B&W TEK INC.
Your Photonics Partner

SPECTROMETERS | LASERS | TOTAL SOLUTIONS

Raman System

GemRam™

Raman Gemstone Identification System

The GemRam™ is a lightweight, portable Raman spectrometer dedicated to both the verification of known gemstones as well as the identification of unknown gemstones. It comes equipped with B&W Tek's GemID™ identification software, powered by GemExpert's spectral library of nearly 300 different gemstones, as well as unlimited space for user defined spectra that can be added at any time.

The GemRam utilizes a spectrum stabilized 785nm diode laser and high resolution TE cooled spectrometer to provide unrivaled performance and repeatability. It comes complete with a fiber optic probe, X-Y-Z positioning stage, and netbook computer with pre-loaded software, all in a convenient carrying case.

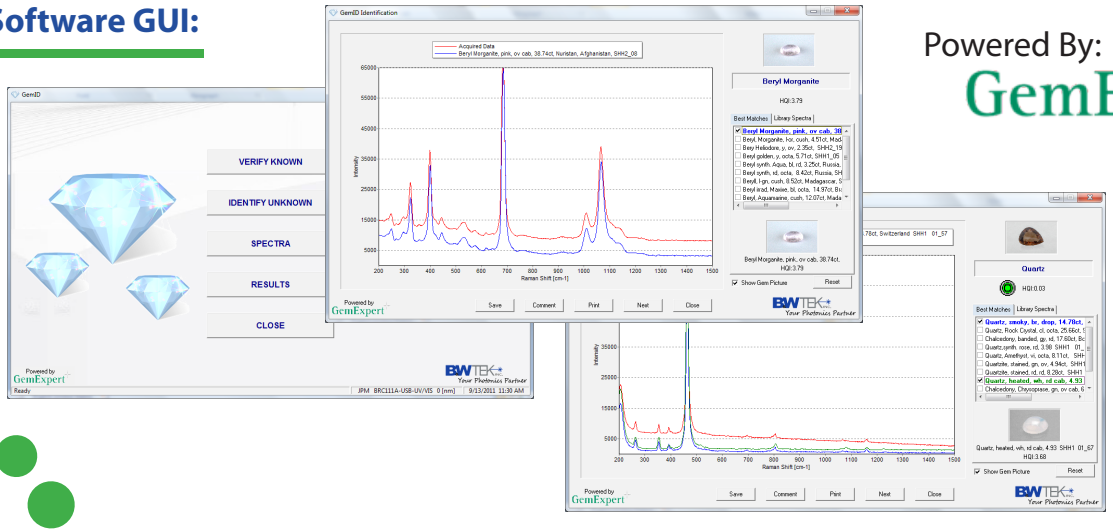
About GemExpert:

Professor H.A. Hänni and Professor Johannes Hunziker are world class authorities on gemology. Hänni and Hunziker are founders of GemExpert GmbH.

Specifications:

Laser Power	Spectrometer Range	Spectrometer Resolution	Computer Interface	Power
785nm, < 300mW	175cm^{-1} - 2700cm^{-1}	~ 3.5cm^{-1} @ 912nm	USB 2.0 / 1.1	5V DC @ 8 Amps Battery Optional
Dimensions	**Weight**	**Operating Temperature**	**Storage Temperature**	**Humidity**
6.7 x 13.4 x 9.2in (17 x 34 x 23.4cm)	~6.6 lbs (~3 kg)	10°C - 35°C	-10°C - 60°C	10% - 85%

GemID Software GUI:



Powered By:
GemExpert

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