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WITec Microscopes

apyron
automated Raman-AFM

alpha300 Raman-AFM-SNOM

alpha300 Raman-AFM

alpha300 *access*

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Integrated Raman Spectral
Database Management

WITec TrueMatch

www.witec.de

WITec TrueMatch

Easy Access, Quick Search, Positive Identification

TrueMatch is a powerful and innovative software component for accessing and developing Raman spectral databases. With this technology, existing databases containing representative Raman spectra of common materials or substrates can be searched and used to identify the contents of a sample. It also allows users to create their own catalog of spectra pertinent to their research.

TrueMatch is fully integrated with the WITec Suite FIVE software environment and is a perfect complement to WITec's data evaluation and post-processing components.

Multi-spectral searches enable the user to identify several spectra simultaneously, using databases to return hit rates that describe the probability of a match for each individual spectrum.

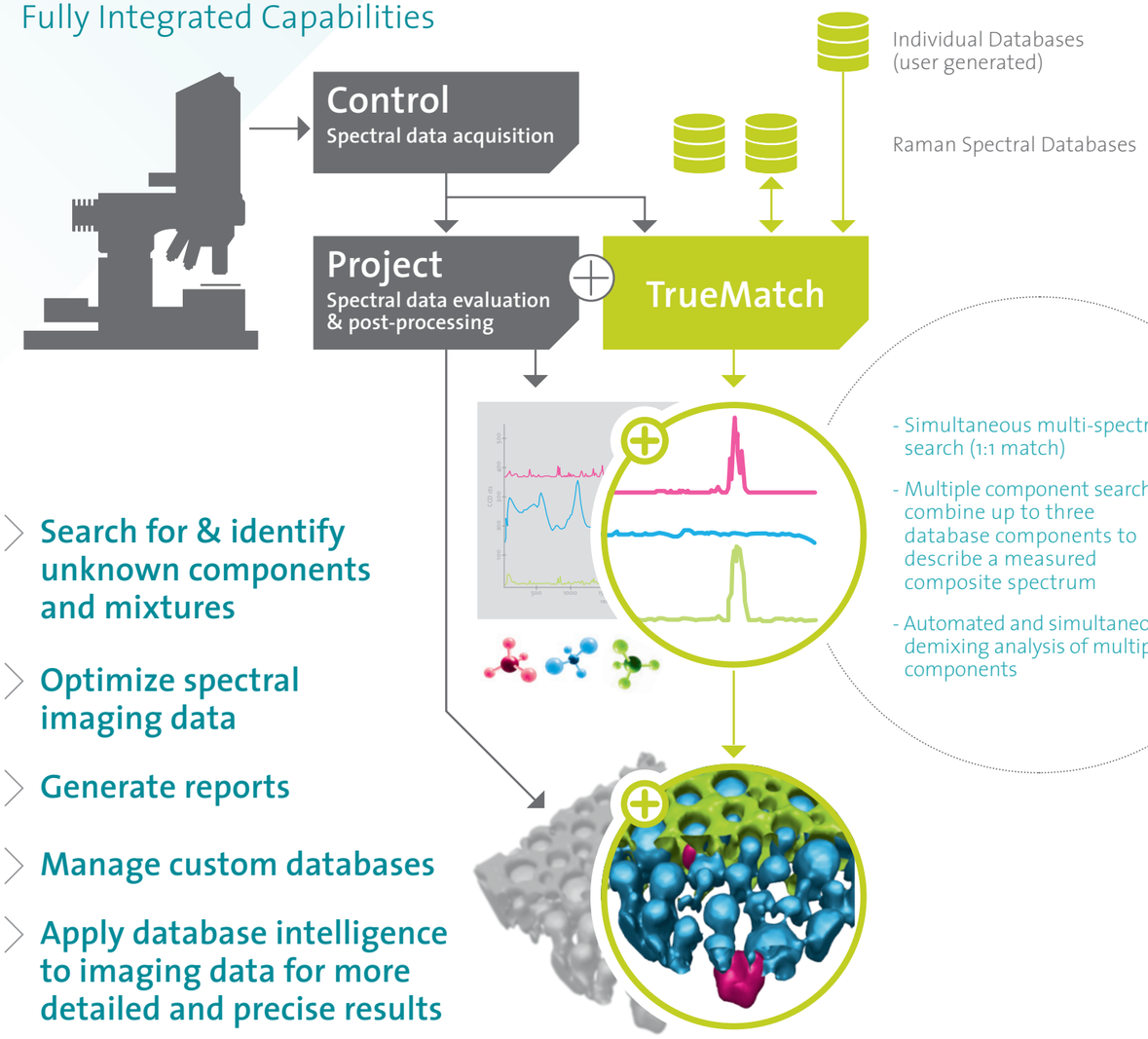
Demix search uses databases to describe acquired spectra in terms of pure substances, which can then be physically located in an image.

Seeing the distribution of pure chemical components matched to sample features gives the researcher a precise visualization verified by established databases.

Generated reports can be stored for further use in subsequent measurements, which turns meaningful results into a valuable resource.

In addition to the proprietary WITec Raman database capability included with TrueMatch, compatible versions of ST Japan's wide range of databases are available. Extensive libraries of Raman spectra can be referenced while creating your own, all from within WITec's fully-integrated software and hardware environment.

Fully Integrated Capabilities

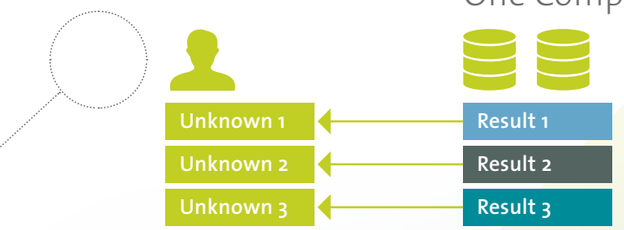


- Search for & identify unknown components and mixtures
- Optimize spectral imaging data
- Generate reports
- Manage custom databases
- Apply database intelligence to imaging data for more detailed and precise results

- Simultaneous multi-spectra search (1:1 match)
- Multiple component search: combine up to three database components to describe a measured composite spectrum
- Automated and simultaneous demixing analysis of multiple components

Database Search

One Component Search



Two/Three Component Search

Demix Search