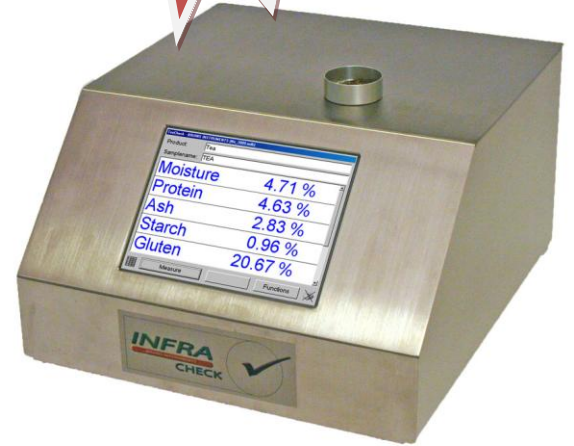




The InfraCheck™ is a compact, cost effective NIR reflectance instrument with unsurpassed performance. This full featured analyzer features a color touch screen interface, and an easy to use top mounted sample cup. Simply fill the cut with the powder, paste, or gel and in about 30 seconds your sample is measured and the results are displayed. The ability to accept MLR calibrations from older filter based instruments from Perten, DICKEY-john, Bran+Luebbe and others make it an ideal replacement or upgrade without the need for creating a new calibration. Or dramatically improve your measurement precision and accuracy by creating statistically sound and robust PLS calibration methods. The InfraCheck is also ideal for the rapid screening of incoming materials by utilizing the powerful built-in discriminate analysis software.



### Typical Applications

Flour, tea, pastes, gels and most homogenous substances...

Our calibration services can develop calibrations for almost any significant component or property for your particular product.

### Key Features

- Simple top mounted sample cup, just fill and place to measure
- Light weight and low power consumption makes this instrument very trans-portable
- Fully transferable calibrations between instruments
- Double beam operation for highly reproducible results and more robust calibrations
- Large wavelength range allows for the accurate analysis of a large ranges of products

### Specifications

Dimensions: 345 X 384 X 215 mm (16.6 X 15.25 X 8.5 inches)

Weight: 16kg (26 lbs.)

Wavelength range : Standard: 1100-2500 nm • .5 nm scan increment

Sample Presentation: top loading reflectance

## Common Features to All Bruins Instruments NIR Analyzers

### ***Key Instrument Features***

***Fully Transferable Calibrations*** – Bruins NIR analyzers are the only scanning instruments in the world where product calibrations can be transferred between ALL instruments without any adjustment of the calibrations or the instrument. The unsurpassed instrument linearity negates the use of non-linear calibrations, such as ANN, and instead can utilize robust statistically based calibrations such as PLS.

***Research Grade Precision*** – The Bruins monochromator has been developed and refined over 30 years with over 10,000 units delivered. They are used in some of the most demanding applications such as the measurement of optical laser filters, standards measurements, and military applications for quality control.

***Industrial Grade reliability*** – Utilizing a single moving part, excluding the sampling systems, Bruins NIR analyzers are known to run reliably and accurately for years without any adjustments at all utilizing the original calibrations!

***Double Beam operation*** – All Bruins Analyzers use a single channel, double beam mode of measurement that insures the highest precision. This is the same technique used on many research grade spectrophotometers. Double beam measurements always reference the sample measurement against an open beam measurement to eliminate the effects of drift due to environmental conditions or short and long term instrument variation.

### ***Instrument Software***

***Omega Predict Software*** – Uses a high resolution color touch screen to guide the user through the simple process of running the measurements. All data from each measurement, including the full spectrum is logged into the Predict database. Password controlled administrative functions allow tailoring the menu to the exact level of operability for the user as well as configuring products and calibrations. Results and spectra are easily exported to a local network or USB device.

Omega Predict utilizes the industry standard GRAMS PLSplus/IQ multivariate analysis software for generating calibrations for virtually any product. Unlike some NIR analyzers, calibrations are based on sound statistical models that not only provide fully transferable calibrations, but can also reliably indicate bad samples or instrumental problems and can virtually eliminate incorrect or misleading results.

Omega Predict can also utilize calibrations developed on older filter based instruments using MLR which can easily be transferred to any Bruins NIR analyzer to get you up and running fast, without costly recalibration.

***Omega-Pro analysis software*** - is a full-featured spectroscopy software available on the research grade InfraScan instrument.

***Communications*** – Remote control and networking software included.

### ***Instrument hardware***

Integrated PC board with network and USB connectors. Solid state Industrial grade 2GB bootable flash memory drive for program and data storage. Optional external mouse/keyboard/monitor.