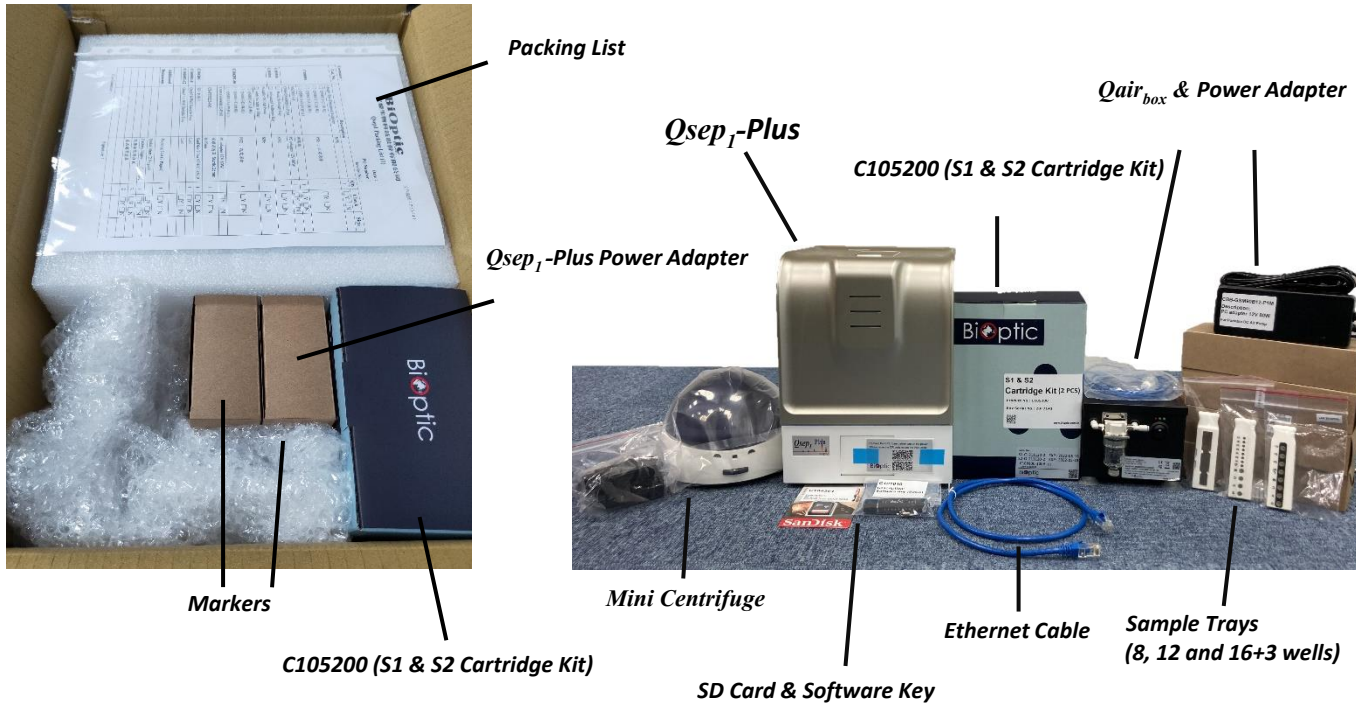


Getting started with Qsep₁-Plus



Install Qsep₁-Plus

1. Unpack Qair_{box} and tighten the air tube with connector
2. Plug power cord into Qair_{box}
(* Please check the Qair_{box} label on the power cord)



3. Remove the protecting foam before turning on Qsep₁-Plus



* Scan the QR code for instruction video

4. Plug the power cord, Ethernet cable and the other side of the air tube into Qsep₁-Plus and turn on the Qair_{box} (Please make sure the label on the power cord is Qsep₁)



Your Qsep₁-Plus is READY TO USE



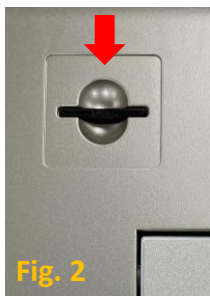
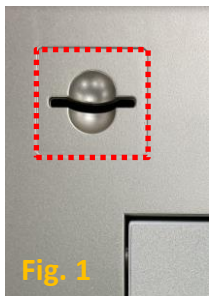
5. Connect the other side of the Ethernet cable to the operation computer.



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

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

*SD card needs to be inserted before powering on. The SD card CANNOT be initialized with hot plugging.



2. Connect the air tube.

3. Plug the power cord (labeled *Qsep₁-Plus*)

4. Switch on *Qsep₁-Plus*, the LED lights up (multiple color light) (Fig. 3). Wait for 25 seconds until the instrument and Wi-Fi initialized, 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

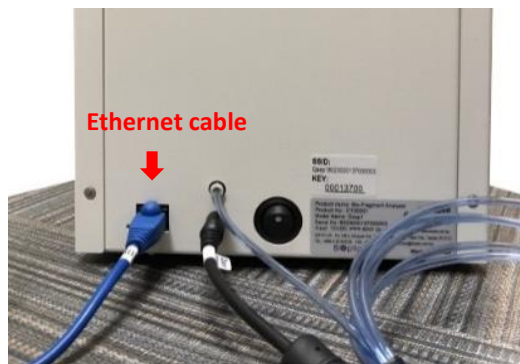


Fig. 4

*The green flashing LED shows the instrument is connected. 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 *Qsep₁-Plus*



- 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)

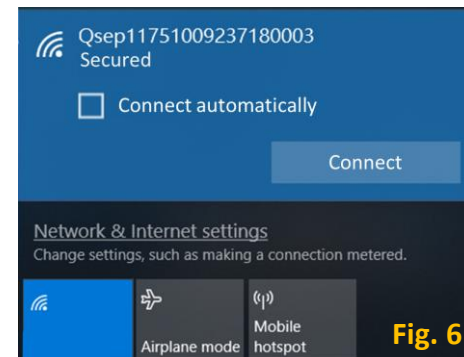


Fig. 6

- 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).

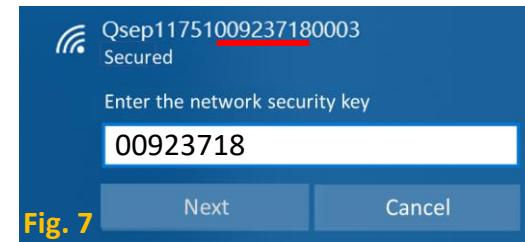


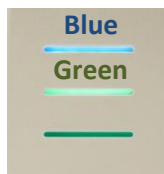
Fig. 7

*If the computer cannot find the SSID of *Qsep₁-Plus*, keep the distance between *Qsep₁-Plus* and the computer within 10 meters and start from step 4 again.

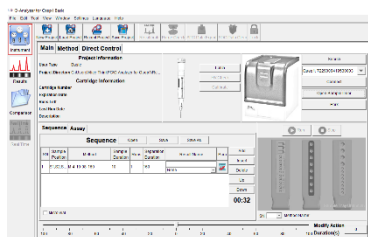
*If the computer cannot connect with *Qsep₁-Plus*

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

- Check the LED status.
- Double click the icon of Q-Analyzer.



- Q-Analyzer user interface:



- Click "Search", and the instrument ID will display.
***Please confirm the instrument ID is the connected with instrument**

- Click "Connect", the Qsep₁-Plus image will change the color when it's connected.

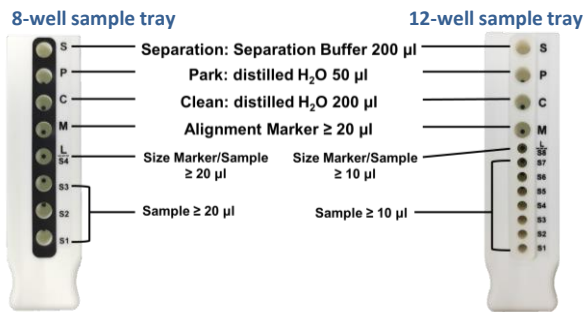


Packing List of Cartridge Kit (Cat. C105200)



- Cartridges
- Alignment Maker
- Separation Buffer
- Dilution Buffer
- Mineral Oil
- Buffer Tray
- Dropper
- 0.2 ml tubes

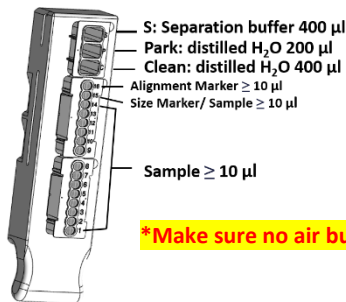
- For 8-well and 12-well sample tray, prepare buffer and Alignment Marker in 0.2ml PCR tubes and allocate at the corresponding position on the sample tray.



- *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**



For 16+3-well sample tray, please use 16+3 Sample Tube (C104254) and follow the instruction below to load the buffers, markers and samples.



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

- Click "Open Sample Door", and the sample door will open automatically.
- Slide the buffer tray into the instrument. Make sure sample tray is pushed to the end.



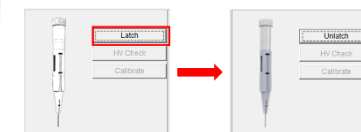
- Click "Park", and the sample tray will move into instrument.
- Open the cartridge door by pressing the white button and insert cartridge (guiding groove facing front).
***Please follow cartridge unpacking guide to unpack the cartridge before using**



Guiding groove



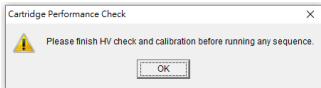
- Close the cartridge door and click "Latch".



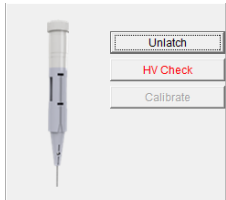
***The cartridge information will be displayed after latch.**

Project Information	
User Type	Basic
Project Directory	C:\Users\Alice-ThinkPC\Q-Analyzer for Qsep1\Re...
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

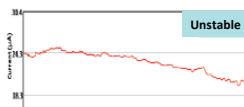
14. Cartridge Calibration:
New cartridge need to be calibrated before use.
Please follow the steps below to proceed.



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.**

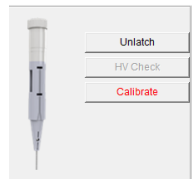


During the "HV Check", the last LED will show red light

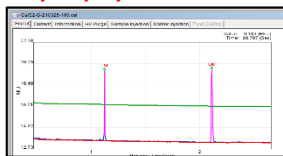


- Blue → SD card
- Green → WiFi connectable
- Red → HV check

14-2. Click "Calibrate".



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

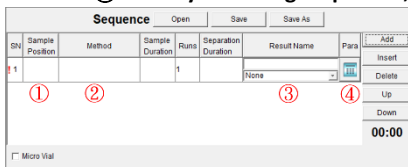


Please check the Alignment Marker has been placed in correct position.

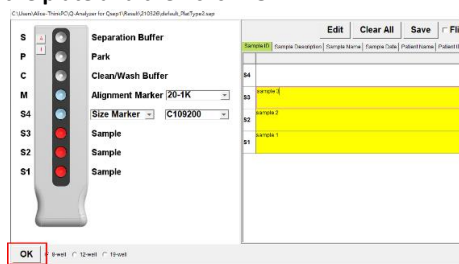
Software will recognize peaks from Alignment Marker signal. **DO NOT** use Size Marker or DNA sample doing "Calibrate".

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

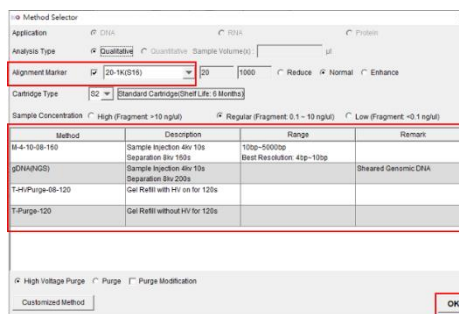
15. Click on the blank column and designate ① the sample locations, ② test method, sample duration, runs, ③ result name and ④ Para by following steps 15-1, 15-2, 15-3 and 15-4.



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



15-2. Click "Method" to select analysis method.

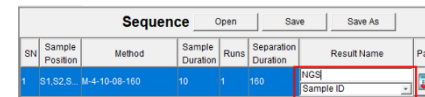


*** If you want to analyze the samples with Alignment Marker, please choose the appropriate Alignment Marker and then place it in the corresponding position. (Check ✓ the box)**

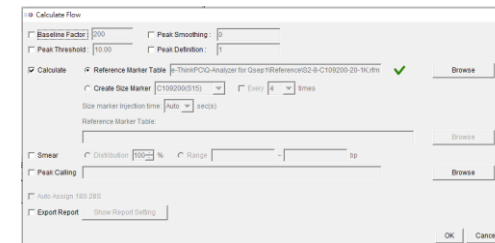
Contact Information:

Company Name: BiOptic Inc.
Office Address: (23141) 5F., No.6, Ln. 130, Minquan Rd., Xindian Dis., New Taipei City, Taiwan
Factory Address: (23141) 4F., No.108-3, Minquan Rd., Xindian Dist., New Taipei City, Taiwan
Tel: +886-2-2218-8726, Fax: +886-2-2218-8727, E-mail: service@bioptic.com.tw

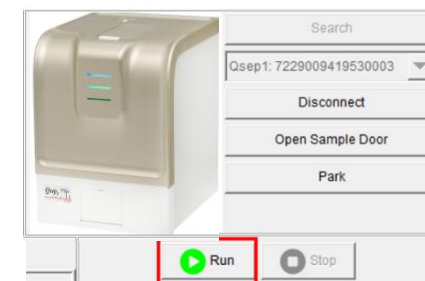
15-3. Click on "Result Name" and enter the name of result files.



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



16. Click "Run" to start the process.



Brief introduction of the Signal Chart:

