

Process Analyzers. Fast. Rugged. Reliable.

AIT

Applied Instrument Technologies

Since being acquired in October 2016, AIT is proud to be **Applied Instrument Technologies**
by Schneider Electric

ABOUT US

- **Applied Instrument Technologies** products deliver important physical & chemical compositional measurements to the process industry in order to reduce costs, improve quality & meet regulatory requirements. AIT's broad technology base includes FTIR, FT-NIR, NIR, Mass Spectrometry, Gas Chromatography, and Raman Spectrometry which allows us to offer customers a choice of solutions. With process development and on-line systems, AIT is able to provide both applications development support and real-time monitoring of batch and continuous processes.
- We serve the hydrocarbon processing, chemical, biotech/pharmaceutical, steel, natural gas, as well as other manufacturing industries. We are a world leader in providing real-time analysis of fuels blending.
- Our products provide multi-component and multi-stream analysis creating a strong value proposition to reduce costs through on-line analysis. Continuous analysis provides the data to meet product specification at least cost.
- AIT products are for general purpose use and are certified for hazardous area operation around the world.
- We deliver turnkey solutions by engineering and manufacturing sample conditioning systems and analyzer skids matching sample requirements to the analyzer.
- Our policy of non-obsolescence translates to readily available electronic and software updates to your analyzers.
- AIT has been marketing process analytical instruments worldwide from its headquarters in California since 1996 and is ISO 9001:2008 certified.

ANALECT® FTIR/NIR • PIONIR® NIR • RPM® Raman Systems • FXI® Process GC • MGA™ Mass Spectrometry

ANALECT® FTIR

> Using a broad spectral region from the near-infrared to the mid-infrared, the ANALECT series of FTIR/FT-NIR analyzers measure physical & chemical properties of liquids, solids & gases. The process proven ANALECT Transept™ Interferometer provides superior performance for complex refinery applications such as fuels blending and component streams applications for polymers, petrochemicals, chemicals, pharmaceuticals in addition to general manufacturing.

Customers Include ADNOC, Agip, Dow Chemical, Dow Corning, DuPont, ExxonMobil, Gazpromneft, Hemlock Semiconductor, OMV, Sadara, Saudi Aramco and Valero.



SpectraSuite™ takes you from lab to on-line, providing real-time process analysis, model development, validation routines & environmental reporting all in one reliable and stable suite of software.

Hydrocarbon SmartSystem®
On-line, real-time FTIR monitoring of refinery and petrochemical process streams in hazardous areas.



ANALECT RefiniR™
Fully integrated laboratory autosampler and FTIR instrument designed to analyze heavy and light hydrocarbons including crude oil and gasoline.



ANALECT EVM™
Provides round-the-clock multi-point continuous air monitoring for a variety of applications.



ANALECT PCM 1000 & 5000™
FTIR & FT-NIR process analyzers for gases, liquids & solids designed in custom configurations.



ANALECT Diamond MX™
Rackmount
Analyzer designed for rackmount FT-NIR fiber optic based application.





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PIONIR® Dispersive Near Infrared

> The PIONIR series NIR analyzers are designed for operation in process development as well as rugged, on-line environments utilizing patented and licensed BP Amoco technology. PIONIR systems provide real-time, multi-point analysis of refinery process streams such as gasoline and diesel fuel. Applications include RON, MON, distillation points, aromatics, olefins and cetane number.

Customers include ADNOC, BP, CITGO, CPCL, Gazpromneft, HPCL, IOCL, Orpic, Phillips 66, Rompetrol, Statoil, PBF Energy and Tesoro.



SpectraSuite™ takes you from lab to on-line, providing real-time process analysis, model development, validation routines & environmental reporting all in one reliable and stable suite of software.

PIONIR 1024X™

Multi-channel on-line analyzer designed for operation in hazardous areas.



PIONIR MVP+™

Support for process development, the MVP+ utilizes the same optical bench as the 1024. Also available in a process rackmount configuration.



PIONIR Probe

Unique dual-channel design provides a background with every sample run. It allows for industry leading stability.



Validation Skid

Compliant to ASTM D6122: Standard practices for validation of performance of on-line analyzers.



Life Is On

Schneider
Electric

RPM[®] Laser Raman Systems

- > The RPM View is a Patented Raman Photometer designed for real-time concentration measurement and analysis of multiple analytes in either liquid or gas phase process streams.
- > The RPM View analyzer is compact and can be configured to perform continuous chemical composition analysis of up to eight components.
- > The RPM View directly couples onto a process resulting in high sensitivity measurements through a process view interface cell.
- > The RPM 785 is a multi-channel ccd-based analyzer designed for multiplexing fiber-optic probes and cells.



SpectraSuite[™] takes you from lab to on-line, providing real-time process analysis, model development, validation routines & environmental reporting all in one reliable and stable suite of software.

RPM 785[™]

Multi-channel CCD-based Raman analyzer designed for real-time process development monitoring.



RPM 785 Probe

Custom Raman analyzer in-situ and extractive probes are available.



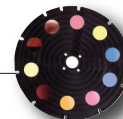
RPM View[™]

Raman Photometer delivers real-time analysis of liquid or gas phase process streams.



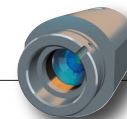
RPM Photometer Wheel

Filter wheel allows analysis of up to eight process components.



RPM Interface Cell

High sensitivity Raman cell can be configured for liquid or gas phase applications.



FXI[®] Process Gas Chromatography

> The FXI process gas chromatograph continuously analyzes and reports individual component concentrations of gas or liquid process streams. Typical applications include BTU, hydrocarbon dew point, H₂S and total sulfur analysis in natural gas, speciation of hydrocarbon isomers, analysis of aromatic compounds, ambient air, analysis of hydrocarbons, high purity analysis at ppb levels and wastewater analysis.

Customers include BASF, Brunei LNG, Formosa Plastics, Goodyear, Huntsman, J&J Ethicon, Malaysia LNG, Petrovietnam, Sabic and Saudi Aramco.

FXI Series 5[™]

Blends LAMS software with a color touchscreen user interface that upgrades the Foxboro[®] 931 GCs.



FXI Series 7[™]

Next generation process gas chromatograph developed by AIT from a heritage of highly reliable process GCs. The FXI Series 7 blends an all new state-of-the-art HMI software and modular electronics platform with field-proven, robust chromatography architecture. New enhancements to the platform feature ChromFX[™] software, parallel chromatography, multiple-oven and (EPR) Electronic Pressure Regulation capabilities.



ChromFX[™] AIT's new software platform simplifies user setup and operational functions through an intuitive easy to navigate menu-selectable interface. The software is built with advanced process control communication interface.





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MGA™ Process Mass Spectrometry

> The MGA series of Multiple Gas Analyzers utilize proprietary magnetic sector technology to provide rapid, accurate and stable real-time monitoring of multi-component gas streams. Typical process monitoring applications include ambient air, ammonia, ethylene oxide, fermentation, fuel cell analysis, high purity gas analysis, leak detection, blast furnace and coke oven top gas.

Customers include AbbVie, ArcelorMittal Steel, BASF, BOC Gases, Delphi Automotive, DuPont, Eli Lilly, GE, Merck, NASA, Nippon Sumitomo Steel, Pfizer, Scientific Design, Solazyme and U.S. Steel.

MGA 1200EC™

Fixed magnetic sector;
less than 1 second time
with mid-ppm to % level
analysis of up to 15
components.



MGA iSCAN™

Double-focusing, mag-
netic scanning analyzer
measures up to 40 com-
ponents from low ppb
to 100%.



MGA 1200™ Upgrade -

Turbomolecular Pump
Replaces ion pump to
increase reliability and
provide fast pumpdown.



MGA Sample System

Turnkey sample condi-
tioning systems and
multipoint stream
switching



Prime

for MGA 1200EC

Windows® based software
used by the MGA analyzer
for process monitoring and
reporting of multi-compo-
nent gas streams.

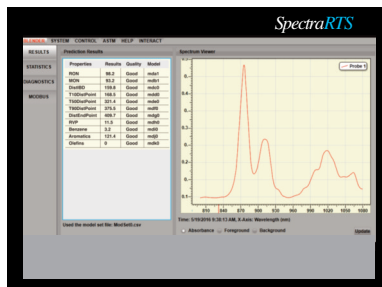
Cypress

for MGA iSCAN

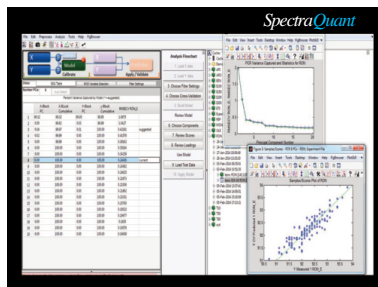
Life Is On

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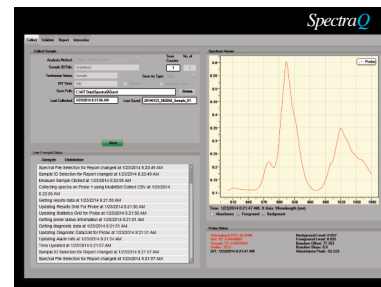
AIT's powerful software package takes you from routine laboratory use to on-line, providing real-time process analysis, model development, validation routines & advanced process control interface; all in one reliable and stable suite of software. It is designed to be deployed across the ANALECT®, PIONIR® and RPM® products.



SpectraRTS™ is leading edge Windows® based software utilized with analyzers for process monitoring, analysis and control. It provides sample system control & DCS communications.



SpectraQuant™ is advanced Windows® based chemometric software utilizing spectroscopic models to deliver predictions.



SpectraQ™ enables the effective use of AIT's instruments & sampling accessories for routine laboratory analysis and instrument validation.



SpectraEVM™ gives you an environmental reporting package allowing continuous reporting of up to 99 streams for use in a CEMS or other ambient air monitoring applications.

SpectraStudio™ provides a Windows® based data collection and analysis program designed to provide a high degree of flexibility to users operating in lab environments.

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