

IC6200 INTEGRATED ION CHROMATOGRAPHY SERIES



ANHUI WAN YI TECHNOLOGY CO., LTD

ANHUI WANYI SCIENCE AND TECHNOLOGY CO., LTD

SERVICE AND SUPPORT SYSTEM

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IC6200 INTEGRATED ION CHROMATOGRAPHY SERIES

Quality Leads Development

The new generation of intelligent integrated ion chromatograph IC6200 series can be remotely controlled, instructed and software updated through Ethernet connection. With one-button intelligent maintenance, possessing the advantages of high precision, high stability and intelligence, which can effectively improve the productivity of the laboratory. At the same time, IC6200 appearance upgraded with new Wan Yi family design, equipped with 10-inch intelligent large screen and ambient lighting design, highlighting the high visual value of the instrument, to create a fantastic experimental experience for customers.



INSTRUMENT FEATURES

- Leakage alarm**
When leakage is detected, the instrument will be detected in time and automatically alarmed, and automatic shutdown can be realized.
- Auto range detector**
Based on DSP architecture design, the output value is direct conductivity value, the detection frequency is up to 100Hz, can flexible adjustment and realize the auto-range function.
- Simple piping layout**
The piping design is simple, clear at a glance; easy to operate and maintain, improve work efficiency.
- Online Emptying**
Automatic evacuation of the high-pressure flow path can be realized, reducing manual operation by the experimenter.
- Peristaltic pump post-pump cleaning function**
Used for cleaning chromatography pump plunger rods to reduce buffer salt precipitation and to prevent wear on plunger pads and jeweler's rods.
- High-definition 10-inch touch screen**
Real-time display of the instrument flow path and the operating status of each component, one-button operation, at any time to view.
- Consumable ID identification and life monitoring**
ID coding and lifetime monitoring of consumables, such as suppressors, can be realized to provide effective reminders and avoid the reduction of detection efficiency caused by consumables.

KEY COMPONENT ADVANTAGES

Precision ion chromatography pumps made of PEEK

- AI PEEK pump head resistant to acids, alkalis and reversed-phase organic solvents, preventing metal contamination;
- Optimized floating mechanical design extends the lifetime of the pump and the pressure transducer, thereby reducing instrument operation costs and the frequency of maintenance;
- The intelligent electronic pulsation suppression technology supplies eluent with highprecision, low pulsation, and low drift;
- Equipped with high and low-pressure protection mechanisms, the system instantly safeguards the entire analytical system;

All-plastic non-metallic flow path

- All PEEK pumps;
- PEEK motorized injection valve;
- Eluent generator cartridge, liquid pipeline and connector are made of acid and alkali corrosion resistant materials such as PEEK, PTFE, PP, etc;
- All-plastic colorful liquid pipelines are convenient for customers to identify the operation;

Highly precise temperature control for the whole system

- Built-in column temperature chamber with high efficiency heat exchange technology ensures the heating efficiency and temperature control accuracy of the column to ensure the stability of the results;
- Lysate (Eluent) preheating function: Lysate (Eluent) and sample are preheated before entering the column to avoid the negative effects of poor reproducibility and peak spreading (such as repeatability and peak diffusion) caused by temperature difference;
- The high precision (high-precision), efficient (high-efficiency) temperature control and temperature compensation functions of the conductivity cell ensure the stability and (high) sensitivity of the detection, provide a wide dynamic detection range, and realize the simultaneous analysis of high and low content components;

Electrolytic regenerated membrane suppressor

- Electrolytic self-regenerating membrane suppression method, reagent-free design, without the requirement of additional acid and alkali, without regeneration;
- Provides continuous and stable suppression capability, greatly improves analytical stability, and reduces system noise and drift;
- Fast balance time, no risk of membrane drying and cracking, long service life;
- Special suppressors are available for both anion and cation analysis;

One-button intelligent health maintenance

- One-Button Rinsing: The system enables automatic rinsing after analysis, ensuring effective cleaning, reducing time costs, and improving work efficiency;
- One-Button Maintenance: With one-button operation, the system automatically performs instrument maintenance without the need for manual supervision or intervention, prolonging the instrument's lifespan;

Environmentally Friendly, Reagent-Free Ion Chromatography

- The "Water Only" eluent generator harnesses electro dialysis technology to produce the reluent on-demand, eliminating manual preparation;
- A comprehensive range of eluent generators includes varieties of generating hydroxide, carbonate, and methanesulfonate, catering to meet various experimental analyzing needs;
- Under isocratic pump conditions, the system achieves gradient eluent, lowering costs and significantly improving the reproducibility of experimental results while reducing labor and environmental pollution;

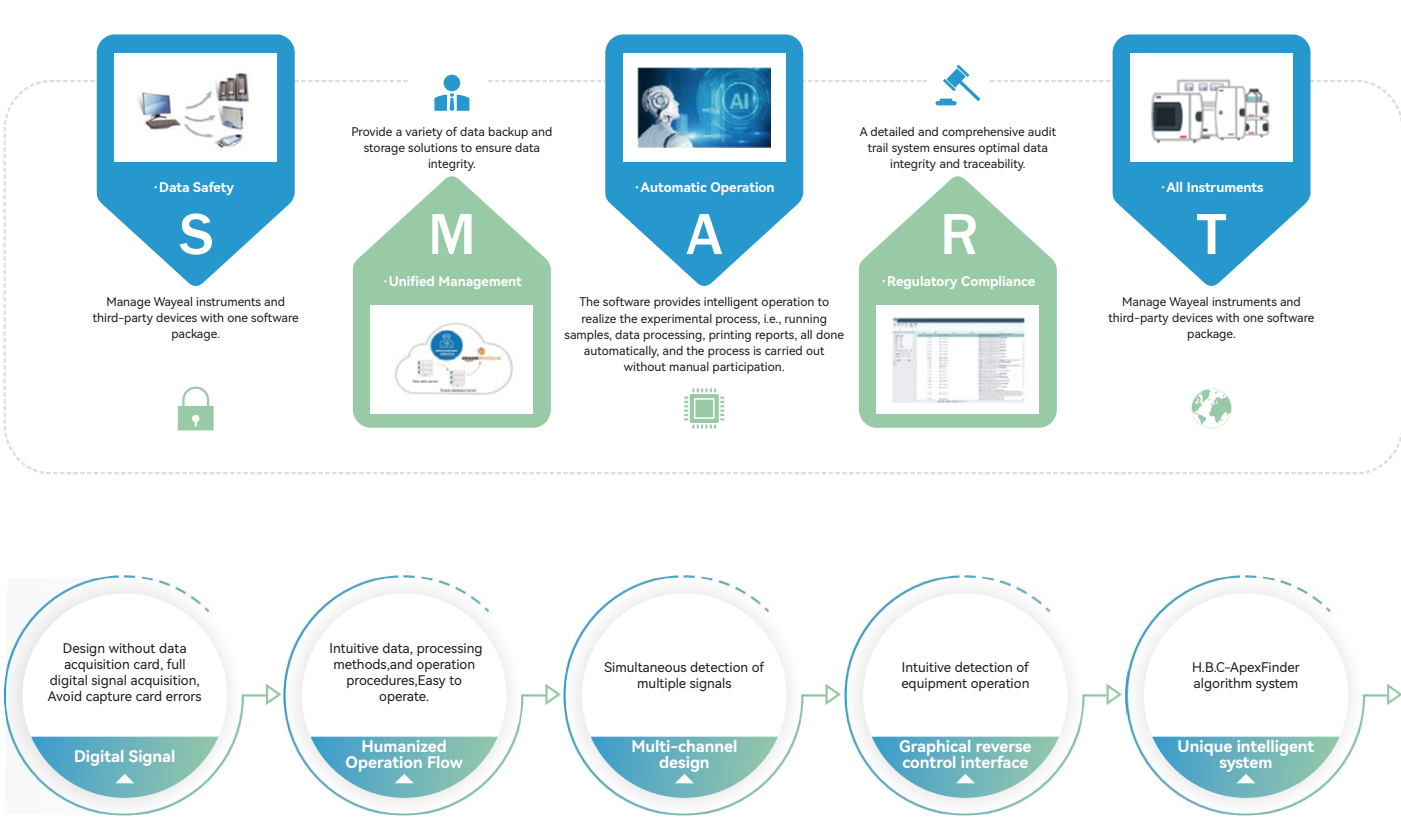


- AS2800 Series Autosampler
- With sample cover, effectively avoid environmental pollution;
 - Support single-channel injection and dual-channel injection for analysis;
 - Support large sample volume(2 mL);
 - Support different sample trays replacement;
 - Can be used for the analysis of trace sample concentration;
 - With a variety of wash modes, such as coarse washing, fine washing, and so on;



- AS3110 Series Ion Chromatograph Autosampler
- Support multiple sample vials of different volumes;
 - Different sample trays up to 120 sample well positions available;
 - Support auto dilution for calibration curve measurement with a single standard sample;
 - Support temperature control for sample stability;
 - Support multiple injection mode(push mode, pull mode, single channel sampling, dual channel sampling);

Smart Lab CHROMATOGRAPHY WORKSTATION



Unique H.B.C-ApexFinder Algorithm System – Efficient, Intelligent, Compliant

Development of Smart Peak Intelligent Peak Detection Function: Using a second-order algorithm and simplified integration process, this function provides consistent and reliable peak detection across multiple chromatograms. It can identify shoulder peaks and small peaks, as well as simulate high-order integration, including Gaussian trimming, tangent trimming, and exponential trimming. By combining valley-to-valley and perpendicular-line trimming, and with interactive tools for smart integration, it offers users rich choices and a convenient experience. The guided mode helps operators set initial chromatographic peak detection parameters, providing clear visual explanations to assist customers in optimizing integration. Modifications are displayed in real-time, allowing for an intuitive trial-and-error approach, minimizing user input, and significantly improving the experience for analysts.

