


STarSystem Sample Probe Height Adjustment

The height of the Sample Probe must be adjusted manually to set precisely how far the probe goes into the well when sampling. **Probe height is absolutely critical to ensure correct Sample Acquisition**

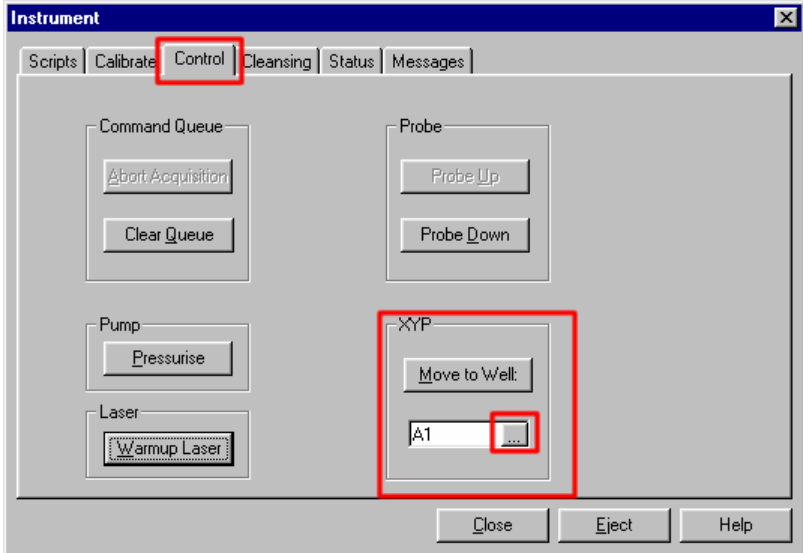
Step 1

Display the STarStation Instrument Controls by selecting the Instrument Controls option from the **View** Menu, using the CTRL + I shortcut key sequence or clicking the Instrument Controls icon.



Step 2

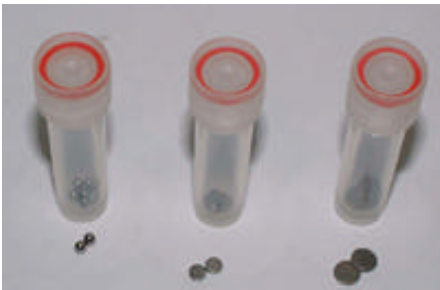
Select the **Control** Tab and Click the **Eject** button.



Step 3

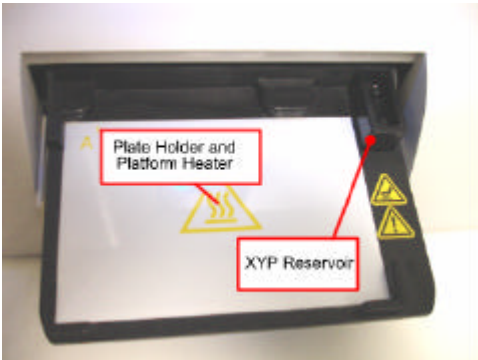
Place the appropriate spacer/s in a well of a 96-well Plate of the type used routinely for assays.



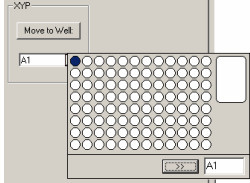





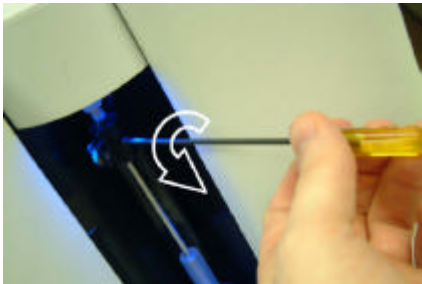
- One sphere for plate with round bottomed wells.
- Three disks for microplates with flat bottomed wells.



Step 4

Place the Plate on the XY platform tray and click the **Retract** button.



<p>Step 5</p>	<p>Click the  (ellipsis) button in the XYP window and select the well in which the alignment discs or sphere was placed and click the Move to Well button.</p> <div style="display: flex; justify-content: space-around;">   </div> <p>It may be necessary at this stage to remove the plastic shield that covers the sample area and the light housing above the sample need to allow improved access to the Sample probe assembly.</p> <div style="display: flex; justify-content: space-around;">    </div> <p style="text-align: right; font-size: small;">Removing_The_LX100_Light_Housing</p>
<p>Step 6</p>	<p>Loosen the Hex Lock screw on the probe arm with the Hex key (LX100 systems) or loosen the probe adjustment screw (LX200 systems).</p> <div style="display: flex; justify-content: space-around;">    </div> <div style="display: flex; justify-content: space-around; font-size: small;"> <p>LX200_Probe_Height LX200</p> <p>ThumbWheel Hex Lock Screw LX100</p> <p>LX100</p> </div>
<p>Step 7</p>	<p>Temporarily hold the door of the XY platform open. CAUTION, do not place hands inside the XYP, beyond the entrance to the XYP plate carriage, keep face well away from the entrance too.</p>
<p>Step 8</p>	<p>On the Control tab of the Instrument Controls dialog, click the Probe Down button.</p>
<p>Step 9</p>	<p>When the sample probe assembly is in the down position, the probe tip should be just resting on the adjustment spacer. Use the thumb wheel (LX100 systems) or push the sample probe in the adjustment slider (LX200 systems) to adjust the vertical location of the probe sample tip with respect to the sample arm.</p>
<p>Step 10</p>	<p>Tighten the locking screw with the hex-key (LX100 systems) or the adjustment screw (LX200 systems).</p>
<p>Step 11</p>	<p>Operate the Probe Up and Probe Down buttons several times to check the alignment within the probe guide and that the probe height set is OK. Ensure that the plate does not bounce or plunge by looking through the XY plate door. Ensure smooth operation of the probe within the probe guide.</p>
<p>Step 12</p>	<p>Click the Probe Up button and then click on the Eject button to remove the Plate.</p>
<p>Step 13</p>	<p>Remove the Spacers from the Well and re-stow these and the Hex key (LX100 systems only) in the left-most access panel on the front of the Luminex Detector.</p>