# **Specifications**

#### Function

Quantitative constituent analysis for product research measurement and/or product monitoring

## **System Capabilities**

Optional Calibrationsber Content of the American Diesel cetane index, cetane number
OutputsLCD display, built-in printer
Data Transfer Via RS-232 port for interface with PC
Data Analysissoftware
Results Traceable to CFR Engine or other fuel lab standards
Calibrationsstores up to 10 calibration sets
Data Storage

# **Optical Capabilities**

Diffuse transmittance
. 14 filters covering wavelengths from 893 to 1045 nm
.Up to 10 scans per second
.0 to 6 AU
.0.00001 AU
.0.05 Mili-AU
. Variable (Typically under 20 seconds)

## **Sample Information**

Sample Size	200mL with 75 mm path length
Sample Holder	1 8
Sample Preparation	None required
Sample Destruction	None

# **Physical Data**

Dimensions	5"W X 14"L X 4"H (12 cm X 36 cm X 11 cm)
Weight	3 lbs. (less than 2 kg)

### **Installation Data**

AC Power Requirements	120 or 240 VAC 50/60 Hz AC adapter (supplied)
DC Power Requirements	6 AA alkaline batteries (included)
·	optional 12V automobile adapter
Power Consumption	750 ma

For Analysis ...Where you need it most ...When you need it mosi™





Portable **Near-Infrared Octane/Cetane** Analyzer

**Featuring Automatic Fuel Detection:** Gasoline **Ethanol Blended Gasoline Diesel** (optional)

For Lab Accurate, On-Site Analysis of Octane and Cetane

Relter

MENU

SELECT

# 

**For Analysis** ...Where you need it most ...When you need it most™

# The Industry's Only Truly Portable, Battery Operated Octane/Cetane Analyzer

SELECT

#### **Superior Technology**

The patented ZX-101XL utilizes highly accurate and reliable near-infrared spectroscopy for analysis of octane and cetane levels in gasoline, ethanol blended gasoline (e-gas), and diesel fuel.

#### In the Field or at the Lab

The ZX-101XL has been specially designed for rugged in-the-field use, but is equally well suited for laboratory applications.

With a warm up time of less than one minute and analysis time of less than 20 seconds, the ZX-101XL allows for nearly instantaneous **analysis when you need it most**, where you need it most. It is ideal for at the pump inspections, spot checks at the pipeline, and quality control at the refinery.

#### **More Features for Improved Performance**

The ZX-101XL's Delron sense head makes it easy to firmly seat and position the sample holder in the instrument making field tests faster and smoother.

The ZX-101XL's two piece sealed optical filter tray extends the life of the optical filter and increases wave length stability.

The ZX-101XL offers Automatic Fuel Selection, enabling it to detect the type of fuel being analyzed and reducing potential operator error.

The ZX-101XL offers an optional GPS locator allowing personnel to document and verify the time and location of each analysis.

#### Who Uses Zeltex Technology?

#### **Government Inspection Agencies**

- At the pump inspections
- Over 30 states already use Zeltex Analyzers for their field inspectors
- Used in over 40 countries worldwide

#### Service Stations/Gasoline Retailers

- Make sure you're not giving octane away
- · Make sure you get what you're paying for

#### **Blending Stations**

· Ensure that your delivery vehicles are delivering the proper blends

#### **Refineries & Terminal Docks**

- · Quality control spot checks on blended fuels
- Allows for immediate adjustments

#### Military

· Quick, efficient analysis of overseas or unverified fuel supplies to maximize vehicle performance

#### **Research & Development**

• Research labs can perform complex analysis for new product development projects

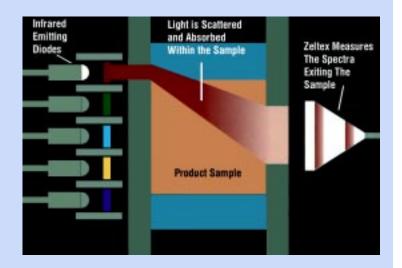
**Optional** GPS Locator

Less Than One Minute Warm Up Time!

> Results In Less Than 20 Seconds

# How It Works: Applied Science In Measurement

Light energy that enters the sample is scattered and absorbed within the sample. The ZX-101XL measures the spectra exiting the sample, and directly displays the product's constituent concentrations.



# Unique Design Features Add Versatility, Dependability and Convenience

- Automatic fuel detection (Gasoline/E-Gas/Diesel)
- Less than one minute warm up time
- Stores data for up to 25 samples
- Precalibrated for unleaded and Ethanol blended fuels
- Optional diesel cetane index and cetane number calibrations available
- Automatic temperature compensation
- Displays results in less than 20 seconds
- Self-standardizing to ensure accuracy
- Easy-loading sample holder
- Easy-to-read LCD display
- Built-in printer that includes time and date of analysis
- Optional GPS locator GPS data is printed and stored
- RS-232 port for PC interface
- Optional USB capability
- [(R+M)/2], RON, MON
- Can store up to 10 separate gasoline formula calibrations
- Small, lightweight, and easy to use
- Operates on "AA" batteries or AC Power
- Sturdy aluminum carrying case

# A Proven Track Record -Used Worldwide

Thousands of Zeltex Octane Analyzers prove themselves every day at major refineries, state laboratories, federal labs, military laboratories, government regulatory agencies, blending wholesalers and many other users worldwide.

# **Control Quality - Control Costs**

Portable octane testing allows on-the-spot control and decisions that will save money and time - **making** octane control a reality.

The ZX-101XL provides accuracy and repeatability equivalent to ASTM-approved CFR engines.

