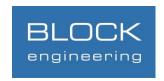
### **SOFTWARE DEVELOPMENT KIT**



#### LASERTUNE & EXTERNAL DETECTOR

# QuickStart: the BLKQCL Control API for Spectroscopy

- Review overall QuickStart.pdf
- The APIs you will care most about for the spectroscopy functionality are
  - GetFactorySettings()

WaveNumberRange, temperature set-point ranges, PreDarkToLight, and LightToPostDark settings, and defaults for UserSettings.

#### GetUserSettings() / SetUserSettings()

External pulse control, SampleDelay, SampleWidth, Laser and detector temperature set-pointers, triggers, pulse width/duration, and much <u>more</u>.

#### o StepScan()

This function scans all from the start wave number to the end wave number, in increments of delta, and returns the resulting spectrum.

## SweepScan()

This function scans in the designated wavenumber range and returns the measured spectrum.

#### InterleavedScan()

This function scans all supported laser frequencies, emitting laser radiation, and reading back a measured spectrum (from the detector).

#### StopLasers()

Aborts any outstanding laser operations, and it turns off the laser.

• For more details on the these and other APIs, consider the BLKQCL-SDK-API-Reference.pdf