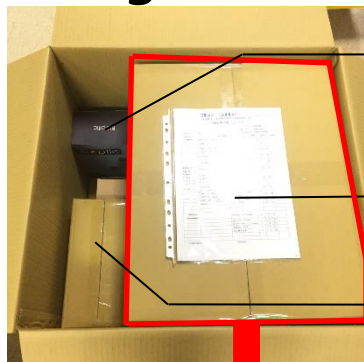


Getting start with Qsep₁₀₀



C105200 (S1 & S2 Cartridge Kit)
C105200 (S1 & S2 卡匣組)

Packing List
包裝清單

Qairbox
Portable DC Air Pump
可攜式DC空氣幫浦



Qsep₁₀₀

Power Adapter
電源供應器

Software Key
軟體金鑰

USB Cord
USB 連接線



Install Qsep₁₀₀ 安裝 Qsep₁₀₀

1. Unpack Qair_{box} and tighten the air tube with connector
將 Qair_{box} 開箱並把氣管插入轉接頭

2. Plug the power cord into Qair_{box}
(* Please check the Qair_{box} label on the power cord)
請先將 Qairbox 接上電源
(* 請確認電源線上的標籤是屬於 Qair_{box})

Connector



Label

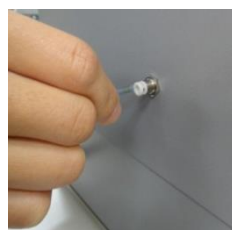
3. Plug the power cord and USB cord into Qsep₁₀₀
(Please make sure the label on the power cord is labeled Qsep₁₀₀)
將 USB 線及電源供應線接上 Qsep₁₀₀
(請確認電源線上的標籤是屬於 Qsep₁₀₀)

4. Connect the other side of USB cord to the operation computer
將 USB 另一端連接您操作的電腦



5. Plug the other side of the air tube into Qsep₁₀₀ and turn on the Qair_{box}
連結氣管線並開啟 Qair_{box} 電源

6. Remove the protecting foam before turning on Qsep₁₀₀
開啟 Qsep₁₀₀ 前務必移除保護泡棉



Your Qsep₁₀₀ is READY TO USE
隨時可以使用您的 Qsep₁₀₀

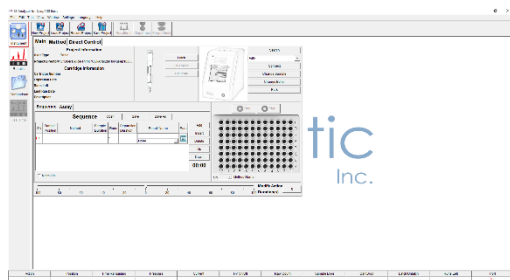
***DO NOT switch on the instrument immediately after powering off
Wait at least 5 seconds**

1. Turn on the power.

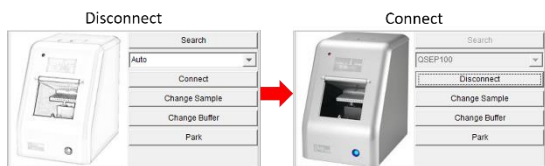
2. Double click the icon *Q-Analyzer* for Qsep100.



3. *Q-Analyzer* for Qsep₁₀₀ software user interface:



4. Click "Connect" to link the instrument.



Packing list of Cartridge Kit

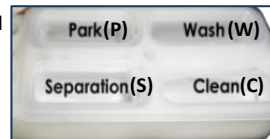
- Cartridges
- Alignment Marker
- Mineral Oil
- Dilution Buffer
- Separation Buffer
- Buffer Tray
- Droppers
- 0.2 ml tubes



5. Buffer and Alignment Marker preparation:

5-1. Add 1X Separation Buffer into "S" well and add diH₂O into the others.

* Buffer height should reach the groove of wells.



5-2. Alignment Marker preparation:

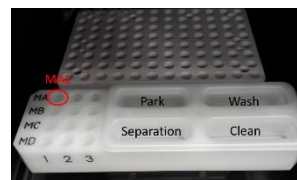
Add ≥ 20 μl Alignment Marker (20 bp & 1000 bp, C109100) into the 0.2 ml tube, and then add 10 μl "Mineral Oil" on top of it.

6. Click "Change Buffer".



7. Place Alignment Marker at MA-1 position and the buffer tray on the tray holder.

For other Alignment Marker sizes, please place them in corresponding positions.



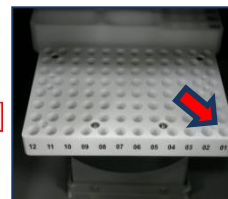
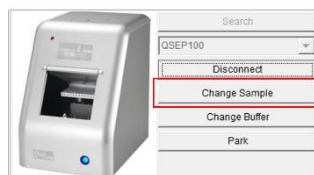
* Make sure the buffer tray has been placed correctly on the holder.
* Centrifuge the Alignment Marker to the bottom of the tube and make sure no air bubble appears.

8. Hold the tray holder and use the thumb to press the Alignment Marker tube tightly down into the well.



9. Click "Change Sample" and place the samples (≥ 20 μl).

* Centrifuge the samples to the bottom of the tubes and make sure no air bubble appears.



10. Unpack Cartridge:

Please follow the steps of "Unpacking Guide" in the cartridge box.

11. Open the cartridge door and insert the cartridge with guiding groove facing the front.

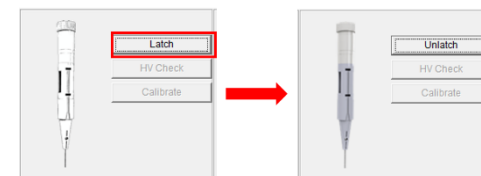


12. Close the cartridge door.

* Press the door and make sure to hear the squeeze sound.



13. Click "Latch".



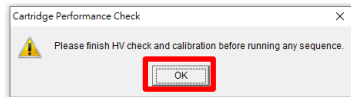
Cartridge information will be presented on the main window after the cartridge is latched.

Project Information	
User Type	Basic
Project Directory	C:\Users\Alice-ThinkPC\Q-Analyzer for Qsep1R...
Cartridge Information	
Cartridge Number	S2-O-210323-2
Expiration Date	2021-Sep-18
Runs Left	192
Last Run Date	2021-Mar-25
Description	Standard cartridge

13-1. New Cartridge Calibration:

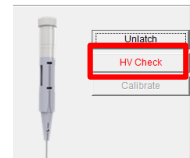
New cartridge needs to be calibrated before use.
Please proceed with the following steps.

1. Click "OK".



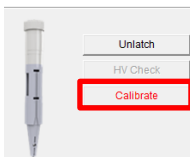
2. Click "HV Check".

* The storage and transportation condition may influence the gel-matrix and cause unstable current. Check current and see if it is stable or not. After HV Check, if the current is still unstable, please repeat this step 2-3 times.



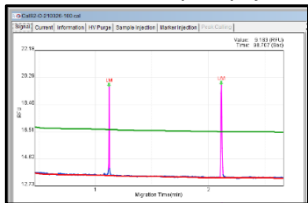
3. Click "Calibrate".

* Make sure the Alignment Marker has been placed in correct position.



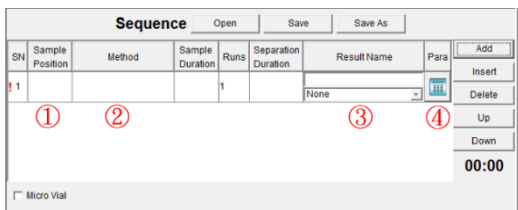
During Calibration

Software will recognize peaks from Alignment Marker signal. **DO NOT use Size Marker or DNA sample to perform "Calibrate".**

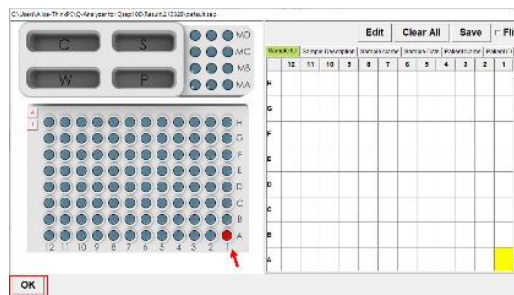


• For troubleshooting, please refer to cartridge unpacking guide for more details.

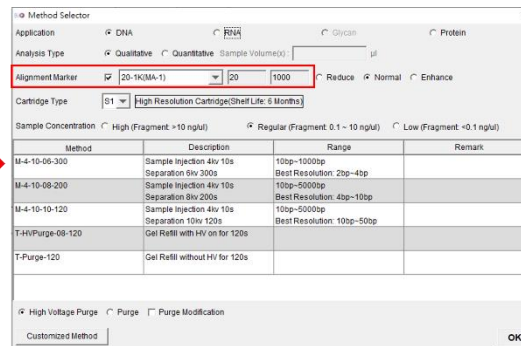
14. Click on the blank column and designate ① the sample locations, ② test method, sample duration, runs, ③ result name and ④ Para by following steps 14-1, 14-2, 14-3 and 14-4.



14-1. Click "Sample Position" and mark the position of sample on the plate and then press "OK".

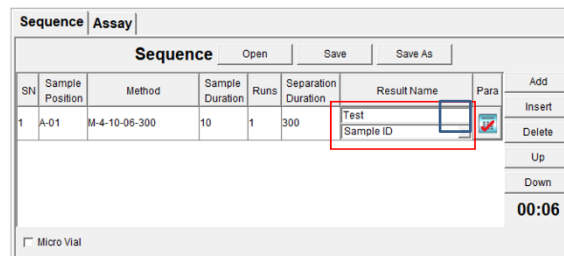


14-2. Click "Method" to select the analysis method.

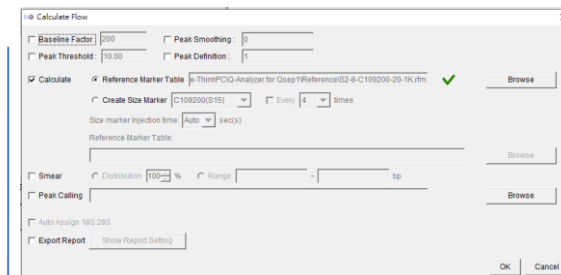


* If you want to analyze the samples with Alignment Marker, please choose the appropriate Alignment Marker and then place it on the corresponding position. (Check ✓ the box)

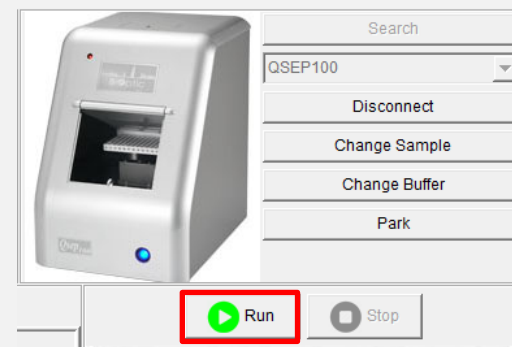
14-3. Enter the result name.



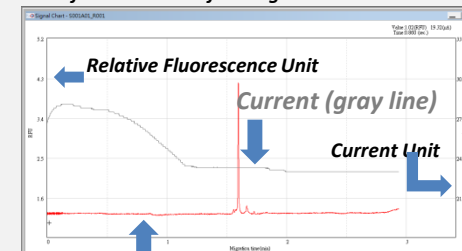
14-4. Click the icon "Para" and set the parameters. (Baseline Factor, Peak Threshold, Calculate, etc.)



15. Click "Run" to start the analysis.



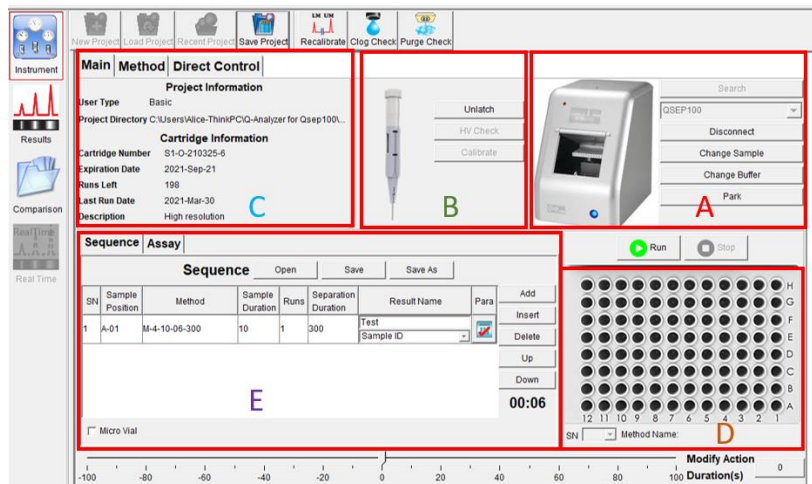
Brief introduction of the Signal Chart:



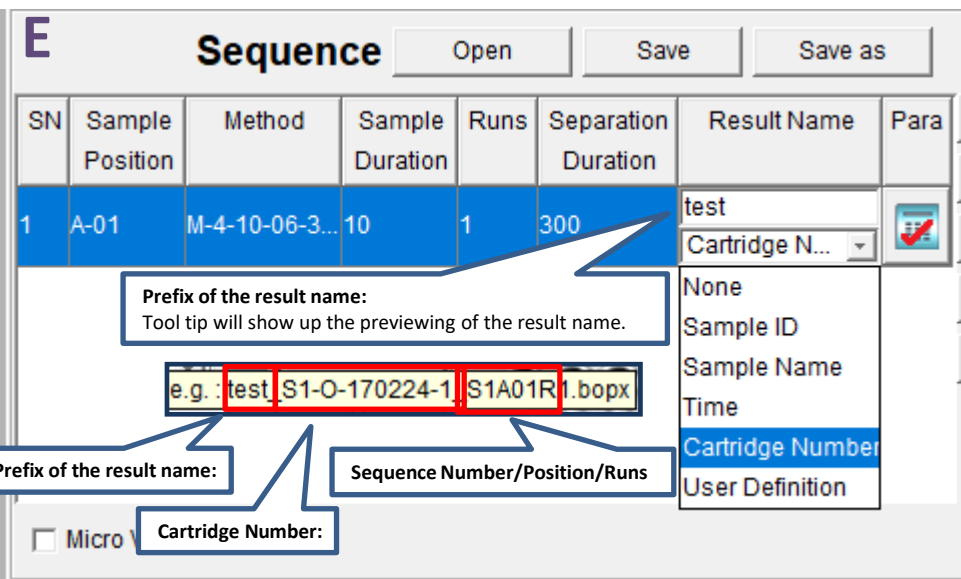
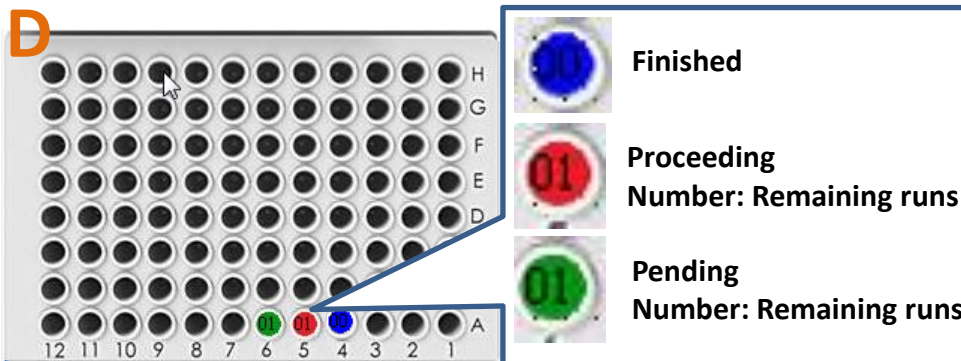
Fluorescence Intensity (red line)

Please refer to operation manual for more details.

Introduction of the Control Panel



- A:** System Control
- B:** Cartridge Control
- C:** Information Area
- D:** Testing Status
- E:** Testing Sequence



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