Innovate T5 OES

High Precision Metal Analyzer



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Simple and efficient.



Application

The Innovate T5 employs an optical vacuum system that works in coordination with a fully digital excitation source, ensuring stable spectral data output even in complex working environments. The device is designed for growing metalworking enterprises, automotive component suppliers, and foundries, addressing diverse material analysis needs with its reliable detection performance.

With its simple and user-friendly operation, even new operators can quickly get up to speed. The equipment operates with consistent stability and reliability, providing continuous data support for quality control and process improvement. It is well-suited for metalworking enterprises seeking to enhance operational efficiency and competitiveness.

Technical Specifications

Product Model	Innovate T5
Detectable matrix	Fe,Al,Cu,Ni,Co,Mg,Ti,Zn,Pb,Sn,etc.
GRADE database	Included
Light source type	Programmable digital light source
Optical system	Paschen-Runge mounting
Wavelength range	140–680 nm
Grating focal length	401 mm
Height x Width x Depth	L585*W800*H400mm
Weight	Approximately 85kg

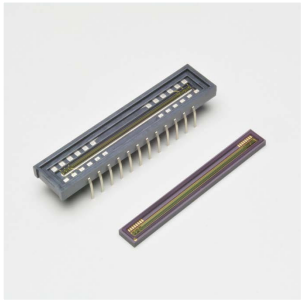
Technical Features

The Innovate T5 incorporates internationally advanced jet-electrode technology, utilizing a tungsten electrode. During excitation, an argon jet stream forms around the electrode, effectively isolating the excitation point from ambient air and thereby enhancing analytical precision. Its proprietary argon pathway design further minimizes argon consumption, reducing operational costs for users.



The instrument features a three-side open excitation stage, which combined with auxiliary components, enables the detection of samples with complex shapes and irregular dimensions .

(e.g., thin metal wires, lightweight spring washers with a diameter of 1.5 mm, hexagonal bolt heads, curved cross-sections of pipes, etc.).

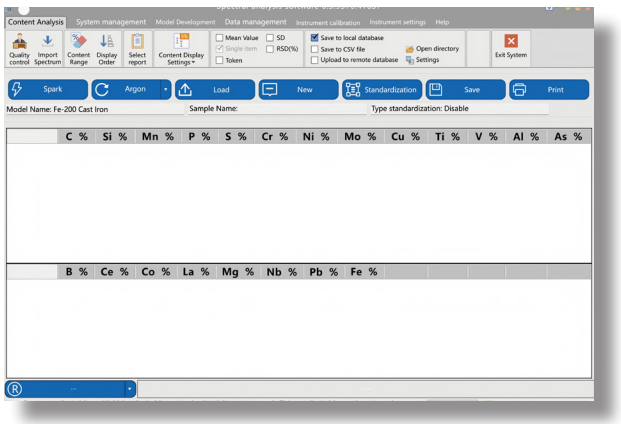


- It adopts a CMOS sensor produced by HAMAMATSU of Japan.
- Enhanced UV sensitivity with excellent noise immunity.
- High-precision acquisition capable of detecting weak optical signals.
- High-speed data collection for improved detection efficiency.

Supporting Software

The instrument is equipped with software developed on the Windows platform, supporting a multilingual operating system that can be customized as required. Additionally, it includes a database of over ten thousand sample brands and allows customization of built-in calibration curves. This effectively addresses analysis challenges caused by the lack of standard samples in special working conditions, ensuring the immediate reliability of detection data.

- Online drift correction: Compensates for measurement variation trends over time, helping to ensure ongoing measurement stability.
- NEW Operation Timer: Displays real-time measurement countdowns, enabling operators to efficiently plan workflow steps.



Our Service



Our global network of service hubs provides a full range of technical support:

- Telephone help-desk
- On-line diagnostics
- Rental instruments
- Maintenance
- Training
- Extended warranty
- Consumables and accessories
- Repair service

Optional Accessories



JB-4B
Argon Purifier



CWY-II-1KVA
Stabilizer



MYJ-1A
Grinding Machine



OT2-A180A
Mini Lathe



CRM

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