Operation Quick Start

Document No.: F0016
Ver.: C-20190726

1. Ensure the SD card is properly plugged in the socket (Fig. 1 and 2).

*SD card needs to be plugged-in before power on. The SD card CAN NOT be initialized with hot plugging.

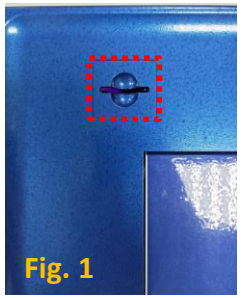


Fig. 1


Fig. 2

2. Connect the air tube.

3. Plug the power cord (labeled Qsep$_1$)

4. Switch on Qsep$_1$, the LED lights (multiple color light) (Fig. 3). Wait 25 seconds for the instrument and Wi-Fi initialization, and the green LED will start flashing (Fig. 4).

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

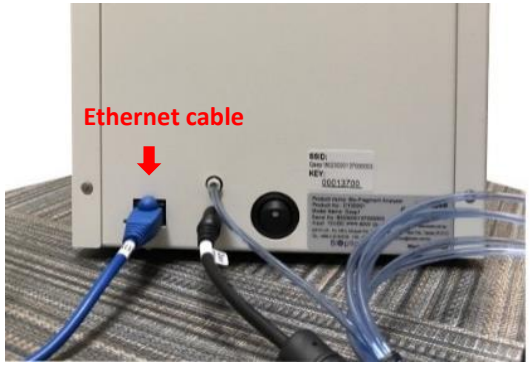
Fig. 3

Fig. 4

*The green flashing LED shows the instrument is successfully ready for connection. If not, please repeat the step 4.

Ethernet cable connection:

refer to step 5 on Page 2



Wi-Fi connection: follow the steps below to connect with Qsep$_1$

- Check if the AP source is available from your Wi-Fi network in the computer (Fig. 5).

Fig. 5

- Find the SSID named with "Qsep1+instrument ID (16 digits) " and click "Connect" (Fig. 6)

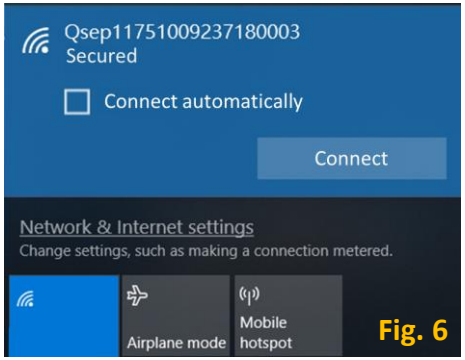


Fig. 6

- Enter the password:
The password will show in the sticker which is behind the instrument. It is the same as the middle 8 digits of instrument serial number (same as SSID name) by blinding the prefixal "Qsep1" (Fig. 7).

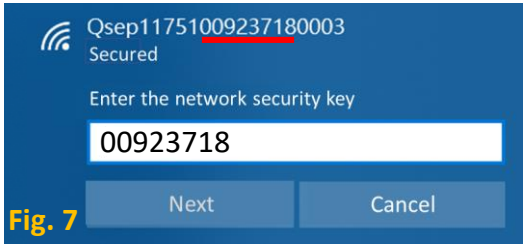


Fig. 7

*If your computer can't find the SSID of Qsep$_1$, please keep the distance between Qsep$_1$ and the computer within 10 meterS and try again from the step 4.

*If you can not connect with Qsep$_1$

- Please check the wi-fi IP assignment is "Automatic (DHCP)"
- Allow Q-Analyzer pass through firewall or turn off the firewall

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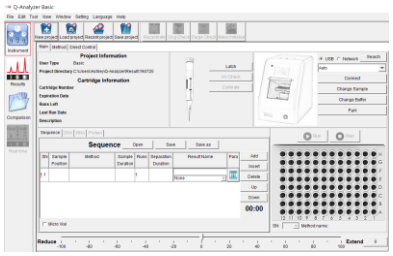
5. Check the LED status.

6. Double click the *Q-Analyzer*.

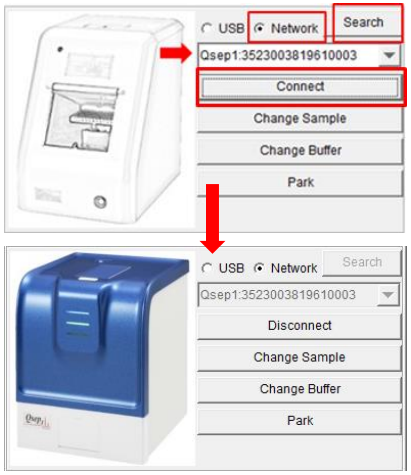
7. *Q-Analyzer* user interface:



7-1. Select "Network" mode and click "Search"
***After "Search" the instrument ID will display**

***Please confirm the instrument ID is the connected instrument**

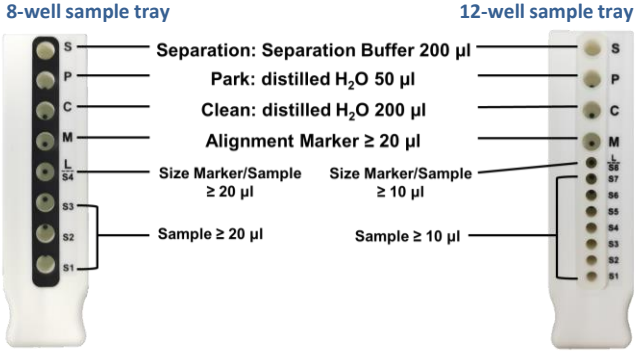
7-2. Click "Connect", the image will switch to *Qsep$_1$* when it's connected



Packing List of Cartridge Kit (Cat. C105200)

Cartridges
Alignment maker
Separation buffer
Dilution buffer
Mineral oil
Buffer tray
Dropper
Tubes for Alignment Marker

8. Prepare buffer and alignment marker in 0.2ml PCR tubes and allocate at the corresponding position on the sample tray



***For 12-well sample tray, user needs to use 0.1ml tube (C104252) for sample and size marker**

***S/P/C well can only place 0.2ml PCR tubes**

***Make sure no air bubble appears in each tube**

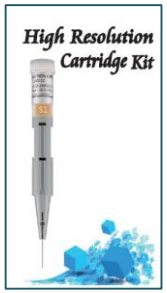
9. Click "Change Sample" or "Change Buffer", the sample door will open automatically.

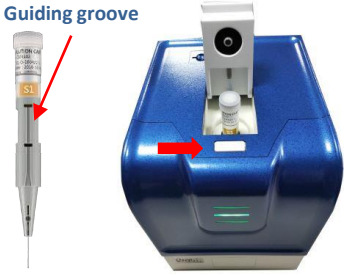
10. Slide the buffer tray into the instrument. Make sure sample tray is pushed to the end

11. Click "Park", the sample tray move into instrument

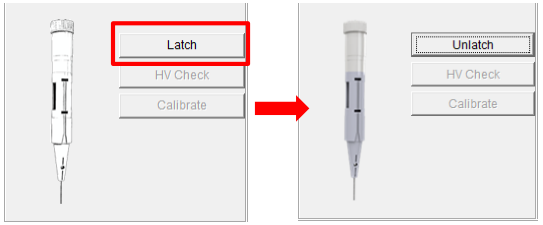
12. Open the cartridge door by pressing the white button and insert cartridge (guiding groove facing front).

***Please follow cartridge unpacking guide to unpack the cartridge before using**





13. Close the cartridge door and click "Latch".



***The cartridge information will be displayed after latched.**

Project Information

User Type	Basic
Project Directory	C:\Users\Ashley\Q-Analyzer\Result\190726

Cartridge Information

Cartridge Number	S1-O-190712-4
Expiration Date	2020-Jan-08
Runs Left	37
Last Run Date	2019-Jul-25
Description	High resolution

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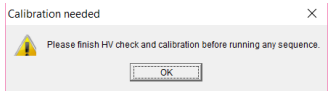
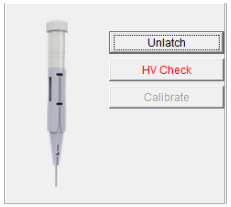
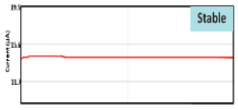
14. Cartridge Calibration:
New cartridge needS to be calibrated before using.
Please proceed with the following steps.

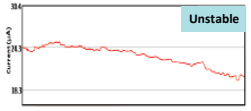


14-1. Click "HV Check".



*** The storage and transportation condition may influence the Gel-matrix and cause unstable current. During HV Check, check current (gray line) and see if it's stable. if current is unstable, please repeat this step 2-3 times.**

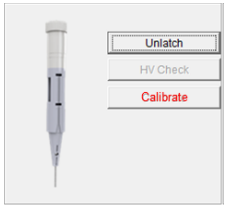




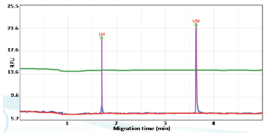
During the "HV Check", the last LED will show red light

Blue→ SD card
green→ WiFi connectable
red→ HV check

14-2. Click "Calibrate".

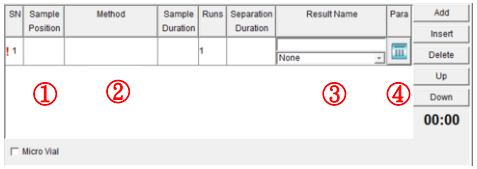


***The "Calibrate" button will only display after HV check passed.**

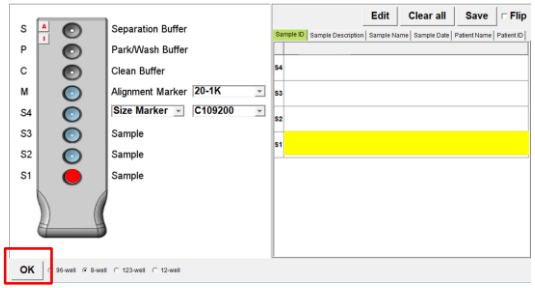


*** For troubleshooting, please refer to cartridge unpacking guide for details.**

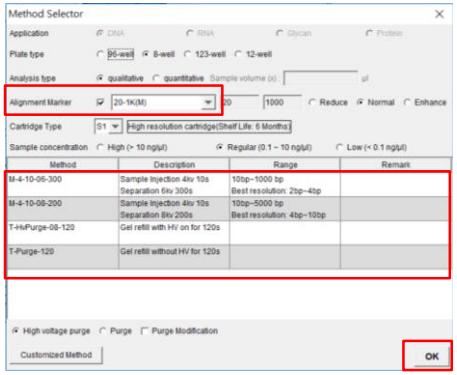
15. To analyze samples, click on the blank column and designate the sample locations, test method, runs and result name followed steps 15-1 to 15-4



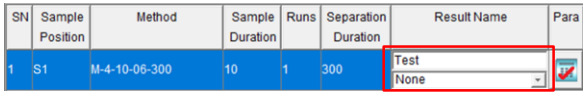
15-1. Click the "Sample Position", mark the position of sample on the plate and then click "OK".



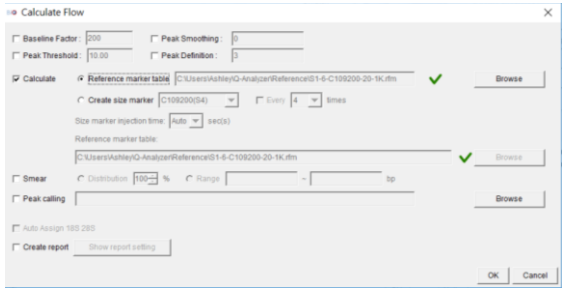
15-2. Click on "Method" to select a proper method for your application.



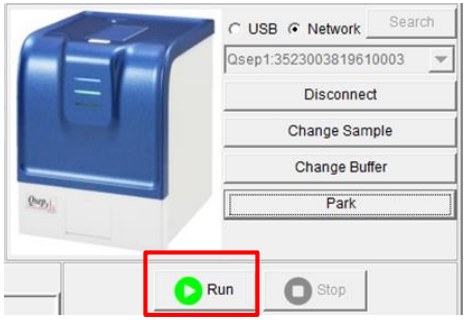
15-3. Click on "Result Name " and enter the name of result files.



15-4. Click the icon "Para" and set the parameters. (Baseline Factor, Peak Threshold, Calculate…etc.).



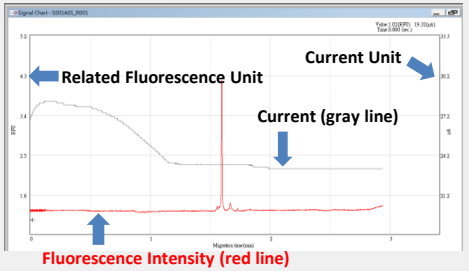
16. Click "Run" to start the process.



During Calibration

Please check the Alignment Marker has been located at correct position.
Software will recognize two peaks from Alignment Marker signal. DO NOT use Size Marker or DNA sample doing "Calibrate".

Brief introduction of the Signal Chart:



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