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■ Moisture

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■ Nicotine

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■ Sugars

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# InfraLab™

## At-line Analyzers for the Tobacco Processor

The Measure of Quality™

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# At-line Measurement

## NDC & the Tobacco Industry

NDC Infrared Engineering has over 35 years experience in the design and manufacture of dedicated instruments for the tobacco industry. Our philosophy has been to combine leading edge design with the very best in applications engineering to create a fully engineered solution for every measurement.

The InfraLab family of at-line analyzers has been developed specifically to meet the exacting needs of the tobacco industry, achieving accurate measurement of the key parameters of moisture, nicotine or sugars content in a robust, rapid and operator-friendly format.

NDC has, we believe, the World's largest expert development team working exclusively on NIR measurements for the process. We strive to ensure that our measurements are the best available. But it's not just about measurement capability: we place equal emphasis on ease of use, serviceability, reliability and lowest cost of ownership.

With direct operations in Europe, China, Japan, India and the USA and fully trained distributors in over 60 countries, the industry can rely on NDC for first-class local support.

**Accurate analysis of moisture or nicotine and sugars in less than 10 seconds per sample...**

### Speed, Accuracy and Ease-of-Use

Conventional methods for determination of moisture, nicotine or sugars are time-consuming, operator-dependent and costly. The InfraLab Tobacco Analyzer provides a robust, fast alternative.

NDC's proven NIR technology is used at the heart of the InfraLab to make rapid, repeatable single or multi-component analyses in a fraction of the time taken by conventional methods.

The InfraLab concept was developed in close collaboration with the industry and is widely accepted as a replacement method for the many routine analyses made in the process and the laboratory.

The InfraLab is designed to be calibrated to the preferred laboratory oven or analytical method and is accurate to:

- Moisture 0-55%  $\pm$  0.1%
- Nicotine: 0-6%  $\pm$  0.1%
- Total Reducing Sugars: 0-30%  $\pm$  0.1%

InfraLab offers substantial benefits over the alternatives, illustrating NDC's understanding of the needs of the tobacco industry.

### MEASURABLE ADVANTAGES



- **Speed** - InfraLab completes each analysis in less than 10 seconds
- **Precision and Repeatability** - InfraLab collects over 125 complete measurements per second for maximum resolution
- **Ease of Use** - with automated sample detection and minimal sample preparation, InfraLab has no special skills requirement
- **Hygienic Design** - InfraLab is easy to keep clean and is sealed to IP63 (optionally to IP65)
- **Intuitive Interface** - the InfraLab User Software has been designed for ease of access to the data generated by the analyzer
- **Data Analysis** - the Calibration Management Software (optional) ensures the statistical validity of calibrations and the trending function enables a quick visual interpretation of process data

**InfraLab is a truly viable alternative to gravimetric, wet chemistry or CFA methods, for all three of the industry's key measurement parameters.**



# Performance combined with Ease of Use

**Fully functional in its own right, or connected to a PC running ILab Calibration Management Software**, fast access to critical data has never been easier...

## InfraLab - Two Formats, One Performance Level...

**InfraLab:** the InfraLab analyzer with touchscreen interface and clear displays is ideal for production and routine QA environments.

The intuitive interface with full user hierarchy enables the supervisor to decide which functions are available for each user, from simply having the ability to log on and make a measurement, right up to full administration rights with the ability to set up new products and change existing settings.

When its impressive on-board data storage capacity of 1,000 sample records is reached, files can be downloaded via the USB port to a PC using the NDC GaugeToolsXL software.



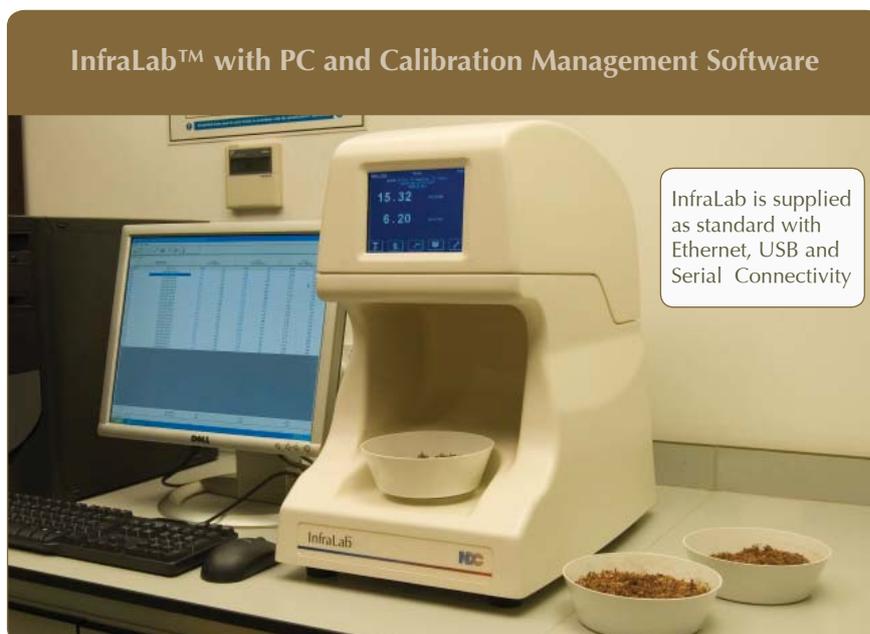
**Infralab requires no special user skills, guaranteeing fast and accurate routine sample testing**



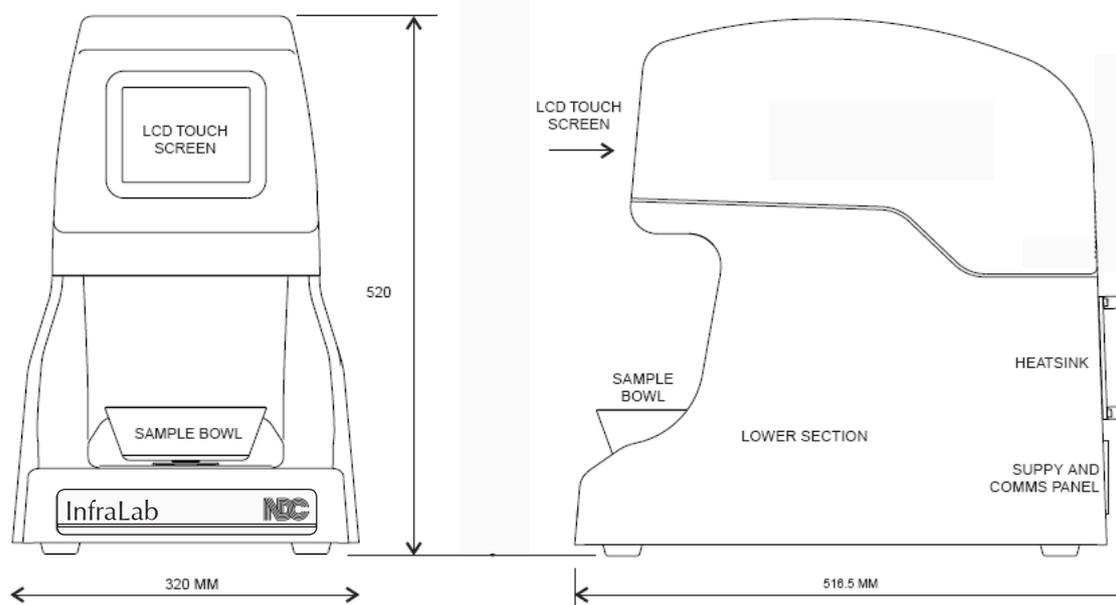
**InfraLab plus PC**, running the Calibration Management Software, creates a format with advanced data visualization and analysis capabilities.

InfraLab connects via its USB, Ethernet or Serial connection to the PC, to open up a wider range of functions and options, including managing the analyzer remotely.

With a PC, data storage capabilities are limited only by the hard-drive, enabling users to gain deeper insight into the validity of the data by tracking measurement values blend by blend over long time periods.



# Technical Specifications



## Weights and Dimensions:

Weight: 15kg (33lbs)  
 Dimensions 320 x 503 x 517 (12.6 x 19.8 x 20.4in)  
 Standard Sample Bowl: 140mm diameter x 50mm deep (5.5 x 2 in)  
 Smaller Capacity Bowl: 140mm diameter x 13mm deep (5.5 x 0.5 in)

## Sampling:

Measurement Time: Configurable 2-10 secs  
 Automatic Sample Detection: Configurable off/on

## Environment:

Environmental Rating: IP63 (IP65 optional [NEMA 4])  
 Operating Temperature: 0-40°C  
 Operating Humidity: up to 90% non-condensing over the operating temperature range

## Power:

Power Supply: 85 to 264V RMS AC 45-66Hz  
 Consumption: 42W

## CE Compliance:

EN61326 (2001) EMC & EN61010-1 (1993) LVD

## Connectivity:

Serial RS232/485, Ethernet TCP IP, USB2

## User Software Features: (without PC)

- User log-in and access permissions settings
- Product calibration management
- Data storage: 1,000 sample values (up to 3 components each)
- Data Export: to PC via USB using NDC GaugeToolsXL s/w

NDC Infrared Engineering is represented in over 60 countries worldwide

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