LC-MS setup VanquishNeo

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Installing software for the VanquishNeo

You will need to download the latest version of software from the Thermo download portal:

Advancing Proteomics

https://thermo.flexnetoperations.com/control/thmo/login

UWPR

you will need SII for Xcalibur and VanquishNeo driver



Installing SII for Xcalibur

Read the latest Installation Guide, make sure you have the latest versions of software (Xcalibur, instrument software) you need for this version of SII.

If you are upgrading from an earlier version of SII, remove it from the configured devices in the Instrument Configuration window. You may have to uninstall the older version of SII, before upgrading Xcalibur and the mass spec driver (if needed)

Then install SII for Xcalibur and follow the prompts, you'll have to reboot the PC a couple times.

Installing the VanquisNeo driver

After installing SII for Xcalibur, install the VanquishNeo driver, follow all the prompts.

Configuring the VanquishNeo

With the VanquishNeo connected, open Instrument configuration





Select SII for Xcalibur and add it to configured Devices:



Select SII and hit Configure, wait for the pop up window:

All	~		
vailable Devices:		Configured Devices:	
Thermo EASYINLC	for Xcalibur Configuration	Device	entile SII
	No instrument systems found	I. Please configure a device.	100
Orbitrap Astral	Controlled by ex	temal autosampler a if missing vial (v 1.6)	
	OK Car	icel Help	
	Add >>	<< Remove	Configure
	Dana	Halo	

æ.,

Click on Configure Device and wait for the Chromeleon Configuration Manager to open:



Right mouse click and select "add new Instrument", in the pop up name it VanquishNeo



Right mouse click and select "add module", in the popup on the left side select "HPLC: Vanquish" and on the right side select "Vanquish Neo System":



In the "Vanquish Neo System Configuration" pop up window, enter the IP address of the VanquishNeo, you can look it up on the Neo screen:

						Vanquish Neo System Config	guration	×
	09:28:43 AM Aug 1 vsc-6402517 2.3.0.	9, 2024 57463				Simulation Mode System Controller (Host Name/IP, Pressure Unit:	bar V	h
		System Name:	vsc-6402517	Connectivity Network: Custom	up Langu			
X		Version: Uptime:	2.3.0.57463 0.0 d	IP Address: 172.16.0.104 Netmask: 255.255.0.0	Timez			
÷		Total Operating Time:	17.0 d					
\$ _				Software Update Current version: 2.3.0.57463	Licen This free			
(i)							Next >	Cancel Help

Hit next and it will reach out and find the neo

ystem Controller (Host Name/IP): 172.16.0.104		
ressure Unit:	bar	\sim	
First Pump S/N:	8367933	~	
Sampler S/N:	8367914	\sim	
Column Compartment S/N:		\sim	
Left Valve:	None		\sim
Right Valve:	None		\sim
Second Pump S/N:		\sim	

If you get this error, reboot the VanquishNeo and the computer and try adding the module again, you should see the messaged on the right side like in the screen shot below:



Once you configure the VanquisNeo you should see a bunch of updates in the right panel:

instrument Configuration - Chromeleon Instrument Configuration Manager	– U *
File Edit View Controller Help	
🖆 🖪 🕹 📾 🛛 🎗 🖴 😹 🤪 🦨 🗱 🗸 🕸 🔥	
Starable Interfaces Sharable Interfaces Vanquish Neo System [172.16.0.104]	Hessages Instrument Controller 7R6H7V3 [Expert] 1008 08 AM Uker Thermo (hom 7R8H7V3) has connected Chromeleon Instrument Configuration Manager to his controller. 10108 03 AM Thermo (hom 7R8H7V3) has connected Chromeleon Instrument Configuration Manager to his controller. 10108 03 AM Thermo (hom 7R8H7V3) has connected Chromeleon Instrument Configuration Manager to his controller. 10108 03 AM Thermo (hom 7R8H7V3) has connected Chromeleon Instrument Configuration Manager to his controller. 10108 03 AM Thermo (hom 7R8H7V3) has connected Chromeleon DVK Hub (hom 2009 2023 Thermo Flaher Scientific Inc. All rights reserved. 10108 03 AM Thermo Flaher Vanquish Neo System. 10108 03 AM Thermo Flaher Vanquish Neo Diver. Thermo Flaher Vanquish Neo Diver. Version 1.21.1.1770. © Copyright 2009-2023 Thermo Flaher Scientific Inc. All rights reserved. 10108 03 AM Thermo Flaher Vanquish Neo Diver. Thermo Flaher Vanquish Neo Diver. Version 1.21.1.1770. © Copyright 2009-2023 Thermo Flaher Scientific Inc. All rights reserved. 10108 05 AM (hom Toring to connect) 10108 05 AM (hom Toring to connect) 10108 05 AM (hom System Controller) (hom 2000) 10108 05 AM (hom System Controlle

Then save the configuration:

Save Configuration?	×
You have changed the configuration of instrument controller 7R6H7V3. Do you want to save your changes?	
If you choose to revert changes the instrument controller will reload to most recently saved configuration and your changes will be lost.	
Save Revert changes Cancel	

You should see the following:

SII for Xcalibur Configuration	×
Configure Device	ľ
	E I
Please select an instrument system:	
VanquishNeo 🗸	
☐ Controlled by external autosampler ✓ Go to error state if missing vial (v 1.6)	
OK Cancel Hel	p

Reboot the PC and open inst config,select SII and it ok, close inst config

Wait for it to close then open Xcalibur, note the light indicators on the Neo should turn green. Sometimes it requires a reboot of the Neo and the PC for it to connect. In the Xcalibur Status pane you should see SII Connected:



Status Acquisition Queue

un Manager
Ready to Download
Sequence:
Sample Name:

Sumple Humer	
Working On:	
Position:	
Raw File:	

Raw File: Inst. Method: Thermo Scientific SII for Xcalibur Ready To Download Orbitrap Astral Ready To Download

Status	
Vanquish Sampler	M
Inject Position: SR:1	Volume: 1.00
Vanquish Pump	
Flow: 0.300 [µl/min]	Pressure: 173.9 [bar]
A - 96.0 [%]	B - 4.0 [%]
Solvent Type	Solvent Type
H2O	ACN80