STarSystem 2.3 Installation Guide

PD 035-325

Applied Cytometry Systems

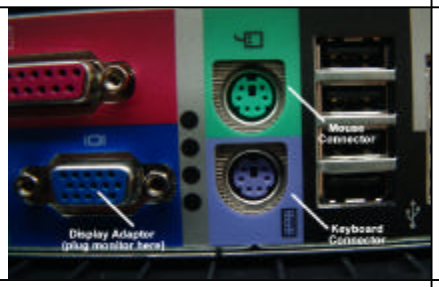
Unpack XY platform and place on a level surface ☐

Remove the red shipping pin from the XY Platform and place the XYP on a level surface in the desired location. ☐

Add the probe guide to the XYP. ☐

Rest the Luminex Analyzer on top of the XYP, using the probe guide or hemispherical ridge as a guide. ☐

Unpack and assemble the PC- connect mouse , keyboard and Monitor. Connect the PC and Monitor Power cables. ☐

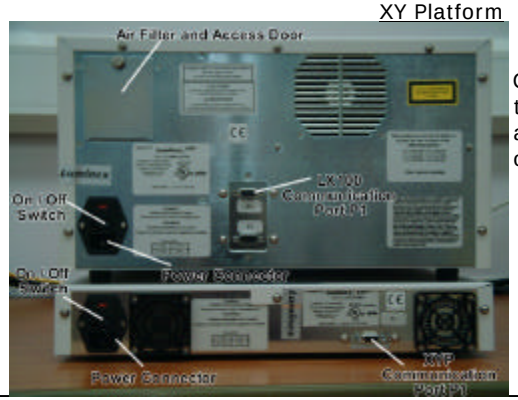


IS-version Cytometer

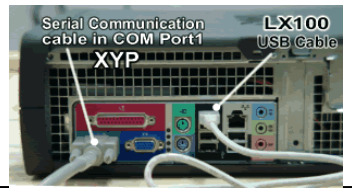
Connect the serial-USB connector to the P1 communication port of the Luminex Cytometer and to a USB port on the PC.
Note: you may be prompted to install the device drivers for the LX100/200 at this stage. ☐

Connect one end of the CANBUS connector to the P2 communication port of the Luminex Cytometer and the other end to the port on the rear of the SD unit. ☐

XY Platform



Connect the serial connector to the XYP platform and an available COM port at the back of the PC.



☐

Check the Waste Bottle is empty and connect the Orange coloured connector to the side of the LX Detector (Check that the waste bottle cap is vented!).
Check that the sheath bottle has sheath fluid and that the cap is tightened, connect the green and blue connectors.

If using a Sheath Delivery Device, unpack it and place adjacent to the LX Detector but do not connect to the system.

The sheath Bottle or Sheath Delivery system **MUST** be at the same level as the LX Detector. ☐

Connect power cables to the XYP, SDD and the Luminex cytometer. ☐

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Switch on power to the Monitor, PC, XYP and LX Detector. Turn on the XYP , LX Detector and Sheath Delivery Device.
Note: the instruments have individual power supplies.
(You should now be able to see a blue light on the XYP and LX Detector). Confirm within 30 seconds of cytometer power up that the compressor is functional via a audible low pitched grumbling sound) ☐

Connect a STarStation System Control Romlock to the parallel/USB port of the PC. ☐

Install STarStation 2.3 and Romlock Drivers

Ensure that you have administrative rights before commencing install.
Place the STarStation CD into the CD drive of the PC.
The installation process should begin automatically. If not select the setup.exe file from the root directory of the CD.
Follow the STarStation installation wizard prompts. ☐

When STarStation installation is completed, install the DESkey Romlock drivers from the **Setups/DESKey Drivers** folder on the CD (dk2wn32.exe file). ☐

Install the LXR Runtime Component (LX Service)

If installing onto a system which does not have Luminex IS 2.3 Software installed, it is necessary to install the LXR component which STarStation requires for communication with the system hardware. The LXR runtime installation program is located in the **Setups/LX Runtime Install** folder of the STarStation 2.3 Installation CD. ☐
If the PC already has Luminex IS 2.3 software installed or the STarStation installation is for an analysis-Only package proceed to the next step.

1) When the LX Service is installed and running, launch STarStation.

2) The LX Service should run automatically. ☐

3) Login using the demo level3 user account: Password “demo level3”.

4) Confirm that the Romlock is detected correctly.

5) Confirm that STarStation correctly detects the system components. The Instrument status bar should display the states **Ready** for STarStation and **Idle** for the Luminex Controller.

Ready_Idle

If following this procedure the software still does not detect the instrument, refer to the troubleshooting topic if the STarStation software help documentation (press the F1 function key when STarStation is running).

Start the STarStation Instrument Controls (CTRL + I), Eject the plate and place the XY platform fluid reservoir containing sheath fluid on the tray. ☐

Ensure that the probe Height is optimally adjusted for the microtitre plate refer to document PD 035-305 in the STarSystem User Information pack for further details. ☐

Ensure that the sample probe actuator arm moves smoothly in the probe guide (LX100 systems only). ☐

If installing a Sheath Delivery Device ensure that the Pressure Verification Procedure has been performed (Refer to document PD 035-311 in the STarSystem User Information pack for further details). ☐

Perform the system startup procedure to prepare the instrument for calibration.
The following operations should be performed manually from the Cleansing and Control tabs of the instrument controls or via the system startup script. ☐

Warm Laser
Prime
Wash
Alcohol Flush
Wash
Wash

Calibrate the System using the supplied CAL1 and CAL2 Calibration Microspheres. ☐

Refer to document PD 035-303 in the STarSystem User Information pack for further details.