Спектрометр Фурье

Analect-Diamond-MX

Технические характеристики

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
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Казань (843)206-01-48
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Кемерово (3842)65-04-62
Киров (8332)68-02-04
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Единый адрес для всех регионов: ati@nt-rt.ru || www.ait.nt-rt.ru

AIT Applied Instrument Technologies

Diamond MX™

FT-NIR Analyzer

The ***Analect™ Diamond MX™*** *FT-NIR process analyzer is configured for rackmount or benchtop applications. It provides rapid, accurate and stable real-time monitoring of physical properties and chemical composition of liquids, solids and gases, all from one instrument.*

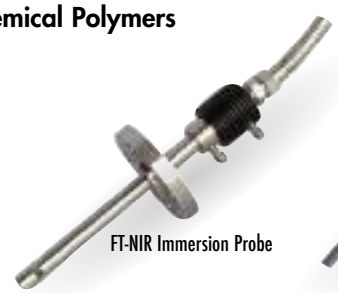
- Nine different sampling devices can be used with the same Diamond MX system.
- Unique to the Diamond MX system, the entire beam is switched from channel to channel, enhancing energy throughput and channel-to-channel precision.
- Fiber-optic sampling also allows the Diamond MX system to be placed remotely in any general purpose area.
- The heart of the Analyzer is the rugged Diamond 20™ Transept™ interferometer featuring superior analytical stability and accuracy.
- The system uses the same powerful SpectraRTS™ process software found in the Analect series of on-line and process development FTIR and FT-NIR analyzers.
- Full chemometric modeling capability including SpectraQuant,™ Unscrambler®, MATLAB® and Pirouette®.
- Seamless transfer of calibration between all Analect analyzers.
- The Diamond MX's system versatility is demonstrated by its range of applications for raw material QC, on-line and in-situ process monitoring and final product inspection in these industries:

Hydrocarbon Processing
Pharmaceutical
Specialty Chemical
Food & beverage
Chemical Polymers

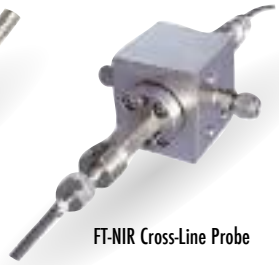
AIT Worldwide
Leader in Process Analytics

MX Sampling Options

- Immersion Probe
- Cross-line Probe
- ReflectIR Diffuse Reflectance
- Hand Held Diffuse Reflectance Probes
- Transmission Cells
- Gas Cells



FT-NIR Immersion Probe



FT-NIR Cross-Line Probe

Specifications

Spectrometer	
Interferometer:	
• Transept IV™ hermetically sealed module with refractively scanned design	
• Optical range 12,000 - 1200 cm^{-1}	
• Detector options: InGAs, InAs	
Ambient Environmental Conditions	
• Temperature Range:	10-30°C (68-86°F)
• Relative Humidity Range (RH):	95%, non-condensing
• Electrical Area Classification:	General Purpose
Utility Information	
• AC Power voltage:	115/230 Vac ± 10%
• AC power freq:	50/60 Hz ± 1 Hz
• AC power usage:	300 watts

Options

- Internal or external source
- Multiple probe channels using 9-channel fiber-optic multiplexer
- Background and/or reference channel
- FC fiber connectors (SMA standard), ST option
- Multiple detector options
- Remote R_X diagnostics
- Desktop or Rackmount analyzer versions; includes Windows-based data station and software

Analect Lab to On-Line – The Analect **Diamond 20** FT-NIR analyzer is used for calibration and data collection in support of the **Diamond MX**™ process analyzer. Calibrations can be seamlessly transferred between all Analect FT-NIR analyzers.

Analect Diamond 20™

Experience – Our staff of applications experts provide feasibility and calibration services that set the worldwide standard. We also provide the systems integration, commissioning and post-installation support to ensure your success.

SpectraRTS™ Software Drives Your Application

Automate many aspects of your process

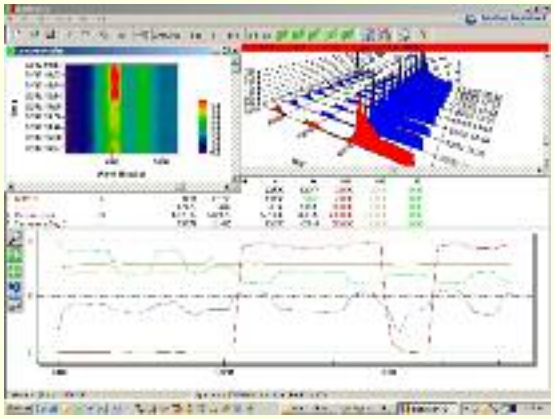
- Control I/O to switch valves and monitor a variety of sample system conditions
- Collect spectra and apply quantitative analysis routines
- Transmit product properties, instrument QC data, and alarms via versatile communications protocols

Implement calibration tools and programming flexibility

- Apply a wide variety of quantitative analysis routines including: SpectraQuant,™ MATLAB® and Pirouette®
- Utilizes Visual Basic for Applications (VBA) compatible scripting language to achieve total programming flexibility
- Operate the system remotely by using pcANYWHERE™ or Timbuktu® software
- Multi-level password access

Validate and diagnose your system

- Implement on-line validation methods,such as ASTM D6122
- Automatically monitor and trend the system's "health" with Remote R_X™ software preventative maintenance scheduling
- Access the on-line help system for quick reference



3D Spectral Display contour plots with property trendlines

CE

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