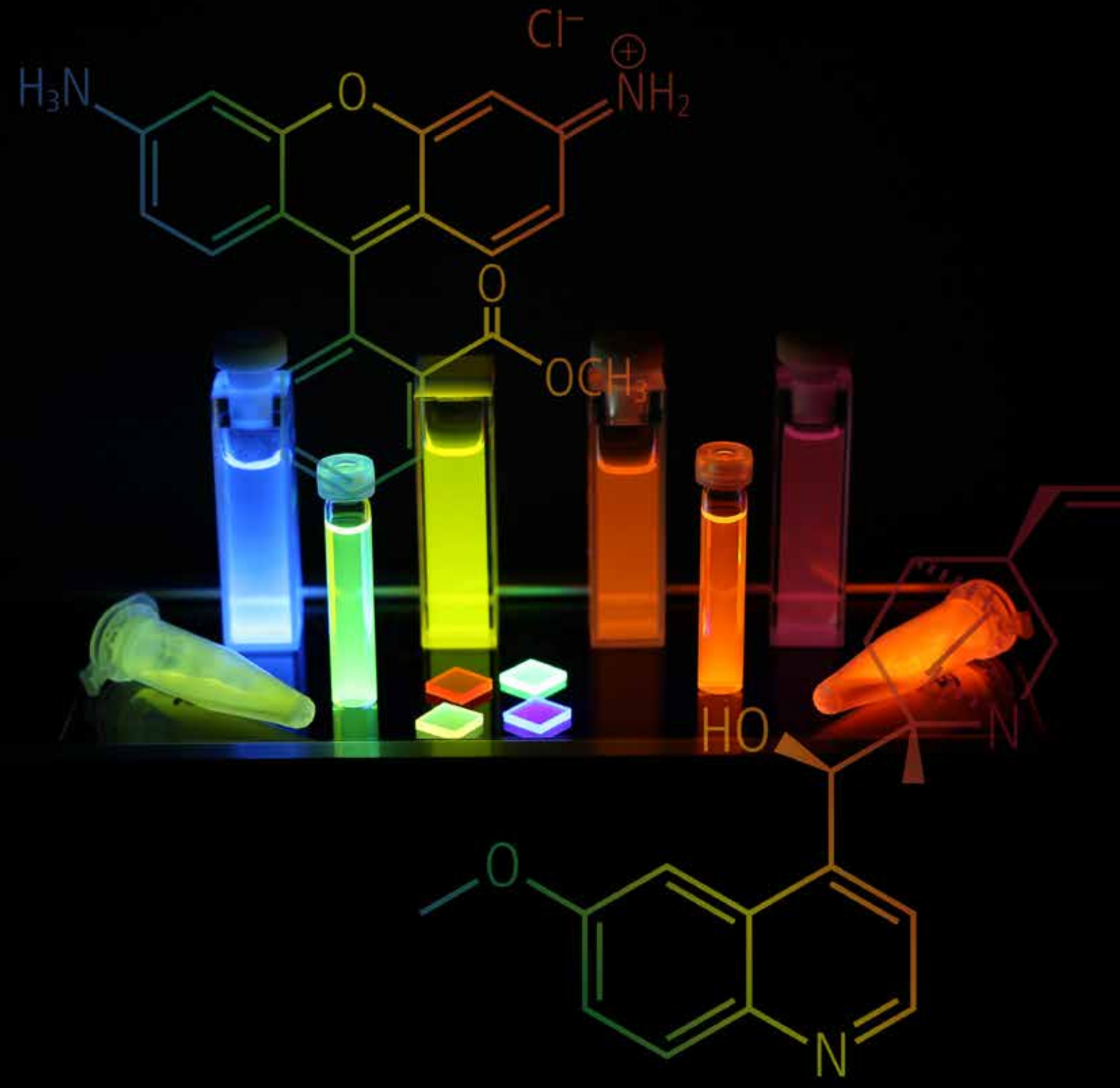
HiPic/Spectro

High Performance Image Control and Processing Software for Spectroscopy



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HiPic/Spectro

About HiPic/Spectro

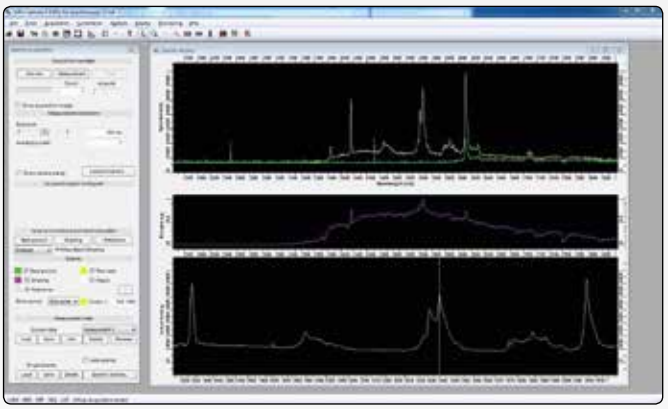
Based on our renowned HiPic general-purpose imaging software, HiPic/Spectro is specially designed for spectroscopic applications. It controls not only Hamamatsu sensor modules such as Mini-Spectrometers, but also spectrographs, pulse generators, image intensifiers and Hamamatsu cameras which are suitable for spectroscopic measurements.

Features

- Support of all cameras and sensors through DCAM
- Support of other devices through internal driver
- Support of spectrographs and delay generator
- Creation and processing of one-dimensional spectra in floating point arithmetic
- Calculation of emission, absorbance and transmission
- Support of wavelength calibration, background and shading calibration, lamp calibration and reference measurement
- Dedicated measurement dialog

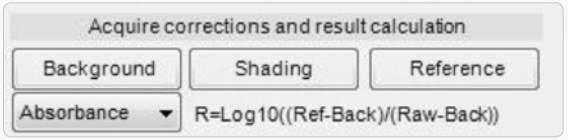
Hardware Control and Spectrum Acquisition

- Preview and measurement mode
- Control panels for settings for spectrographs, cameras and image intensifiers
- Individual display setup (panes for Background, Shading, Reference, Raw data and Resulting spectrum
- Acquisition of single spectra or sequences



Data Storage

- Measurement and correction data are stored in one file
- Sequences are stored in a single file
- Resulting spectra saved separately
- Data are saved in ASCII format – easy to import in other programs for further evaluation
- Recovery function



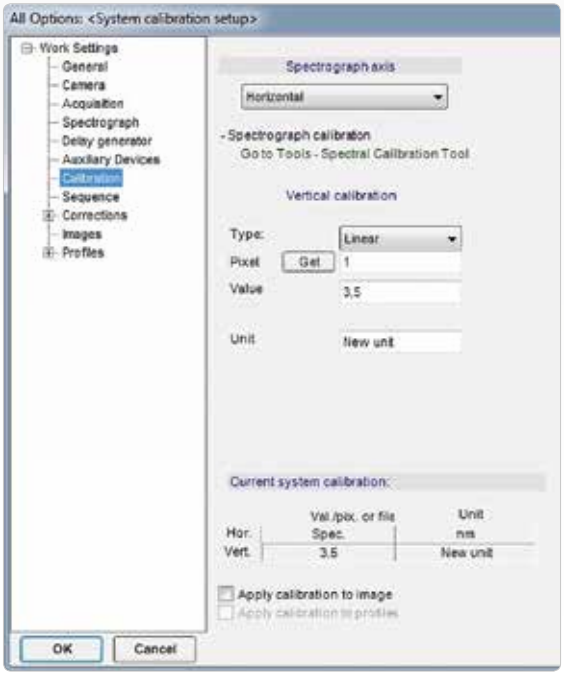
Correction and Calibration

HiPic/Spectro offers the possibility of measuring and storing correction spectra including Background, Shading and a reference spectrum. These data can also be stored and loaded using separate files (for example to use different reference spectra for comparison).

Furthermore a spectral calibration can be easily performed. For Hamamatsu Mini-spectrometers, the calibration provided by the factory is automatically imported and displayed.

Calculations:
For data analysis the following functions are available:

- Emission: R = (Raw-Back)/Shading
- Absorbance: R = Log10 ((Ref-Back)/(Raw-Back))
- Transmission: R = (Raw-Back)/(Ref-Back)



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Specifications and appearance are subject to change without notice