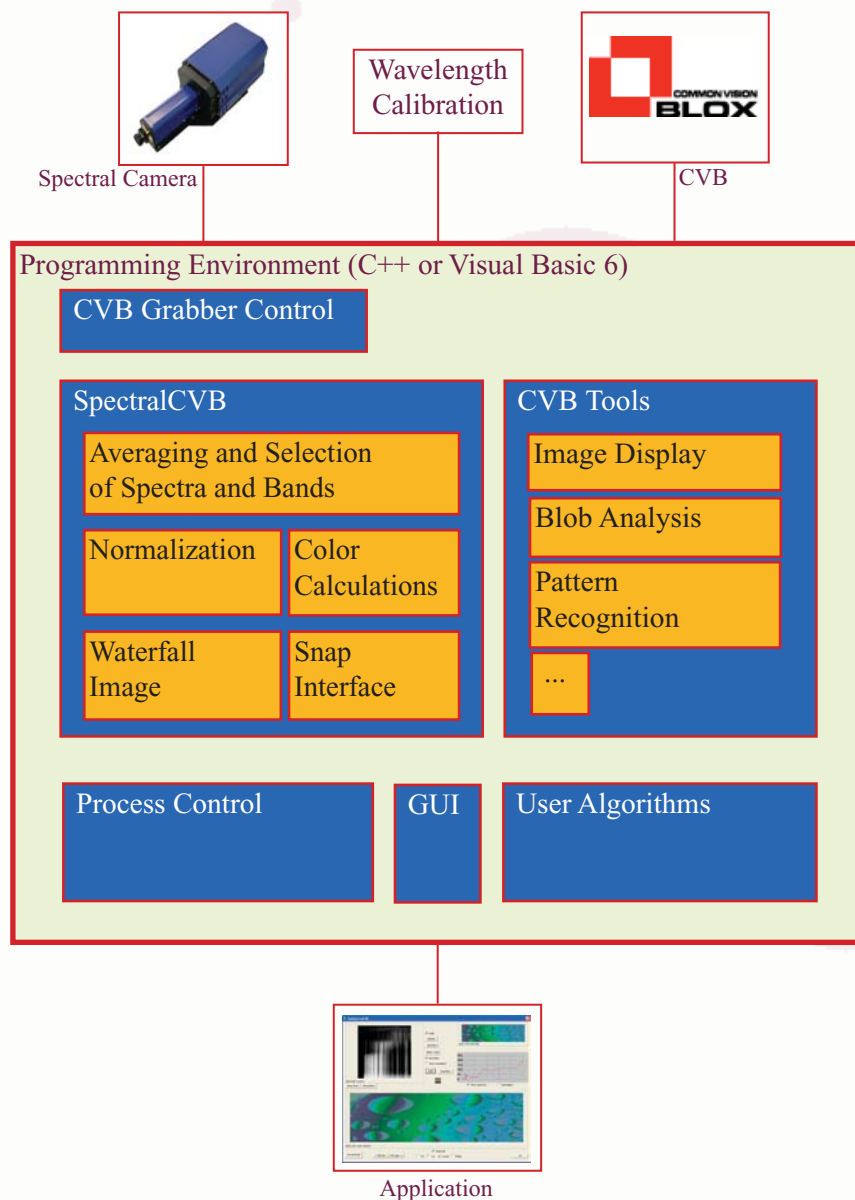


SpectralCVB

Spectral imaging targeting industry applications has now found its place in SpectralCVB together with Common Vision Blox (CVB), the machine vision toolkit from Stemmer Imaging GmbH.

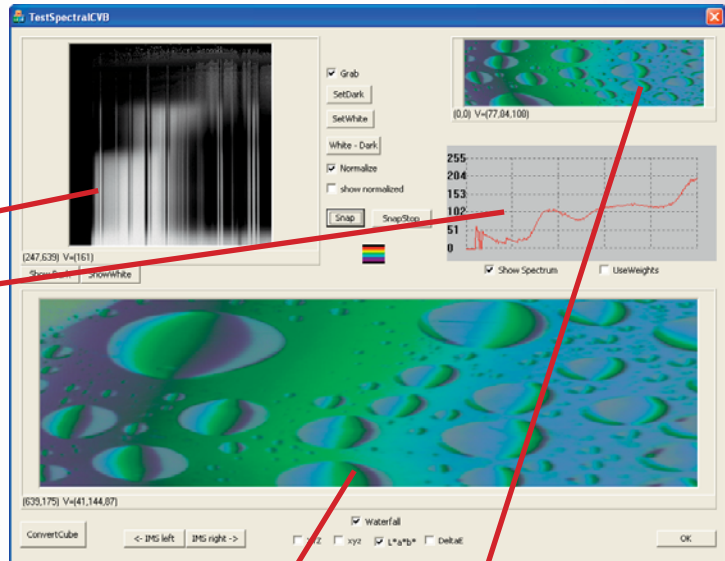
Using CVB as a basis for grabbing and processing images, SpectralCVB comes as an ActiveX control to be used with C++ or Visual Basic 6. It performs basic spectral imaging routines like normalization of spectral frames using dark and white reference, averaging and selection of spectra and bands as well as more advanced routines such as color calculations in several color coordinate systems.

Results from processing several spectral frames are returned as spatial to CVB in either floating point format or mapped to 8bit for displaying. Further processing is then possible with the tools from CVB.



Current Features

- Seamless integration of spectral imaging into Common Vision Blox
- Camera calibration from a file
- Selection and averaging of samples and bands
- White and dark field corrections
- Spectral frame access, e.g. spectral profile
- Color calculations: XYZ, xyz, L*a*b* and ΔE^*
- Output to CVB as 1 or 3 layer images, 8bit or double, e.g. L*a*b*
- Constantly updated 2D spatial image available for displaying selected bands or mapped color spaces (waterfall image)
- Snap interface to gather a preset number of processed spectral frames to be returned as CVB image, processable with tools available from CVB.
- Instant mapping of results to 8bit values using automatic or preset limits
- Conversion from raw ENVI compatible data into CVB image files



Note: Due to continuous development work, specifications are subject to changes without a prior notice.

Application Areas

Industries related to printing, textile fabrics, wood, paper, plastic, ceramics, marble, laminate, carpets, medical applications, warfare, remote sensing, forensic analysis, food and many more.



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