

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 [more](#).
 - [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 these and other APIs, consider the [BLKQCL-SDK-API-Reference.pdf](#)