

Summary of Instrument Documentation

C:\TDLWintel\Notes and Docs

Getting Started CW-Mini – Instructions for installing and turning on the instrument.

Instrument Overview - Mini QCL – Powerpoint presentation describing operating principles, optical design, optical alignment procedures and data acquisition approach.

TDLWintel Manual - Software manual for instrument operation.

TDLWintel Software Outline – Outline of principal topics covered in the software training.

Laser Data Sheet(s) – Laser specification sheets from the manufacturer.

Sample cell flow setup for QCL – Practical advice and theoretical background for setting sample flow rate and instrument response time.

Cell Cleaning Instructions - Mini - Description of procedure for removing and disassembling the optical cell and cleaning the high reflectivity mirrors.

Spectral Simulations - Igor experiments that provide spectral simulations for the target spectral region.

Igor Macro Install Instructions - Instructions for installing Igor macros.

TDLWintel Installer 775 – Instructions and files for installing TDLWintel on an alternative analysis computer for executing reanalysis of spectral data (Playback).

Technical Issues Relating to Eddy Covariance – Powerpoint presentation discussing several technical issues related to using the Aerodyne QCL trace gas monitor for eddy covariance and/or chamber measurements. Topics include flow rate, time response, water vapor corrections and data integration and timing issues.

Valve Mask Tool – Video instructions describing the Igor valve mask tool which sorts stream data according to the state of the electronic solenoid valves.

Thermocube Manual - Manual describing operation and maintenance of Thermocube recirculating bath.

Monitor Resolution Adjustment – Procedure on how to adjust the monitor resolution

Nation Instruments Driver Install Package – Used to install NI Driver or fix corrupt drivers. This is usually located in the C:\ directory