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GC6100
Gas Chromatograph



Google



Alibaba

More Trustable With Forever
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Company overview

ANHUI WANYI SCIENCE AND TECHNOLOGY CO., LTD. (Wayeal) Established in 2003, Wayeal achieved a significant milestone in 2020 as the first company from Anhui Province to be listed on the SSE STAR Market (Stock Code: 688600). As a leading global supplier of scientific instruments, we specialize in industrial inspection, online monitoring, laboratory analysis, and life science instrumentation. With a workforce of over 1,300 professionals, we serve clients in more than 20 countries, delivering innovative, high-precision solutions to meet diverse industry needs.

Guided by our core philosophy of "Quality and Service as Our Foundation," we dedicate 20% of our annual revenue to R&D, supported by advanced innovation platforms such as the National Enterprise Technology Center and a postdoctoral research station. Our commitment to technological excellence has earned us prestigious accolades, including recognition as a "National Little Giant Enterprise" and a "National Intellectual Property Demonstration Enterprise", underscoring our leadership in innovation and intellectual property development. Moving forward, Wayeal is committed to becoming a global leader in precision instrumentation and life health solutions, driving technological advancement while maintaining the highest standards of corporate responsibility and sustainable growth.

More trustable With forever

GC6100 Gas Chromatograph

Crafted with Precision, Driven by Innovation



ANHUI WANYI SCIENCE AND TECHNOLOGY CO., LTD has launched a new GC6100 series of gas chromatography products, these products has been developed with a focus on enhancing product automation and intelligence to avoid unexpected downtime. Additionally, the new GC6100 series can be coupled with the self-developed mass spectrometer. This enables a single software to easily control the entire gas chromatography-mass spectrometry system, making operation simple and maintenance worry-free. The powerful analysis system and intelligent control software provide customers with more professional and systematic solutions and services, helping them achieve greater value.

Product features



Accurate analytical system with excellent performance and flexible scalability



Smart user experience with simple operation and effortless maintenance



Rigorous quality control ensures assured quality and stable reliability



A comprehensive service system dedicated to customer focus, promptness, and thorough solutions



➤ Accurate analytical system with excellent performance and flexible scalability



Smart

The IoT-based dual-core main control board design, integrating a quad-core main processor and a dual-core coprocessor, enables smart connectivity and self-diagnostic capabilities to prevent unplanned downtime.



Precise

High-stability and high-precision electronic pneumatic control and column oven temperature control, paired with a high-performance mass spectrometer detector, deliver optimal chromatographic performance.



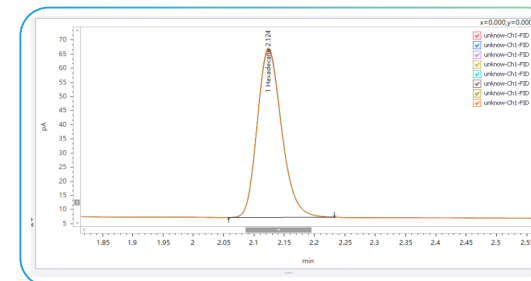
Reliable

The self-tuning PID control system, integrated with temperature and pressure compensation algorithms, guarantees detection accuracy against environmental variations, maintaining high consistency both within a day and across days.



Flexible

Compatible with pre-treatment devices and expandable detectors such as FID, this system incorporates inertization technology and microfluidic flow control, enabling effortless resolution of complex analytical challenges.



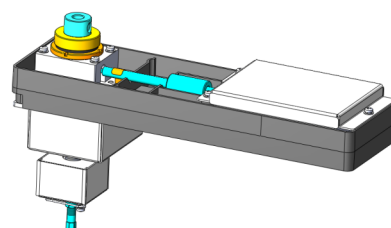
Compound Hexadecane									
Index	Color	Sample Name	Retention Time...	Peak Area(pA...	Peak Area(%)	Peak Height(p...	Peak Height(%)	Peak Width...	Half H
1	Red	unknown	2.1238	166.052	100.000	58.964	100.000	0.073	
2	Blue	unknown	2.1238	166.515	100.000	59.847	100.000	0.073	
3	Green	unknown	2.1237	166.380	100.000	59.638	100.000	0.073	
4	Yellow	unknown	2.1238	166.478	100.000	59.875	100.000	0.073	
5	Cyan	unknown	2.1242	166.525	100.000	59.747	100.000	0.073	
6	Brown	unknown	2.1237	166.846	100.000	59.591	100.000	0.073	
7	Olive	unknown	2.1238	166.682	100.000	59.961	100.000	0.073	
8	Orange	unknown	2.1237	166.796	100.000	59.824	100.000	0.073	
Average			2.1238	166.534	100.000	59.681	100.000	0.073	
RSD(%)				0.0077	0.152	0.000	0.527	0.000	

Demonstrates excellent repeatability in retention time and peak area across 7 consecutive injections

➤ Powerful control software: Simple to operate, highly efficient, and engineered for safety and reliability

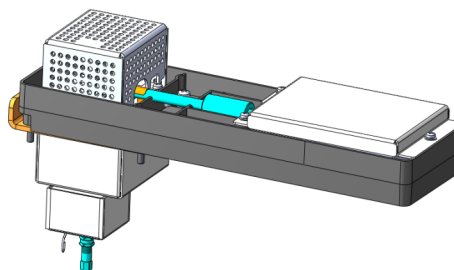
Flame Ionization Detector

- Sampling rate up to 1000 Hz, suitable for detecting peaks with half-widths as narrow as 5 milliseconds.
- The digital amplification circuit has a low detection limit, a wide linear range, and does not exhibit flat-topping at high concentrations.



Electron Capture Detector

- Low radiation, small volume microcell design, high sensitivity, safe and reliable.
- Intelligent temperature and flow control algorithm, prevents cross-contamination between samples, protects the detector, and extends its lifespan.

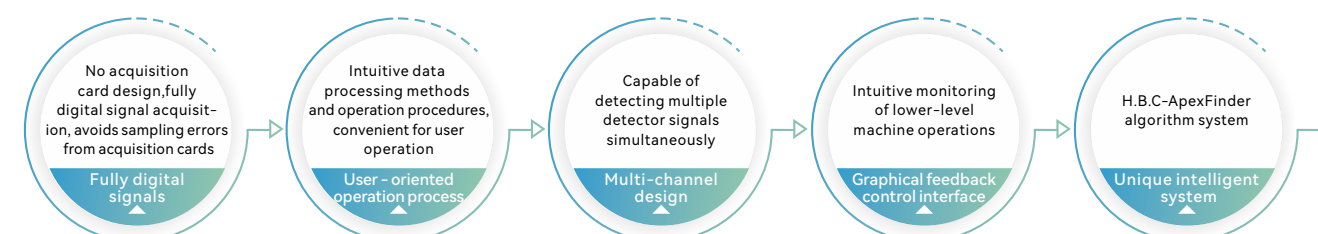
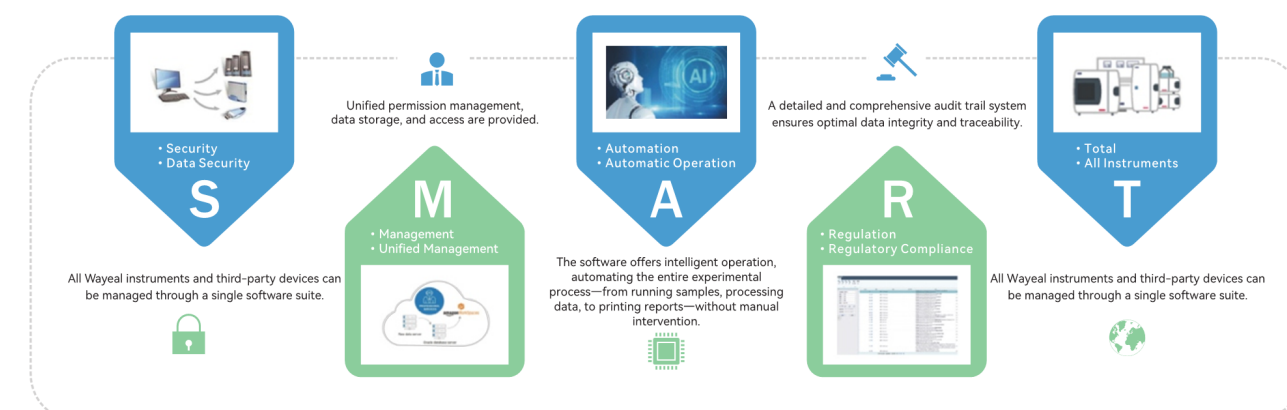


MSD7000 Series Mass Spectrometer Detector

- Low radiation, small volume microcell design, high sensitivity, safe and reliable.
- Molybdenum gold-plated quadrupole with pre-rod provides strong anti-contamination capability.
- Wide-temperature-range, high-precision digital RF power supply ensures stable and reliable operation.
- Triple off-axis detector reduces neutral noise, delivering cleaner mass spectra and lower detection limits.

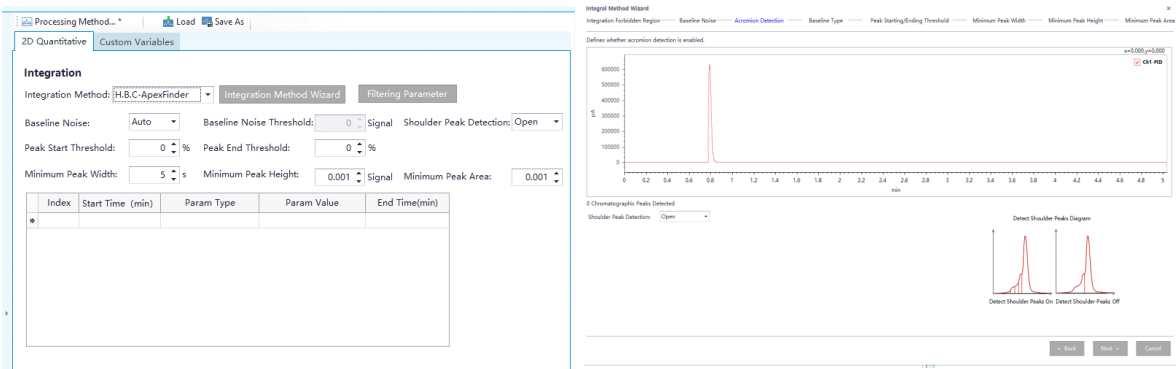


1、The intelligent Smart Lab Chromatography Mass Spectrometry Workstation delivers simplicity, efficiency, and secure reliability



2、Smart H.B.C-ApexFinder algorithm, accurate and efficient for batch data processing

- Wizard-guided interface with intuitive visual instructions assists customers in optimizing integration parameters, enhancing analysis efficiency.
- The Smart Peak intelligent peak detection algorithm employs a second-order method, simplifies the integration process, and effectively identifies shoulder peaks and small peaks.



➤ Smart user experience with simple operation and effortless maintenance

1、Multi-terminal control enables you to monitor the status of the instrument anytime, anywhere

- A 10.1-inch full viewing angle HD capacitive touchscreen with an interactive graphical control interface.
- The SmartLab CDS workstation boasts robust functions for data acquisition, analysis, processing, and reporting.
- Browser-based user interface enables remote control across mobile phones, tablets, and computers with ease.

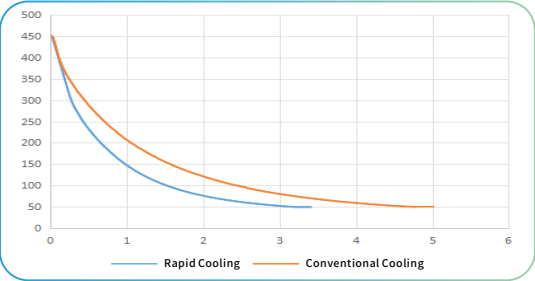


2、User-friendly self-inspection, diagnosis, and maintenance reminders ensure the instrument is always in its ideal operating condition

- Built-in automated diagnostic tests enable real-time instrument status monitoring and maintenance.
- Real-time monitoring of instrument operation status, intuitively displayed to the user through a four-color LED indicator strip.
- Equipped with Carrier Gas Saver Mode and Sleep/Wake Mode to reduce operating costs and overall energy consumption.
- The device has been subjected to rigorous testing under high and low temperatures, vibrations, alternating wet and dry conditions, and drop tests, making it more reliable.

3、Flexible configuration to effortlessly tackle complex analytical challenges

- Seven-channel temperature control module with rapid column oven heating/cooling rates supports multi-detector simultaneous analysis for diverse applications.
- Compatible with liquid autosamplers, headspace, purge-and-trap pre-treatment devices for high-throughput sampling.
- Integration with multiple detectors and valve boxes, combined with inertization and microfluidic flow control, enables complex sample analysis.



➤ A comprehensive service system dedicated to customer focus, promptness, and thorough solutions

Customer-focused approach, building a realistic and supportive service framework for overseas markets

Responsiveness	Expertise	Practical Support
Timely Communication	Reliable Knowledge	Feasible Solutions
Dedicated Support Channels ■ Online technical support by a global customer team ■ 24/7 email and messaging response service ■ Basic spare parts supply based on prior agreement	Technical Knowledge Sharing ■ Comprehensive product manuals and video tutorials ■ Remote guidance from senior technical experts ■ Continuous improvement through R&D investments	Adapted Professional Services ■ Access to knowledge base and FAQs ■ Optional training programs via online or at our facilities (Wayeal Lab) ■ Support coordinated thorough regional partners where applicable