

Product Note S46-02/22

Spectral Libraries for BRAVO



Bruker offers various spectral libraries which can be used for quick identification or verification of materials on-board of Bruker's handheld Raman spectrometer BRAVO. Thousands of Raman spectra can be used for spectra comparison and advanced data analysis.

The spectra are available in comprehensive bundles or with an application-specific focus, such as

- Pharma
 - Illicit drugs
 - Art & Restoration
- and many more...

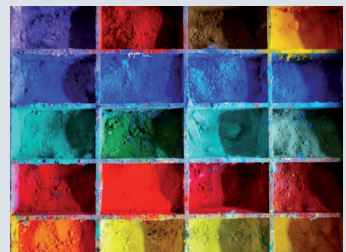
Pharma



Illicit Drugs



Art & Restoration



Next to the on-board use with the handheld Raman spectrometer BRAVO, in parallel, the spectral databases can be employed in the spectroscopy software suite OPUS. The OPUS/SEARCH module already comprised in the standard scope of delivery for the BRAVO contains extensive library searching functions, including peak and correlation-based search algorithms, mixture analysis, residual search, ...

Of course, user libraries can be as well setup via an intuitive workflow.

Library (Price List No.)	Description	Entries
Raman spectra database of APIs (1865113)	Raman spectra database of APIs (active pharmaceutical ingredients). High quality Raman spectra of APIs. The APIs are traceable and have been checked against additional experimental techniques.	> 1,950
TICTAC Raman Drug Library (BB-TICTAC)	Raman spectra database for the identification of illicit drugs. Includes new drugs, NPS, legal highs, traditional drugs of abuse, cutting agents, Substances included in the library are acquired, referenced and recorded using BRAVO by TICTAC Communications Ltd. The library is constantly expanded by new drugs entering the market. Updated versions of the library are typically released once per year.	> 573
Art Library for BRAVO (BBART-1)	Raman spectra database for arts analysis. Includes spectra of common pigments, binders, waxes, resins. The spectra are arranged in sub-sets according to material class for most convenient use.	> 180
BRUKER/MERCK FT-Raman Library of organic compounds (1893305)	Raman database of organic compounds established in collaboration with MERCK. The library includes most comprehensive meta data, as well as a classification index.	3,662
BRUKER/MERCK FT-Raman Library of inorganic compounds (1893306)	Raman database of inorganic compounds established in collaboration with MERCK. The library includes most comprehensive meta data, as well as a classification index.	353
Library of liquid spectra for BRAVO (BBLIQ)	Small starter library of liquids (standard laboratory chemicals).	50
Library of solid spectra for BRAVO (BBSOL)	Small starter library of solids (standard laboratory chemicals).	77
Raman Complete Database (1869428)	Most comprehensive collection of Raman spectra.	> 15,700
Raman Forensic Database (1869429)	Raman spectra of compounds commonly of interest in forensic laboratories.	> 1,600
Raman Hazardous Compounds Database (1869430)	Raman spectra library of hazardous compounds.	> 3,800
Raman Toxic Compounds Database (1869432)	Raman spectra library of toxic compounds.	> 1,800