Rigaku Smart Lab instructions

July 7th 2023 - V1.0

Software Startup procedure:

Start your kiosk session to turn the computer monitors on.
Check that the remote desktop is running this is needed to connect to the detector.

> If it is not click the Hypix Server icon
>> There is no password
> Once connected you will see the following screen. On the remote computer
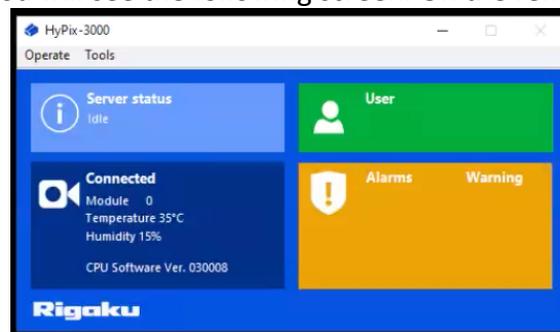
> Minimize the window

On the menu bac check that the ICServer Task Tray icon is blinking green and blue which indicate it is operating normally.
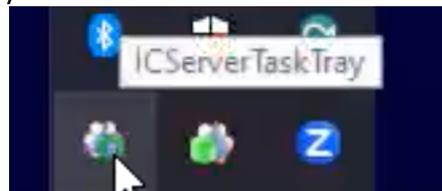
You can now start SmarLab Studio II

> Login Rigaku User
> Password – given during training

It will take about 1 minute to fully load.

X-ray warm up:
Once loaded check the X-ray power by going to the H/W Status Tab if no one was using it before you it should read 20kV and 2mA
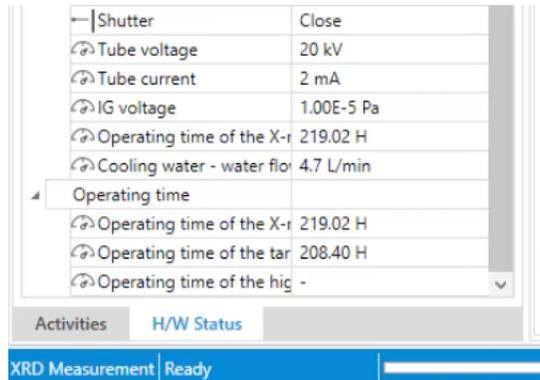
In the "startup/Shutdown" window (bottom right corner)
Check that the calculated duration show 14:25 minutes/ "Use Everyday Rac"
Then on the Startup side of the window click Run
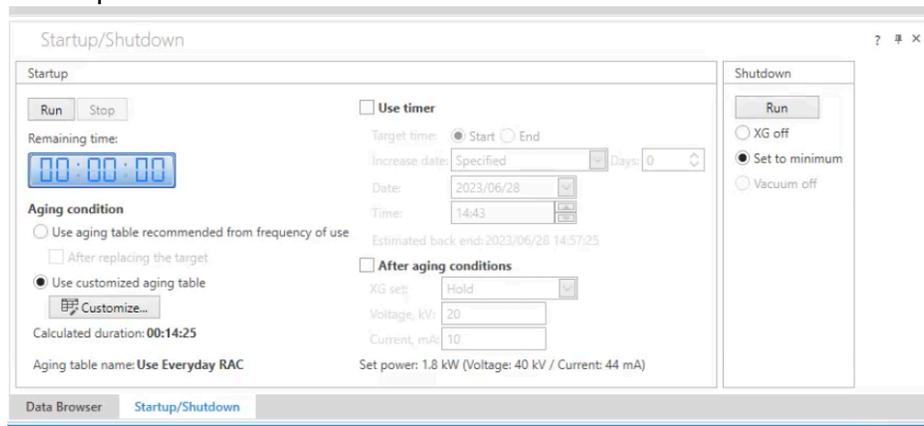
If the X-ray power a longer warmup procedure will need to be used. ~ 45 minutes.

While the X-ray is warming up:
I the Activities tab (left hand side) select the procedure you would like to use. A few options are available in the "Rigaku User" list. We may also prepare a specific one for you which we would save in your data folder.
Adjust the parameters as needed and chance the file name for the new data to be saved.

Running your measurements:

Once the power is on proceed with running your Flow either starting from the PB or BB alignment if the last user used a different setup or you are unsure, or starting at the next step.

Once done using the instrument:

Move to the home position by clicking the icon.

If someone is running right after you clear the data in the data browser and leave the power on.
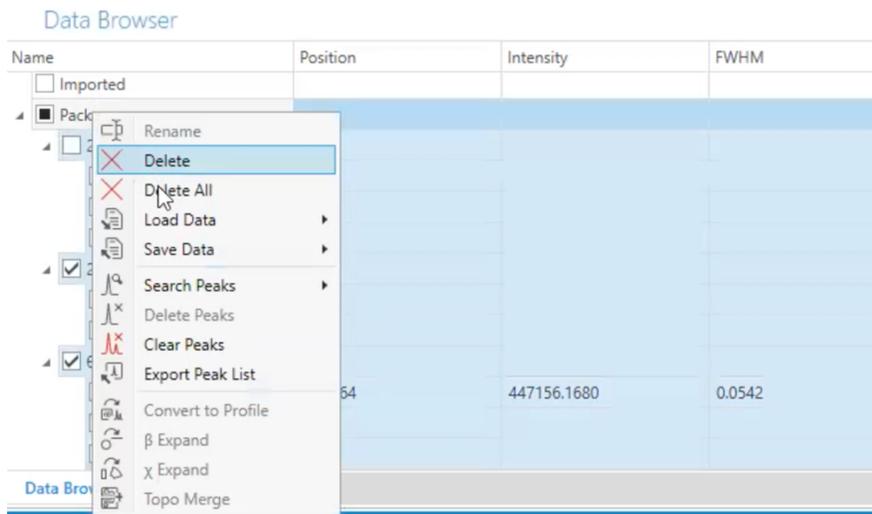
If nobody is booked for the next few hours, go to the "startup/Shutdown" tab on the bottom right of the software.

On the right side under the Shutdown column check the radio button is selecting "Set to minimum" then click run to set the X-ray power to the minimum.
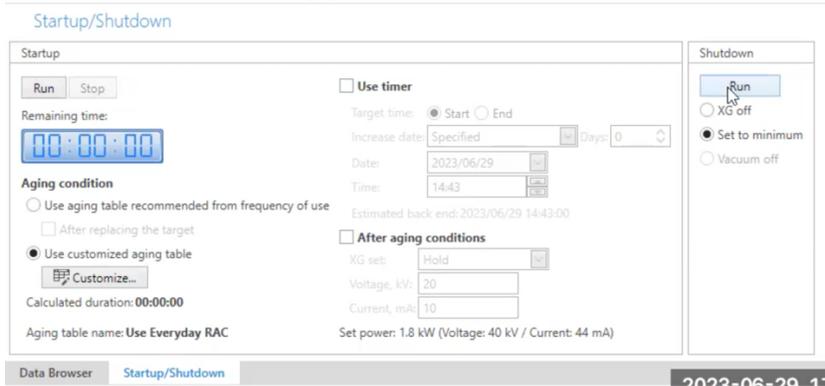
Then close the software

Do not forget to end your Kiosk session.