





MicroNIR™ Pro ES

An ultra-compact, general-purpose spectrometer

The MicroNIR Pro 1700 ES is a lightweight and costeffective near infrared (NIR) spectrometer that combines Viavi's high-precision optical coating technology with innovation in optical system design and miniaturization.

Integrating Viavi linear variable filter (LVF) technology as the dispersing element, the spectrometer contains the light source, collection optics, electronics, and LVF in a housing that is <50 mm in diameter, <45 mm tall, and only 64 g light. The spectrometer is USBpowered and can be used in diffuse reflection, transmission, or transflection modes.

A MicroNIR Pro package includes a number of accessories that either enhance ease-of-use or enable measuring with different configurations that best fit specific applications.

Standard Accessories

- Vial holder with 100 5 ml glass vials
- Standard collar for normal operation
- · Windowed collar for powder and soft material measurement and easy cleaning
- 99% spectralon references for vial measurement and point-and-shoot operation
- Bracket with 1/4-20 thread for ease of mounting on
- Softshell case for shipping and transportation

standard optical post or mount

Key Benefits

- Covers the first and second overtone spectral region: 950 - 1650 nm
- Enhanced electronic and mechanical design for better thermal control and system stability
- · Real-time predictions and method management
- · Powerful calibration model development tool

Applications

- · Pharmaceutical
- · Food, feed, and agriculture
- · Industrial processing

Options

• Transmission fixture for liquid sample measurement

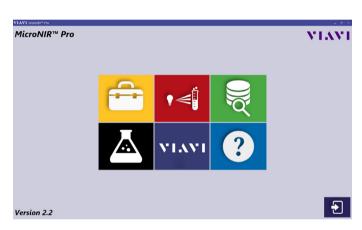


Software

The MicroNIR Pro ES 1700 includes data acquisition, method development, user management, and real-time prediction software. Within the model development software, a developer can perform spectral data pre-treatments with a full suite of industry-standard tools such as smoothing, derivatives, and baseline corrections.

Instrument performance qualification per USP 1119 test criteria and tools enabling 21 CFR part 11 are available. Embedded calibration development software powered by CAMO Software's The Unscrambler® X provides regression and classification algorithms and a complete set of chemometric tools for calibration model development and data investigation.

The MicroNIR Pro Lite version does not include the embedded calibration development software, but it is compatible with CAMO Software's Unscrambler X (version 10 or higher).





Specifications

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nA @5 V)
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Ordering Information

For more information, please contact your local Viavi account manager or Viavi directly at 1-800-254-3684 worldwide or via e-mail at micronir@viavisolutions.com.

Visit our product information page at www.viavisolutions.com/micronir.



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