GemID - GemRam Quick Start Guide

Computer Requirements

LCD display resolution: 1024 x 640 pixels or higher
Screen size: 11.6" or bigger
System memory: minimum 2 GB
Disk drive: minimum 320 GB
Processor speed: minimum 1.6 GHz
USB interfaces: 2
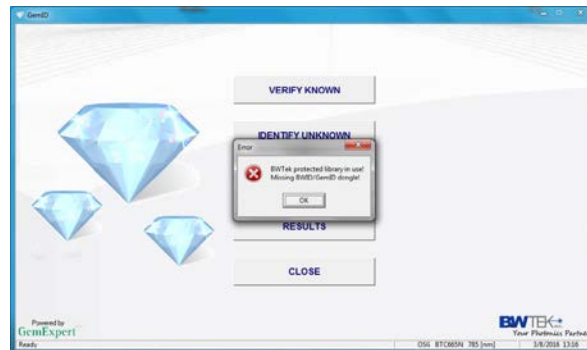Operating Systems: Windows XP, Vista , 7, 8 or 10

Installation

Setup GemRam and accessories, make sure the unit is connected and laser turned on.
In order to install the software, you must have administrative privileges on your computer.
Run the Setup.exe file and follow the on-screen instructions.

CAUTION: DO NOT PULL OR BEND THE FIBER PROBE TOO HARD,
IT MIGHT DISCONNECT OR DAMAGE THE FIBER CONNECTION.

Dongle for GemID

Prior to opening the GemID software, make sure that the dongle for protected library is plugged
in. Otherwise an error message will appear when you open the GemID software.
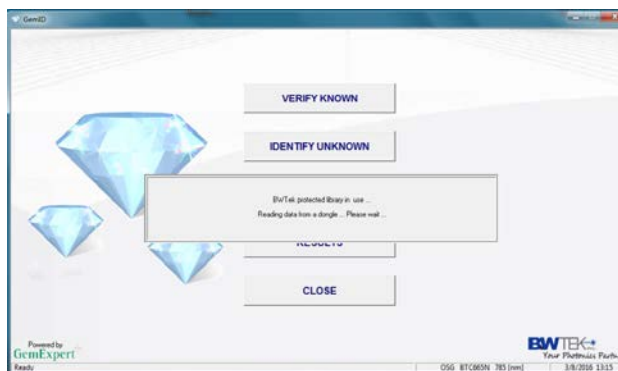
Starting the GemID Program

Figure 1

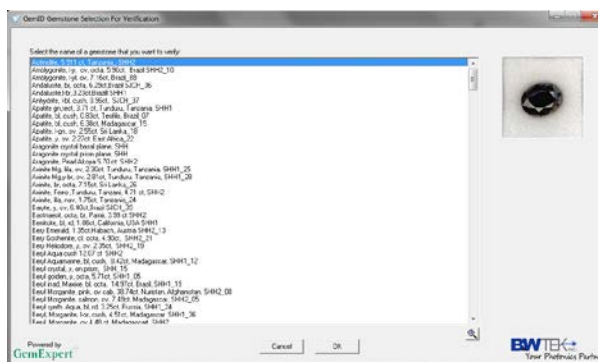**VERIFY KNOWN** – verify the identity of a known gemstone or mineral.

Figure 2

1. Select a gemstone item which you want to verify from the list and click "OK", see Figure 3

2. Make sure the Video Camera option is checked

3. Select Video tab on the top right window
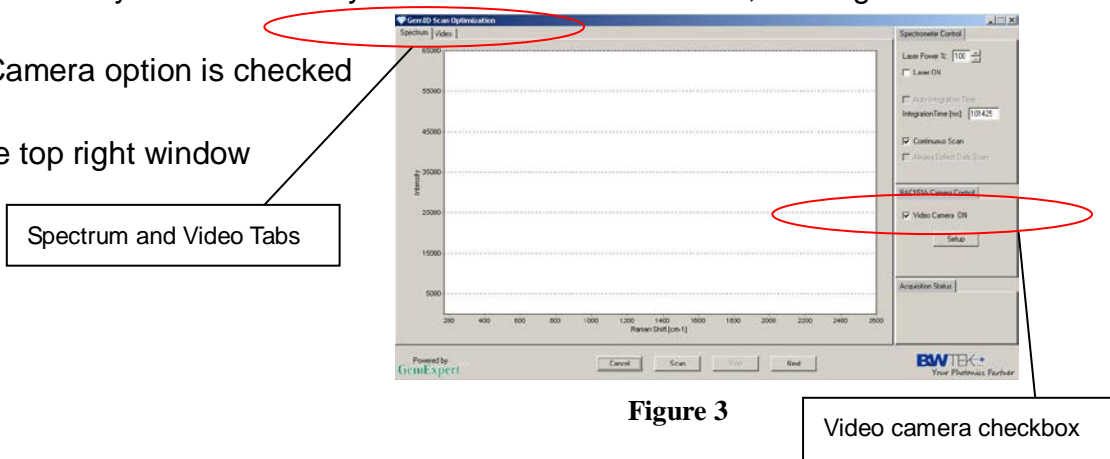

Spectrum and Video Tabs

Figure 3

Video camera checkbox

4. Adjust the stage in XYZ directions to make sure the laser is focused on the correct position of your sample, see Figure 4
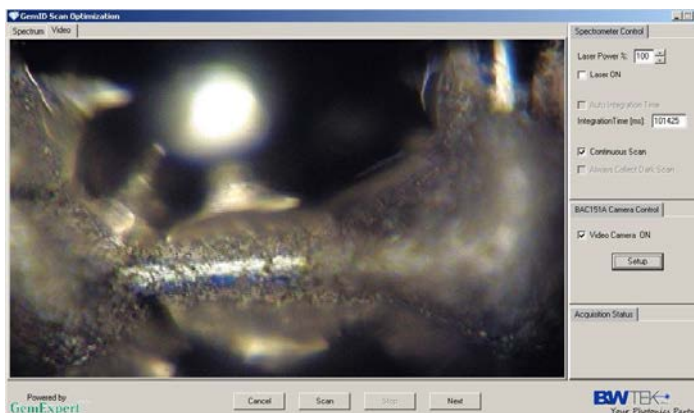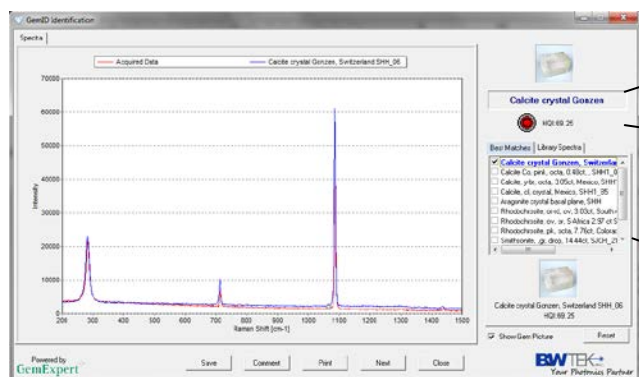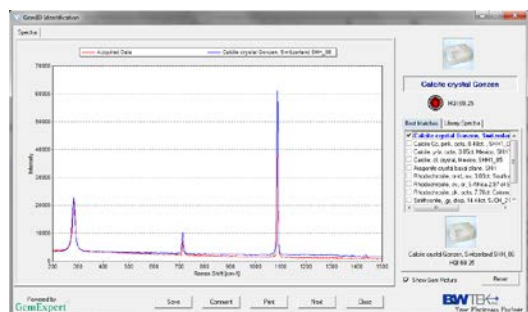

Figure 4

5. Return to "Spectrum Chart" and click "Scan", the result will show after the scan is completed

The highest correlation's image, name

HQI: hit quality index

   Positive verification: blue sign

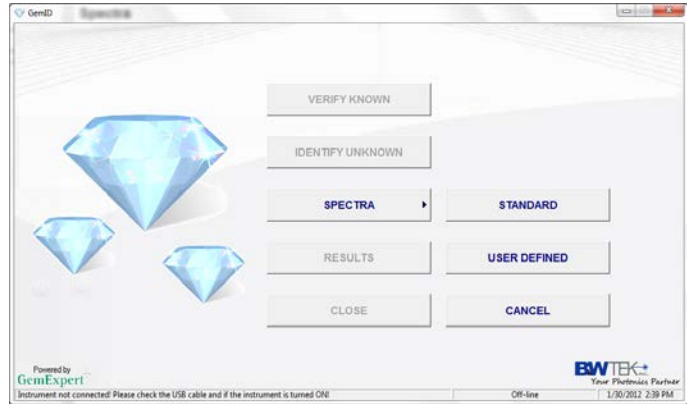   Negative verification: red sign

Table with two tabs:

Best Matches –including 10 spectra ranked from high to low in terms of HQI value.

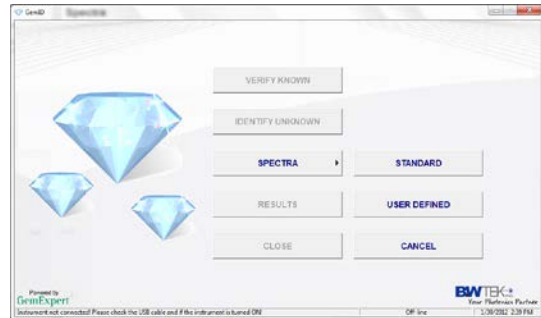*Library Spectra* –including all of the entries in the database

- *Save* –save the collected spectrum. It can be viewed/printed using *Results* function
- *Comment* – up to 150 characters of comments can be added and later viewed using *Results* function
- *Print* – print the identification report.
- *Next* – move on to the next material for analysis.
- *Close* – exit to the GemID main window.

IDENTIFY UNKNOWN – identify an unknown gemstone or mineral. The process is identical to Verify Known except that you do not select the sample from the library initially;

SPECTRA – allow the user to manage spectral libraries. When selecting the Spectra button, three options are available – *Standard*, *User Defined*, and *Cancel*.
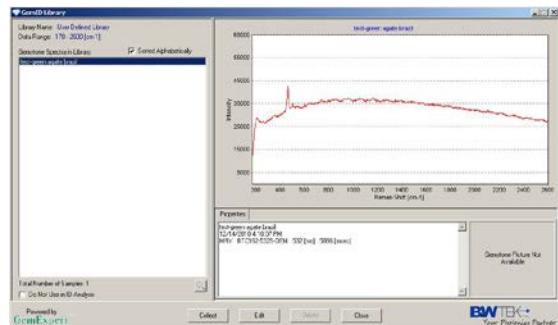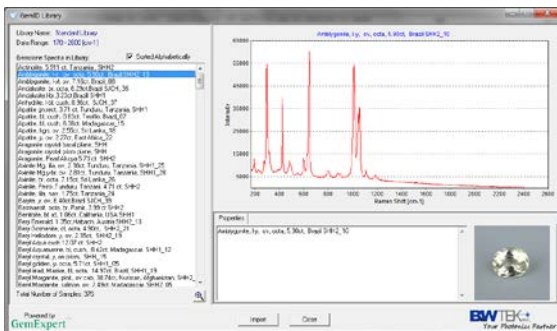

- *Standard* – allow the user to view or update GemID standard spectra library by importing a spectrum from outside.

- *User Defined* – allow the user to create, view, and update a library with spectra collected by the user with a GemRam.

------When click "User Defined"
- *Collect* - collect a new spectrum and then add it to the library.
- *Edit* - edit the properties of a library entry.
- *Delete* - delete selected library entries.
- *Cancel* – exit to the main program window.

RESULTS – View previously collected and saved data from identification/verification.

- *Setup*: configure report parameters.
- *Print*: print out a report.
- *View*: view detailed results for selected ID measurement.
- *Close*: go back to the main program window.

For full instructions please refer to "GemRam Application Software User Manual" 290020224.

For technical support please visit http://bwtek.com/support/.