

LSP-T SERIES

DIAMOND ATR FTIR ANALYZERS

Models LSP-T-9



PRODUCT HIGHLIGHTS

- **Integrated Multiple Reflection Diamond ATR**
 - No sample preparation
 - Minute quantities of sample needed
 - Analysis takes only minutes
 - Easy to clean
 - Resistant to abrasion and corrosion
 - High sensitivity
- **Integrated Chemometric PLS interface**
- **Integrated Sample Temperature Controller**

Durasens LSP-T series Diamond ATR Analyzers are compact, easy to use analyzers designed for the rapid analysis of liquids, oils, emulsions, gels, pastes, and slurries by mid-IR FTIR spectroscopy. The LSP-T analyzers are ideal for composition verification and multicomponent analysis of samples in the food, beverage, pharmaceutical, chemical, petrochemical, and related industries.

The LSP-T Series Analyzers feature a built-in multiple reflection diamond ATR sampling element.

In addition to the standard FTIR software, the LSP-T Analyzers feature integrated chemometric software. The integrated chemometric software can be customized to fit the user's particular application.

Temperature control of the sample is easy since the new Durasens analyzers also feature a built-in sample temperature controller that is controlled within the analyzer's own FTIR software.

SAMPLE TYPES

Liquids ■ Oils ■ Emulsions ■ Gels ■ Pastes ■ Slurries

INDUSTRIES SERVED

Food ■ Beverage ■ Pharmaceutical ■ Chemical ■ Petrochemical ■ Agricultural

TYPICAL APPLICATIONS

Incoming QA/QC ■ Final QA/QC ■ Food Adulteration ■ Petrochemical blending

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SPECIFICATIONS

Measuring Technology	ATR FTIR
Spectral Range	From 7000 to 500 cm^{-1}
Resolution	2 cm^{-1} , 4 cm^{-1} , 8 cm^{-1} , 16 cm^{-1} , 32 cm^{-1} ,
Warm Up Time	3 minutes
Response Time	Under 3 minutes
ATR Sampling Element Material	Diamond
Number of Reflections	Nine
Sample Temperature Range	From room temperature to 75°C
Sample Temperature Controller	Built-in and controlled within FTIR software
Software	Essential FTIR plus Customizable Chemometric PLS Interface (included)
Computer	External (not included)
Computer Interface	USB (cable and adapter included)
Dimensions	12" x 13" x 6"
Weight	20 lbs
Enclosure Material	Aluminum
Ambient Operating Temperature	15°C - 28°C
Maximum Relative Humidity	< 65%
Power Supply	110-240 V, 50-60 Hz
Power Consumption	< 50 W

ORDERING INFORMATION

MODEL	DESCRIPTION
LSP-T-9	Nine Reflection Diamond ATR FTIR Analyzer
LSP-C	Cover for Volatile Samples
LSP-LF	Liquid Flow Cell