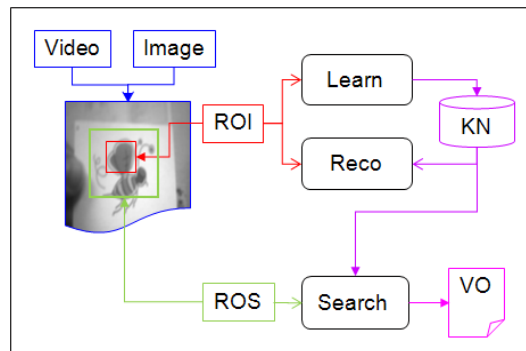


The CogniSight SDK allows communication and control of the CogniSight engine on the V1KU board for image learning and recognition on the board. In addition, the SDK gives you access to all the individual components of the board including the CM1K chip (if you want to access the neurons without going through the CogniSight engine), the Aptina sensor, the Flash memory and the board I/Os.

A CogniSight engine manipulates five simple components:

- Image (video source or image file)
- ROI or Region of Interest
- KN, or Knowledge
- ROS, or Region of Search
- VO, or Visual Objects



### Function library

- Get/Set Region of Interest
- Learn/Recognize Region of Interest
- Get/Set Region of Search
- Search
- Get Object List
- Get Object Map
- Clusterize Object List
- View extracted feature
- View knowledge (i.e. neuron content)
- Set sensor registers
- Load/Save project to file (i.e. knowledge and settings)
- Load/Save project to Flash
- Learn/Recognize vector
- Read/Write registers

### Package

- DLL for standard C/C++ with examples in C/C++ and Visual Basic 6
- DLL for .Net with examples in C#
- Examples illustrate simple object recognition, target tracking, edge detection and more.