

Optical Emission Spectrometer

Exquis T4 Pro

Exquis T4 Pro Optical Emission Spectrometer

High Performance, Compact Design, Advanced Technology

Exquis T4 Pro offers high-precision analytical performance in a compact body as the most compact and economical model in the series without a vacuum pump. Equipped with advanced CMOS sensor technology developed by Hamamatsu, the device stands out with its low maintenance requirements and long-term stability.

User-Friendly Operation

Thanks to its multi-language support, including Turkish, and user-friendly interface, it can be easily operated by all personnel after just two hours of training. Exquis T4 Pro improves speed and efficiency in industrial processes.

Extensive Standard Grade Library – Flexible Quality Management

The software comes preloaded with a globally recognized grade library. Users can easily update the minimum and maximum element values for each grade based on their specific requirements.

Temperature Resistance – Stable Results

With its optical heating system, the device operates stably within a temperature range of -5°C to +37°C. Changes in ambient temperature do not affect analytical accuracy. Its maintenance-free design eliminates user-dependent tasks like optical cleaning, ensuring long-term and safe usage.

Advanced Light System – High Sensitivity

There is no need for a vacuum pump to create an inert atmosphere in the optical chamber, as argon gas is used. It also eliminates the need for fiber optic cables. Exquis T4 Pro delivers highly stable and sensitive results comparable to PMT (Phototube) systems and offers superior analytical capabilities through CMOS technology.

High-End Hardware

The "all-in-one" computer system includes a 27-inch touchscreen, wireless keyboard and mouse, 16 GB RAM, 256 GB SSD storage, and Windows 11 Turkish operating system. It comes with pre-installed Office programs and all necessary software. Delivered as a complete set with an argon regulator, connection accessories, calibration samples, and a comprehensive toolkit with spare parts.

Smart Grade Recognition & Advanced Reporting

Analysis results obtained in approximately 30 seconds can be automatically matched with existing standards using the device's smart grade recognition feature. Results can be exported in PDF and Excel formats, and customized reports with user logos can be easily created. The device supports 30 elements by default and can be upgraded to analyze up to 48 elements via free software updates.

Continuous Support – Remote Access Capability

Thanks to remote connection software, technical support can be provided instantly and without interruption. Calibration and user training certificates are offered free of charge for a lifetime, and remote access support is covered under unlimited warranty.



Application Areas

- ☑ Metallurgy and Foundries
- ☑ Automotive and Machinery Industry
- ☑ Shipbuilding and Aerospace
- ☑ Electrical and Nuclear Energy Sectors
- ☑ Petrochemical and Commodity Inspection
- ☑ Scientific Research Laboratories
- ☑ Defense and Arms Industry

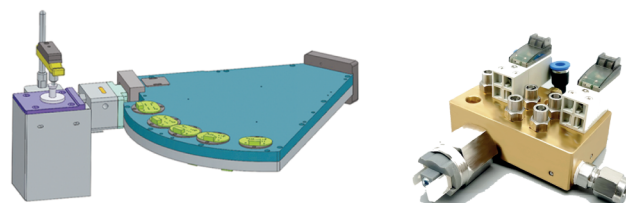
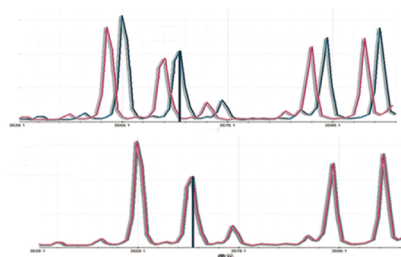
CMOS Full Spectrum Technology

Exquis T4 Pro is equipped with a main processor board featuring an ultra-fast data acquisition system that automatically monitors all working conditions, including optical chamber temperature, argon pressure, light source, and spark system. Improved jet stream technology and tungsten electrode structure enable more stable and accurate results.



Product Features

- ✓ Optical System: Paschen-Runge configuration
- ✓ Focal Length: 401 mm
- ✓ Wavelength Range: 160-580 nm
- ✓ Power Supply: AC 220V / 50Hz
- ✓ Operating Conditions: -10-30°C / 20-80% relative humidity
- ✓ Detectors: Multiple high-performance CMOS detectors
- ✓ Optical Chamber: Integrated design with automatic constant temperature control



Product Parameters

Spark Area

Thanks to the open spark stand, it can analyze samples of various sizes, including rods up to 60 cm in length. After every 500 analyses, the spark area can be easily cleaned within seconds using a simple brush (this is the only required maintenance).

Argon Gas

Operates with high-purity argon gas. Requires argon with 99.999% purity

Dimensions and Weight

L525 x W635 x H290 mm, 33 kg

With its compact design, high-accuracy analytical capability, and user-friendly interface, **Exquis T4 Pro** sets a new standard in metal analysis technology.