

Optical Emission Spectrometer

Innovate T5

INNOVATE T5 Desktop Optical Emission Spectrometer

High Performance and Precision in a Compact Design

The Innovate T5 is a mid-range desktop spectrometer model with a vacuum pump, offering superior performance and reliability. Its compact design saves valuable workspace without compromising capability.

Advanced Optical System and CMOS Technology

Equipped with high-resolution CMOS sensors manufactured by Japan's Hamamatsu, the optical system features an optical heater that ensures stable and accurate measurements between -5°C and +37°C. Utilizing a fiber-optic-free digital light source and an argon oscillation vacuum optical chamber, it combines the full-spectrum advantages of with the low detection limits of PMT (Phototube).

User-Friendly and Multilingual Interface

With Turkish and multilingual support, the device can be operated easily by all personnel after just 2 hours of training. It comes pre-loaded with global quality standard libraries that can be updated based on customer requirements.

Hardware and Software Features

The system includes a 27-inch touchscreen computer with a wireless keyboard and mouse. The computer is powered by an i5 processor, 16 GB RAM, 256 GB SSD storage, and runs Windows 11 in Turkish. Essential office software is pre-installed.

Fast and Precise Analyses

Provides analysis results in approximately 30 seconds. Results can be exported in PDF and Excel formats. The standard 30-element system can be expanded to 48 elements through software updates. It offers precise ppm-level measurements for low-wavelength elements such as nitrogen.

Energy-Efficient and Durable Design

The vacuum pump operates automatically to conserve energy. Argon gas purity is $\geq 99.9999\%$, with an input pressure of 0.5 MPa and flow rate of 3.5 L/min.



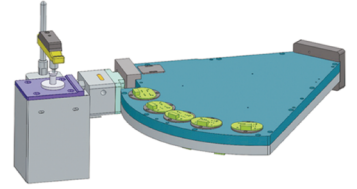
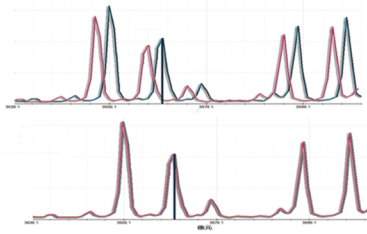
Applications

- ✓ Casting
- ✓ Metallurgy
- ✓ Machine Maintenance
- ✓ Fire Control
- ✓ Aerospace
- ✓ Metal Processing
- ✓ Metal Quality Control
- ✓ New Material Research
- ✓ Scientific Research



Technical Specifications

- ✓ Optical System: Paschen-Runge mounting
- ✓ Focal Length: 401 mm
- ✓ Wavelength Range: 140–680 nm
- ✓ Detector: Multiple high-resolution CMOS detectors
- ✓ Optical Chamber: Integrated vacuum design
- ✓ Excitation Source: Digital high-burn technology
- ✓ Power Supply: AC 220V / 50Hz
- ✓ Operating Conditions: 10–30°C / 20–80% relative humidity
- ✓ Operating Temperature: -5°C to +42°C
- ✓ Storage Temperature: 0–45°C



Product Parameters

Argon Gas Requirements

Safılık Oranı: $\leq 99.9999\%$
Giriş Basıncı: 0.5 MPa
Tüketim (Akış Hızı): 3.5 L/dk

Dimensions and Weight

L590 x W790 x H350 mm, 78 kg

Innovate T5 is a reliable analysis solution offering high accuracy, ease of use, and durability for your industry. Contact us for more information and demo requests