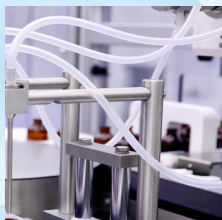




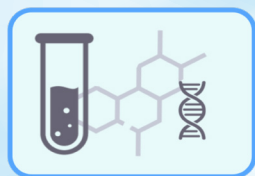
Solutions for Operating an A-TEEM™ Spectrometer in a GMP Environment

ELEMENTAL ANALYSIS
FLUORESCENCE
GRATINGS & OEM SPECTROMETERS
OPTICAL COMPONENTS
CUSTOM SOLUTIONS
PARTICLE CHARACTERIZATION
RAMAN / AFM-RAMAN / TERS
SPECTROSCOPIC ELLIPSOMETRY
SPR IMAGING



- A-TEEM
- EzPAT
- A-TEEM Direktor
- IQ/OQ Validation

HORIBA's new A-TEEM Compliance Package provides solutions for record-keeping, method validation, and instrument verification to meet regulatory requirements.



METHOD VALIDATION



RECORD KEEPING



INSTRUMENT VERIFICATION

How can the Compliance Package help use A-TEEM in a GMP Lab?



• **IQ/OQ Validation** documentation and qualification following US Pharmacopeia test methods and acceptance criteria ensuring your data is reliable, reproducible, and meets expected performance requirements.

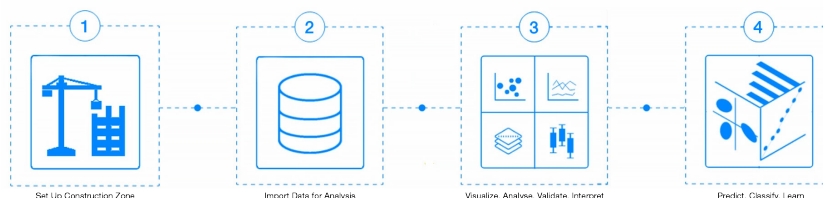


• **EzPAT OPC UA Server** is available to make Aqualog connectivity and control available from PAT Enterprise Software packages. OPC UA protocols and PAT Enterprise software packages handle user login authentication, data integrity, and electronic records keeping as required by US FDA 21 CFR Part 11 and similar regulatory requirements globally.

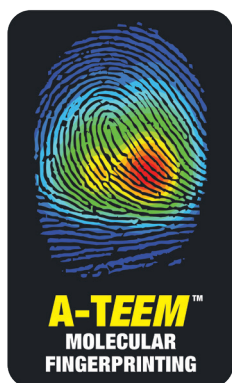


• **A-TEEM Direktor Multivariate Analysis Software** is a new MVA software designed specifically for A-TEEM multidimensional spectral data and includes user login authentication functionality and complete audit trail capability for GMP compliance needs. And it is easy to understand too.

A-TEEM DIREKTOR Workflow



A-TEEM is faster, more sensitive, and has lower detection limits than current PAT spectroscopic solutions



Get precise analysis of complex mixtures with A-TEEM: The spectroscopic tool for speed, sensitivity, and low detection limits. And now with this new compliance package, A-TEEM is a spectroscopic solution that can be used to identify low level components in complex mixtures or identify contaminants and out of spec product and offers end-to-end coverage for a GMP environment.

A-TEEM™ Molecular Fingerprinting is a new optical technique that is ideal for comprehensive component analysis in a variety of QC/QA applications, particularly, pharmaceuticals. It is a simple, fast, “column free” spectroscopic technique that simultaneously measures the absorbance, transmission and fluorescence of samples in solution, and is faster and easier to operate than traditional analytical techniques, such as chromatography, mass spec, IR, etc.

An A-TEEM spectrometer:

- Compact optical spectrometer based on simultaneous Absorbance-Transmission fluorescence Excitation Emission Matrix (A-TEEM) spectroscopy.
- Captures a full emission spectrum at every excitation wavelength while simultaneously collecting the absorbance spectrum.
- Automatically corrects for inner-filter effects to ensure that your data has truly accurate fluorescence fingerprints.
- Provides inter- and intra-lab comparability with NIST-traceable corrected spectra.



For more information use the QR code above or
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