numerical values, two-dimensional plane, three- dimensional bar chart
Report Export	Support
Inspection method	Manual inspection rounds, automatic inspection rounds

Data traceability	Support
Sensitivity	5ppm·m
Concentration range	0-100000ppm·m
Basic error	(0-1000) ±50 ppm·m (1000-10000) ±10% of true value ppm·m
Laser Safety	Detection laser CLASS I Indicator laser CLASS III
Telemetry distance	80 metres (depending on light intensity)
Infrared detection laser	1653nm
Green indicator laser	560nm
penetrate the glass	5th floor
Mechanical stop	-35° to 35°
Heat dissipation method	Active cooling
Ingress Protection Rating	IP54
Supported models	DJI Matrice 4/4D Series, DJI Mavic 3 Enterprise Series
Working pressure	40 to 160 kilopascals
Operating temperature	-35℃ to 60℃
Storage temperature	-45°C to 75°C
Ambient humidity	10% relative humidity to 95% relative humidity
Vibration testing	Complies with GB/T 2423.10 standard
Salt spray test	Complies with GB/T 2423.17 standard

# **Product Characteristics**

## OCompact structure Easy to plug and play

The new generation of the methane telemetry system has a compact structure and small size, weighing only 180g. It can achieve multi-layer glass penetration, with a high sensitivity of 5ppm\*m and 80-meter remote telemetry.

### OMethane detection sensor Capable of pitch

By using a remote controller, it can achieve a pitch angle of +30° to -30° for the detection sensor, expand the detection area, adapt to complex scenes, reduce obstruction interference, and significantly improve detection efficiency.

#### **O**Professional Intelligent APP

The device is controlled through the remote controller APP with the measurement data dynamically displayed and the alarm messages intelligently recorded.

#### OCloud platform data return for analysis

The intelligent inspection cloud platform can report on-site operation images and detection data in real time and generate a three-dimensional distribution map of methane detection in real time, providing visual decision-making information.

## OHigh compatibility

The device can adapt to multiple small aircraft, reducing usage costs compared with traditional solutions.