

EXPEC 3500 Portable Gas Chromatography Mass Spectrometry

Overview

The new generation of EXPEC 3500 portable gas chromatography-mass spectrometry (GC-MS) is a portable device for rapid qualitative and quantitative analysis of on-site organic matter, which can be used for rapid qualitative and quantitative analysis of volatile organic compounds (VOCs) in the atmosphere, water and soil, as well as semi-volatile organic compounds (SVOCs) in pesticides, drugs and explosives. At present, it is widely used in emergency monitoring, environmental monitoring, disease control, public security criminal investigation, fire control and other fields. EXPEC 3500 Portable GC-MS has excellent environmental adaptability and meets the needs of customers to obtain accurate analysis results in real time. It is an ideal on-site organic analysis expert!



Features

➤ The equipment is highly integrated, and the ultimate field portability

Liquid inlet

Whole heat tracing technology in zero cold zone is suitable for the detection of semi-volatile organic compounds

Gas electric warehouse

Battery, carrier gas, and internal standard system are fully built-in

MS direct injection

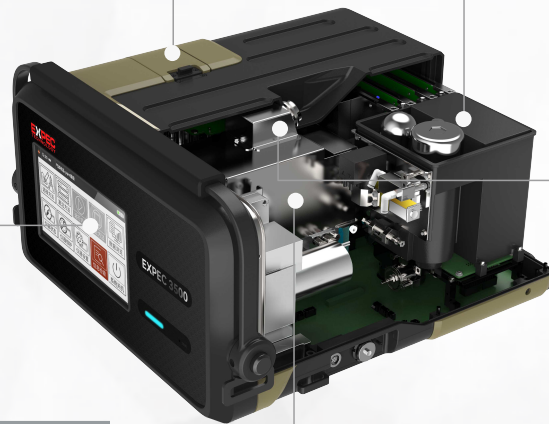
Second-level response, fast positioning

System software

Intelligent interaction, wizard operation

Sorbent tube/quantitative loop

Parallel design, one key switching



➤ Waterproof, dustproof and earthquake-resistant, strong environmental adaptability

The equipment is designed to be dustproof, waterproof and earthquake-resistant, fearless of the harsh environment challenges on site.



➤ Multiple application methods, comprehensive scene applicability

• Single/double shoulder

The whole machine is less than 19kg, and can be carried by one person, allowing you to easily reach the core area to obtain reliable on-site results.



• Portable mode

On-site monitoring trolley integrated power module, shock-absorbing design, assists sensitive point inspection, and saves on-site inspection and effort.



• Vehicle carry mode

The equipment can be quickly fixed to the shock-absorbing platform in the mobile inspection vehicle and complete the boot warm-up, fearless of complicated road conditions, and start working immediately after arriving at the scene.



• Offline sampling

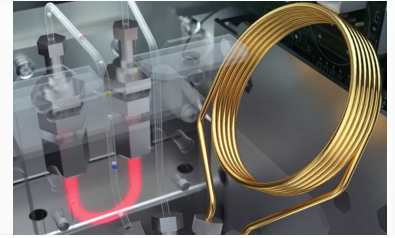
For dangerous areas, drones are used for remote sampling, and Portable GC can be used for on-site analysis directly after sampling.



➤ Multiple sampling modes, one machine with multiple functions and full configuration

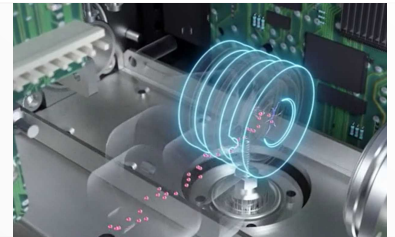
• Sorbent tube/quantitative loop injection

The built-in inert quantitative loop and adsorption tube can directly inject and analyze high and low concentration VOCs samples.



• Directly MS injection

The second-level response realizes the rapid positioning of pollutants, and there is no vacuum constraint, which can be used continuously for rapid screening.



• Headspace injection

It is mainly used for the detection of volatile organic compounds in water and soil, and can also be used for the detection of other material matrices.



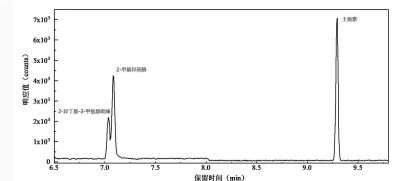
• Needle injection/SPME injection

Combined with liquid injection port, it is mainly used for the detection of semi-volatile organic compounds in drugs, water, soil and other matrices.



➤ A variety of scanning modes, the sensitivity is greatly improved

The product has full scan mode, selected ion scan mode and MS/MS scan mode, in which the detection limit of geosmin and 2-methylisocanthol is less than 10ppt.



➤ Intelligent software, wizard operation

Intelligent interaction, no need for professional technical background to become an on-site organic analysis expert.



probe interaction



host interaction

Application

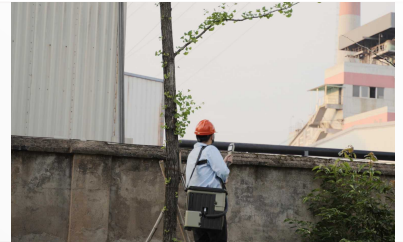
- **Emergency monitoring**

Rapid response and accurate quantification can be achieved through the single mass spectrometry injection mode and gas chromatography mass spectrometry injection mode, and the on-site situation can be grasped at the first time to assist scientific decision-making.



- **Environmental monitoring**

One-button switching to analyze trace VOCs in ambient air and ultra-high concentration VOCs in pollution sources. In addition, the VOCs and SVOCs in water and soil can be qualitatively and quantitatively analyzed through headspace and solid-phase microextraction comprehensive pretreatment equipment.



- **Criminal investigation**

Through gas chromatography-mass spectrometry technology, drugs have nowhere to hide, and realize the "hand of technology" to accurately describe the "three-dimensional image" of the drug problem.



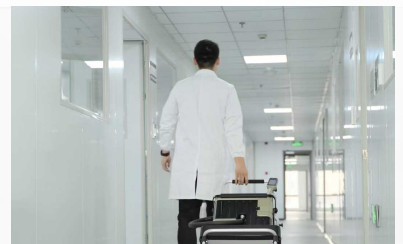
- **Fire control**

Equipped with gas sampling probe, solid phase microextraction comprehensive pretreatment instrument, thermal desorption sampling system and other accessories to detect on-site combustibles, explosives, and combustion residues, and assist in the investigation of the cause of fire accidents.



- **Disease control**

Sampling and analysis can be carried out at different locations in the workplace, and the test results can be given quickly. In addition, the product can collect the patient's exhaled breath for qualitative and quantitative analysis to assist in the diagnosis of related diseases.



After-sale Service

- Strong technical force
- Efficient after-sales response
- Strong spare parts guarantee
- Excellent value-added services
- Rich practical experience

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