

Anavo™ Handheld NIR Material Analyzer

PRODUCT DESCRIPTION



The Anavo™ Analyzer by Axsun combines the accuracy of an expensive near-infrared (NIR) laboratory instrument, with the speed and convenience of an all solid-state solution. The result is the fastest, most accurate portable NIR analyzer on the market today.

Based on Axsun's unique micro-optical platform and patented MEMS technology, the Anavo™ Analyzer enables the next generation of ruggedized, field-portable instrumentation. With no moving parts to maintain and never any light bulbs to burn out and replace, the

Anavo™ Analyzer's state-of-the-art laser and micro-optical technology represents a step function improvement in ruggedness and reliability. Further, the intuitive user interface enables sophisticated, non-destructive, NIR measurements to be taken instantaneously, in the field by technical and non-technical users alike.

Near-infrared (NIR) analysis has long been used by scientists and researchers to identify unknown materials by observing their unique spectral "fingerprints". While the technique is not new, traditional instruments use light bulbs, large optics and expensive lab platforms to make the measurement. Less expensive techniques have been developed, but have lacked the accuracy needed for many applications.

The Anavo™ Analyzer is the first portable NIR analyzer to combine the performance of expensive lab-grade instruments with the small size and ruggedness of 100% solid-state construction in a handheld, field portable package. The result is a simple, intuitive instrument that takes only minutes for even an inexperienced user to begin operating.

Fast, Accurate "Point-and-Shoot" Answers, Designed Specifically for Industrial Use

The Anavo™ Analyzer was specifically designed as a simple, point-and-shoot material identifier for harsh industrial environments. While the user interface is purposefully kept simple, inside the Anavo™ Analyzer is a sophisticated detection, calibration and analysis software suite, designed to quickly identify materials based on their unique near-infrared (NIR) spectral signatures. The high resolution of the Anavo™ Analyzer's laser-based spectrometer, enables the fastest, most accurate material identification of any portable unit on the market today.

The Anavo™ Analyzer is delivered with an application-specific analysis library built into its internal memory, allowing for immediate use right out of the box. Additionally, the Anavo™ Analyzer has the ability to "learn" new materials, thereby expanding the analysis capability. In addition to identifications, the Anavo™ Analyzer can perform quantitative analysis, determining concentrations of critical components.



FEATURES AND BENEFITS

- Instantaneous (< 1sec) material identification
- Provides quantitative and qualitative measurements
- Field ruggedized package designed for harsh industrial environments
- Intuitive LCD user interface
- Field configurable for custom materials and applications
- Sort e-plastics, automotive resins, etc.
- Quick change, rechargeable Li:Ion batteries
- Internal, automatic calibration assures long-term accuracy
- Wireless communication allows for tracking and logging of data
- No spare parts or bulbs to replace or maintain
- Ergonomic package designed to reduce repetitive stress syndrome
- Minimal training required
- Dual triggers for ease of use in various applications



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PRODUCT DESCRIPTION

General Specifications

Mode of Operation:	Non-destructive analysis via near infrared spectroscopy
Measurement Time:	Instantaneous (<1 sec)
Display:	LCD Screen
Calibration:	Automatic internal calibration
Power:	Rechargeable Li: Ion battery, AC power option available
Dimensions:	16.5" x 8.5" x 3.5"; 42cm x 22cm x 9cm
Identification Library:	Supplied Library updates available via internet
Custom Materials:	May be added using industry standard software
Audio:	Audio response using speaker and/or earpiece
Data Transfer:	USB or optional wireless
Data Logging:	Optional data logging software available
Warranty:	1 yr, parts and labor. Extended warranties and service contracts available
Lease:	Lease options available
Temperature Range:	40°F to 115°F; 5°C to 45°C

The Axsun Anavo™ Analyzer is delivered complete and ready to use with the following standard accessories.

Spare Battery
110/220V Battery Charger
Documentation CD
Shoulder Strap

Optional accessories are available as indicated below.

Option	Description
Line power transformer	Allows operation of Anavo from AC power
Battery	Additional spare battery
Data Logging Software	Stores Anavo results – Data transmitted from Anavo to computer (customer supplied) wirelessly or via USB
Reusable shipping/storage container – Protects Anavo™, charger and 2 batteries	Wheeled, waterproof protective case with foam cutouts to fit complete system



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