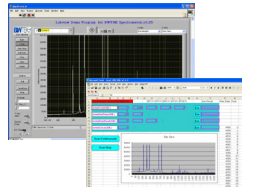
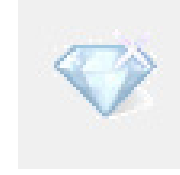
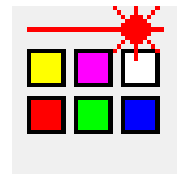
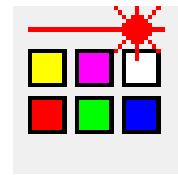


B&W Tek Instrument and Analysis Software

A Full Suite of Software Packages Delivering the Solution You Need



	General Spectral Software	Application-Specific Software				Chemometrics	Open System
	BWSpec®	BWID®	BWID®-Pharma	GemID™	BWAnalyst™	BWIQ®	Software Development Kit
Capabilities	-General instrument control software for spectral data collection and manipulation -Spectroscopic analysis including peak analysis, preprocessing and trending	-One click material identification via user-created or commercial spectral libraries	-21 CFR Part 11 compliant material identification via user-created or commercial spectral libraries	-Integrated data collection and ID software with Raman spectral library and images of >450 gemstones	-Dedicated 21 CFR Part 11 compliant operation and quantitative prediction software for the QTRam® -Easy workflow for data acquisition and quantitative method building with models from BWIQ	-Comprehensive multivariate analysis software for analysis of spectral data including exploratory, qualitative analysis and quantitative regression methods	-Custom spectroscopic instrumentation software development kit for laser and spectrometer control, data acquisition, calibration, and module synchronization
Features	-Data acquisition and image capture with microscope -Spectral math, baseline correction, smoothing -Calculations for peak height, area, ratio -Trending of direct and derived measurements -Performance tests -Relative intensity correction	-“Match vs. No Match” and “Pass vs. Fail” results -Configurable results reports -Diagnostic tests and reporting	-3 user levels -E-signature -Data traceability -Library entry signing -Automatically generated audit trail	-Gemstone library with the commercial name, picture, & country of origin - Included in GemRam instrument package	-Method validation -Quantitative prediction -E-signature -Report generation	-Chemometric methods for classification and regression including PLS, PCA, PLS-DA and SVM algorithms for non-linear datasets. -Preprocessing algorithms, including smoothing, derivatives, and normalization -Extensive graphics for model interpretation. -Outlier detection using Y-residuals, Q-residuals, M-distance	-Detailed function calls to DLLs for all B&W Tek laser, spectrometers and systems -USB and RS232 interfaces -User manual and programming examples in many programming languages
Applications	-Dedicated workspaces for Raman and for UV/Vis/NIR spectral analysis - Color testing - Spectral irradiance analysis - UV/Vis/NIR transmittance, reflectance & absorbance spectroscopy - Fluorescence measurement	-General purpose material identification with Raman instrumentation	-Material identification with Raman spectroscopy in regulated environments such as pharmaceuticals, nutraceuticals, and cosmetics	-Material identification with Raman spectroscopy for gemology, archeology, and mineral analysis	-Quantitative prediction of content uniformity and blend uniformity by transmission Raman	-Chemometric model building from spectroscopic data -Online use with i-Raman® series instruments for real-time prediction -Portability of model files for prediction in BWAnalyst software	-Spectroscopic-based applications with custom features