Spectradyne

PARTICLE ANALYSIS

Spectradyne Tools Software
And Driver Installation Guide

Acquire™

Simple instrument control and data acquisition

Analyze™

Powerful data analysis tools

Driver Installation

Objective

This guide will help you install the necessary drivers and packages to use our Acquire and Analyze software with our systems. Some working knowledge of Windows operating systems is necessary. This guide is for use with our nCS1 and nCS2 nanoparticle analyzers, for ARC installation please see our 'SP Tools and Driver Installation Guide for the ARC'.

1. Measurement Computing Drivers

1. MMC drivers: a. Install "InstaCal" and dependencies:

 i. Get "mccdaq" setup file (typically in the 'nCS1 PC Setup' or 'nCS2 Setup' folder on the Desktop, also available on our website at nanoparticleanalyzer.com/DLHIDGEN3)

 ii. Run "mccdaq" and follow setup prompt, keeping the default settings

2. Configure MMC Boards:

 a. Turn on the nCS1/nCS2

 b. Connect nCS1/nCS2 to the computer by USB

 c. Run InstaCal (search for "InstaCal" in the Start Menu Search Bar) the first time to update the registry

 d. Run InstaCal a second time to configure boards: i. Click OK in the Plug and Play board detection window to add the USB-2527 (DAQ Board), USB-DIO24/37 (DIO Board), and USB-201 (Pressure Sensor Board, not available on all nCS1 systems) to the configuration file

 e. Exit Instacal

3. If the boards are not being recognized:

 a. Find the drivers in the 'nCS1 PC Setup' or 'nCS2 Setup' folder on the Desktop, or on our website at nanoparticleanalyzer.com/DLHIDGEN3 (Serial Port Drivers.zip)

 b. Extract the .zip file

 c. Go to Device Manager: Update the serial device(s) with (?) symbol by double clicking and under the 'Driver' tab, select 'Update Driver'. In the prompt select 'Browse my PC' and select the unzipped 'Serial Port Drivers' folder.

4. NOTE: Occasionally Windows requires an update (FTDI Ports) that only appears after the nCS1 has been plugged into the instrument, be sure to connect the nCS1/nCS2 to the PC and run 'Check for Updates', under 'Optional Updates' the FTDI port update can be found.

2. SP Tools (Acquire and Analyze)

1. Obtain the latest OS-appropriate build (typically in the **'nCS1 PC Setup' or 'nCS2 Setup' folder on the** Desktop**, also available on our website at nanoparticleanalyzer.com/DLHIDGEN3)**

2. Extract the .zip file (SPTools_3.5.0.xxx.zip)

3. Run the executable (SPTools_3.5.0.xxx.exe) and follow installation instructions

 a. Run "updateCal" when prompted at the end to download a copy of MoldCal_latest.csv from our servers

 b. If the computer is not connected to the internet: Obtain the latest Mold Calibration file at https://www.nanoparticleanalyzer.com/DLHIDGEN3 and add it to the 'reffiles' folder in the Spectradyne Tools install location (by default it is C:/Spectradyne)

Reach out to us at support@spectradynellc.com or visit our website for more guides