

B23 Starting Up

1. Turn on the Nitrogen (25L/min) for 15 mins.
2. Look at the Linux station monitor, if Port shutter is closed, called Control [x8899](#) to open Port shutter.
3. Click [FE Beam Permit button](#), click [Reset](#).
4. Click [FE Beam Permit button](#) again, click [Open](#). Wait until you see the light path to the modules.
5. If temperature control is required for experiments,
 - a. turn pump on (JULABO AWC 100)
 - b. turn Quantum Peltier box.
6. Turn on OLIS System Controller Black Box next to PC tower
7. Turn on PC, press Ctrl Alt Del and type username: [OLIS](#) & password: [OLISUser](#)
8. Open "[Olis GlobalWorks](#)" on the desktop, click "[Data Collection](#)", then "[DSM20](#)"
9. Click [X-Y axis](#), check box next to [Plot HVs](#)
10. Click [Live Display](#) on the tool bar to enter parameter required.
11. Click [Temp Controller](#) if using Peltier system, click ON and enter value of Temperature required.
12. Open [E-book](#) on the other PC monitor. Fill up details of experiments.
13. Go back to [Live Display](#) and press, [Collect Data](#) to start measurement. Sample pop-up box will appear. Fill in sample details which can be copied from E-book for your reference. Click [Save](#) to start the measurement.
14. After data collection, a command will appear asking if you want to transfer data. Click [Yes](#) to transfer. Data can now be saved.
15. Save data as date, module used, spectra number. eg first spectrum run on [Module B on 21 July 2012](#) would be saved as [210712b01](#).
16. To save data, click file [Save as](#), select [P:b23-storage](#), click the [year](#), then your [project no](#). Save file under the name as above.
17. **Please only keep up to 30 datafiles open (including PMT data) to avoid system crash.**

Data Handling

Data are saved in proprietary *.ols files. These files can be converted to ASCII files as block conversion using Diamond in-house ASCII converter called OLISgui. To convert files

- 1) Click on **My computer** or under **Settings**
- 2) Open **W:\\software.diamond.ac.uk**
- 3) Click **CD programs**
- 4) Click on **OLISGUI** latest version
- 5) Another window **OLIS ASCII Converter** will open
- 6) Click **browse** of OLIS file and open **B23-storage.diamond.ac.uk**
P: drive, click **year**, your **project no.**, select all *.ols files to be converted
- 7) Click **Open** and all files selected will be displayed in the box
- 8) Click **Convert**– **DO NOT INTERRUPT THE CONVERSION PROCESS**
- 9) The converted files (this may take some time depending on how many files are being converted will have the same name but with extension *.txt displayed in the box.
- 10) Converted files are stored in **Processing folder** of your project folder.
- 11) Close the converter.
- 12) Data can now be open with any spreadsheet software.