



- **FULLY AUTOMATIC** STAND ALONE OPERATION
- UNMATCHED PRECISION, SPEED AND EASE OF OPERATION
- **GASOLINE & DIESEL TESTS WITH A SINGLE ANALYZER**
- DETAILED REPORT ON LARGE COLOR-TOUCH-SCREEN
- **OCTANE, CETANE, FAME, DISTILLATION & DENSITY**
- FACTORY CALIBRATED & MAINTENANCE FREE



ERASPEC

Portable mid-FTIR fuel analyzer

THE ERASPEC IS AVAILABLE

- as a multi fuel analyzer for the comprehensive spectral analysis of gasoline and diesel fuel samples
- as a single fuel analyzer for the comprehensive spectral analysis of either gasoline or diesel fuel samples

COMPREHENSIVE GASOLINE ANALYSIS IN SECONDS

15 Aromatics incl. Benzene (ASTM D 6277, EN 238)

9 Oxygenates (ASTM D 5845)

Ethers (MTBE, ETBE, TAME, etc.)

Alcohols (Methanol, Ethanol, Iso-Propanol, etc.)

Olefins & Diolefins

Xylenes

Saturates

MMT

Density

RON & MON & AKI

Distillation & Evaporation points

RVP & Driveability Index

VOC Emissions Calculator

+ 10 freely programmable parameters

COMPREHENSIVE DIESEL FUEL ANALYSIS IN SECONDS

Cetane Number in correlation to ASTM D 613

Cetane Index in correlation to ASTM D 976

Cetane Improver

Poly Nuclear Aromatics

Total Aromatics

Density

Distillation values IBP, T50, T85, T90, T95, FBP

10 freely programmable parameters

ANALYSIS OF BIODIESEL (FAME) BLENDS

Biodiesel/ FAME (fatty-acid methyl ester) in conventional Diesel fuel (EN 14078)

Range: 0 to 40 m%

PATENTED FTIR-SPECTROMETER

The innovative, patented FTIR interferometer design of ERASPEC is based on the following technical highlights:

A LASER CONTROLLED HIGH RESOLUTION MIRROR DRIVE THAT DELIVERS

- performance and reproducible results people have come to expect from high-end bench-top FTIR double-beam spectrometers
- excellent stability and insensitivity to vibrations for true portability and field operation
- maintenance-free, extremely long life operation

AN AUTOMATED MULTIPLE PATH LENGTH ABSORPTION CELL THAT ALLOWS FOR

- fully automated spectrometer calibration without the need of solvents
- detailed analysis of gasoline and diesel fuel samples with a single analyzer and without having to change the measuring cell
- measurements of additional parameters according to specific international standards (e.g. Benzene according to EN 238) with a single analyzer

FEATURES

- Fast, easy and fully automated stand-alone operation
- True portability: the rugged FTIR spectrometer cell and the light aluminum instrument housing allow for compliance testing and quality control at-line in the production, at the point of sale or directly at the engine
- Automatic sample introduction & measurement
- Highly precise results in 60 seconds
- Multiple path length absorption cell
- Laser controlled, rugged piezo-electric mirror drive
- Automatic FTIR calibration without solvents in seconds
- Built-in oscillating tube density meter
- Built-in multi-voltage auto switching power supply unit
- Easy entry and processing of data via large color touch display
- Advanced data management (Ethernet, USB, LIMS)

ERASPEC

▪ THE SPEED & EASE OF USE

make the ERASPEC the preferred analyzer for fuel compliance testing in the QC laboratory, fast at-line refining streams quality follow-up, fuel blending and research applications.

▪ PATENTED, RUGGED INTERFEROMETER

field-proven to be used also in challenging environments to identify contaminations with field tests directly at the point of sale.

▪ LATEST COMMUNICATION TECHNOLOGY

like a large color touch screen and a built-in industry-PC with Ethernet and USB interfaces allows for advanced data management by connecting modern printers, integration into LIM systems or saving results on a USB memory stick.



SPECIFICATIONS

DETECTION METHOD	mid-FTIR interferometer (patented rugged design)
CALIBRATION	factory calibrated with a matrix of several hundred international fuels
WARM-UP TIME	not required
MEASURING TIME	60 seconds
SAMPLE INTRODUCTION	directly from the sample container by an integrated pump
CLEANING	automatic rinsing with sample
FILTER	integrated 15 µ metal filter
SAMPLE VOLUME	10 ml
DISPLAY	6.5" 4-color touch-screen
COMMUNICATION LANGUAGES	English, German, Russian, Chinese, Portuguese
COMMUNICATION	4 x USB, Ethernet and RS-232 serial port
POWER REQUIREMENTS	auto switching 85-264 V AC, 47-63 Hz, 70 W
FIELD APPLICATION	12 V/8A DC (vehicle battery)
CABINET/CHASSIS	fully portable, rugged aluminum; includes carrying handle
W X H X D	220 x 320 x 280 mm
WEIGHT	8 kg

FOR ADDITIONAL INFORMATION


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