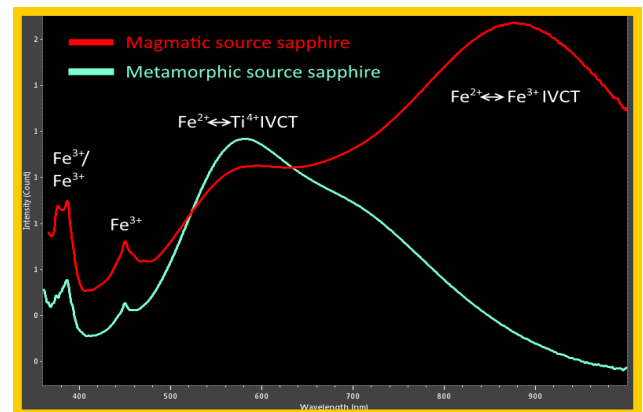




GemmoSphere™ is a small but powerful UV-Vis-NIR spectrometer specifically designed and built for diamond & gemological laboratories.



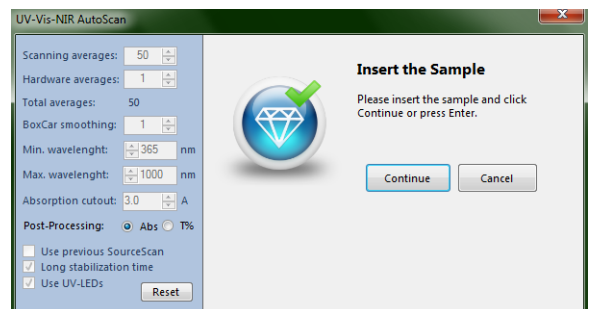
UV-Vis-NIR spectroscopy is likely the starting tool in the modern gemological laboratory. It is routinely used to verify natural origin of colorless diamonds and to test some of the most important gems such as emerald, ruby & sapphire, spinel, tourmaline, jade and many others.



GemmoSphere™ works with the same familiar software as other MAGI products, provided with its own growing UV-Vis-NIR libraries. Following easy steps, the AutoScan wizard produces high quality results starting from the very first use. No prior experience is required - just insert the sample, close the lid and go. The software is loaded with spectra of the most important gems, such as diamond, emerald, alexandrite, sapphire, garnets and jadeite.

Key Features

- Fully automatic absorption spectrometer for 0.01 to 50+ ct loose gems .
- High quality 4" teflon integrating sphere
- Ocean Optics Enhanced Sensitivity spectrometer embedded
- possibility to Work n reflectance for opaque materials
- Minimal sample preparation (cleaning) is required
- CNC milled stainless steel, aluminum and ABS construction
- 4" PTFE- integrating sphere for maximum signal strength
- Ocean Optics Enhanced Sensitivity spectrometer embedded
- Resolution: ~ 1.3 nm
- Range: 365 - 1000 nm (pure results on the whole range)
- 2nd order filtering for spectral purity
- 16 bit A/D resolution (65000 counts)
- Spectrally filtered, Xe-boosted halogen / UV-sources
- Small footprint suitable for desktop; 160 x 255 mm (6.3" x 10") - Weight: 4 kg
- Option for working with diamonds in liquid nitrogen
- Electrically safe 12V system supplied with laptop type transformer (12VDC 3A)
- Easy access for changing the halogen light source
- 15-28°C operating temperature range



Visit our website for more information: www.gemmoraman.com

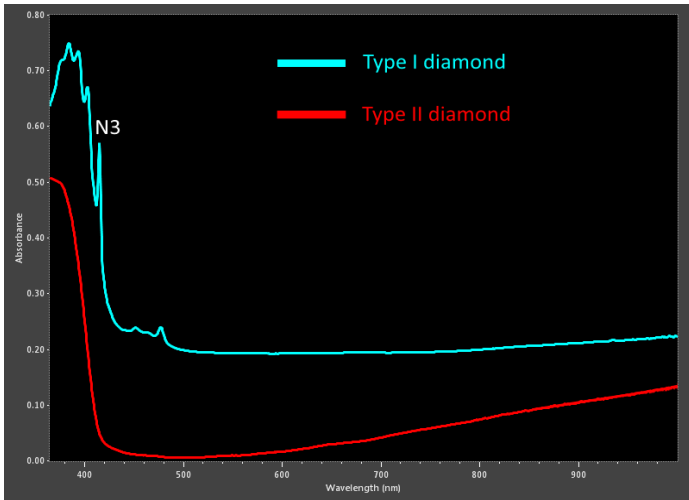
Email: info@gemmoraman.com

Contact: Alberto Scarani, GG - Mikko Åström, FGA

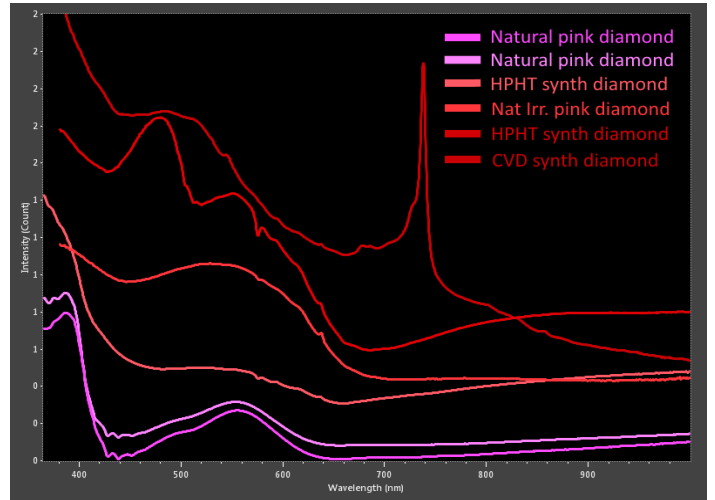
M&A Gemological instruments - Alhotie 14 - 04430 Järvenpää - FINLAND



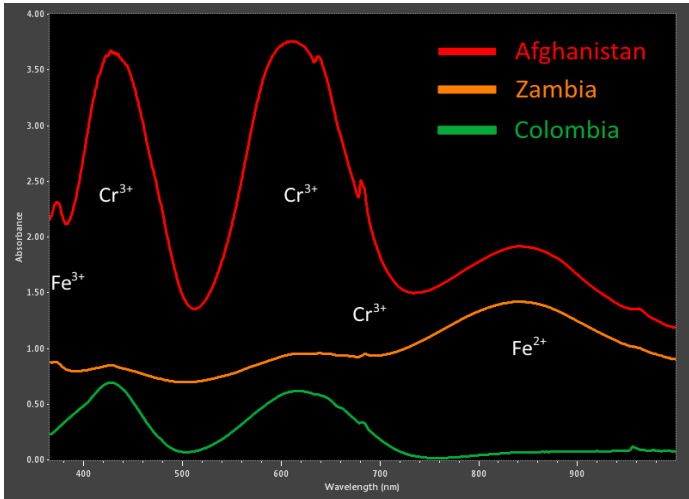
GemmoSphere™ - Application examples



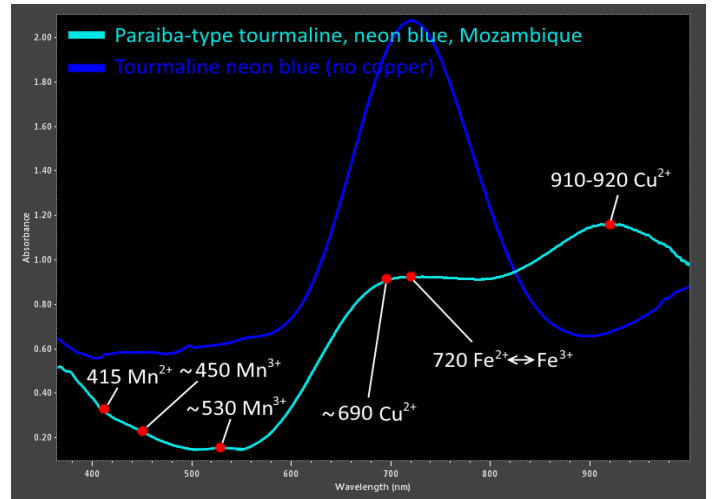
Type I vs Type II diamond



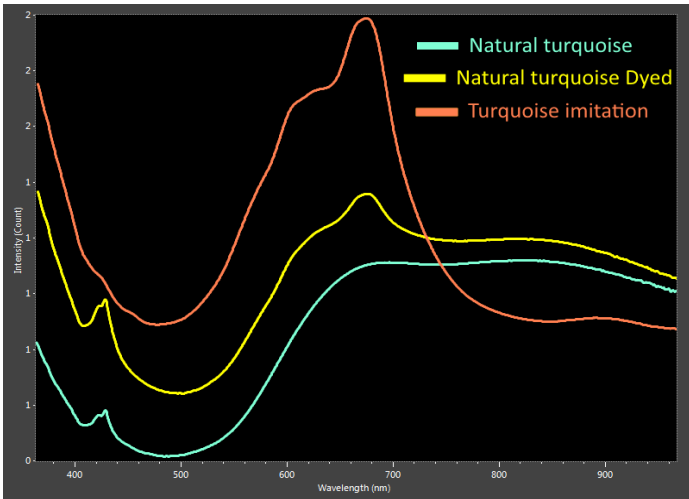
Pink diamonds



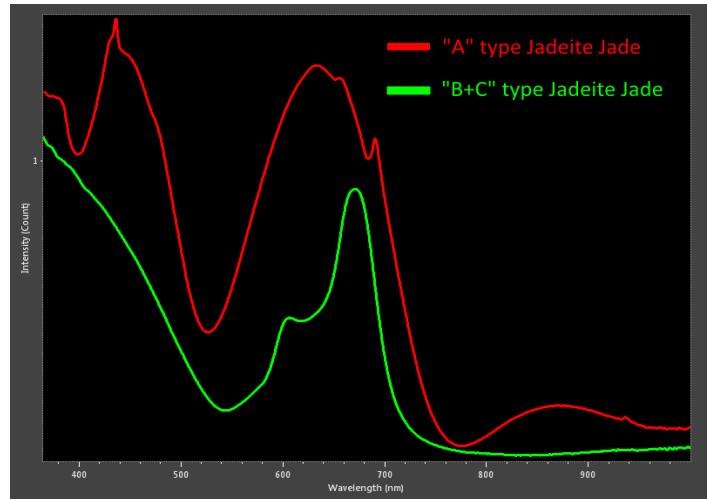
Emerald



Paraiba tourmaline



Turquoise - nat/dyed/imitation



A, B and C type Jadeite Jade