

Instruction manual

VWR® 16 SAMPLE PURIFICATION SYSTEM

NA cat. no 77321-876



CE

**UK
CA**

Legal address of Manufacturer

United States

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Country of Origin

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Warning



Any improper operation may cause injury. Please read this manual carefully and operate safely according to the guidelines.



The instrument is a normal indoor instrument which conforms to class I of the GB 4793.1 standard.



This instrument is designed for use in a laboratory environment. The device must be operated by skilled laboratory personnel with appropriate training.



To prevent injury or voiding the warranty, the operator should not attempt to repair the instrument without explicit guidance from VWR. If service is required, please contact VWR service.

Safety Information

Avoiding Electrical Shock

Please follow the guidelines below and read this manual in its entirety to ensure safe operation of the unit.



Before powering on, confirm that the voltage used meets the electrical requirements of the instrument as stated on the rating plate. If the electric cord is damaged, replace it with the same type of cord. Hold the socket firmly before pulling the plug from an outlet. Do not pull the electric cord.



The instrument should be installed in an environment of standard room temperature, low dust, low humidity, and away from direct sunlight, electromagnetic interference, and heat sources. Do not block the vents on the instrument.



Always power off the instrument when you are finished using it. Unplug the power cord and cover the instrument with a cloth or plastic sheet to prevent excessive dust from entering the housing.



Pull the connector plug from the electrical outlet immediately and contact the vendor in the event of:

- Liquid entering the housing.
- Abnormal operation: such as any abnormal sound or smell.
- The instrument is dropped or there is any damage to the housing.
- Any malfunction.

Package Contents

Description	Quantity
VWR 16 Sample Purification System	1
Power Line	1
Power Adapter	1
Logitech Mouse	1
User Manual	1
Short User Manual	1
USB Drive	1
Performance Test Report	1
Aluminum Sample Rack	1

Installation

Required Installation Environment

Environmental Temperature: 5°C ~ 35°C

Relative Humidity: ≤ 70%

Input Voltage: DC 24V, 2A (Adapter CSA, UL, CE marked)

Intended use

For research use only. Not intended for any animal or human therapeutic or diagnostic use.

Product Specifications

Display	4.3-inch color touch screen
Purification Method	Magnetic bead based purification
Sample Volume	50 μ L – 1000 μ L
Throughput	Up to 16 samples
Stability	CV \leq 3%
Extraction Time	10 ~ 60 minutes
Lysis & Elution Temperature	Ambient +5°C – 120°C
Temperature Accuracy	\pm 1°C
Programming Control	Bluetooth-enabled Android device, PC
Program Storage	Store up to 100 programs in internal memory
Communication Ports	USB for mouse, flash drive, and PC connection
Data Transfer	USB flash drive
Consumables	96 deep well plates, 8 place tip combs, 6-well sample vessels (SBS)
UV Sterilization	UV lamp (3W UVC, 253.7 λ)
Magnetic Bead Recovery	> 95%
Internal Lighting	LED lamp
Dimensions	20.8cm x 25.8cm x 31.5cm / 8.2 x 10.1 x 12.4 in.
Weight	7 kg / 15.4 lbs

Description of Buttons and Switches

Front View

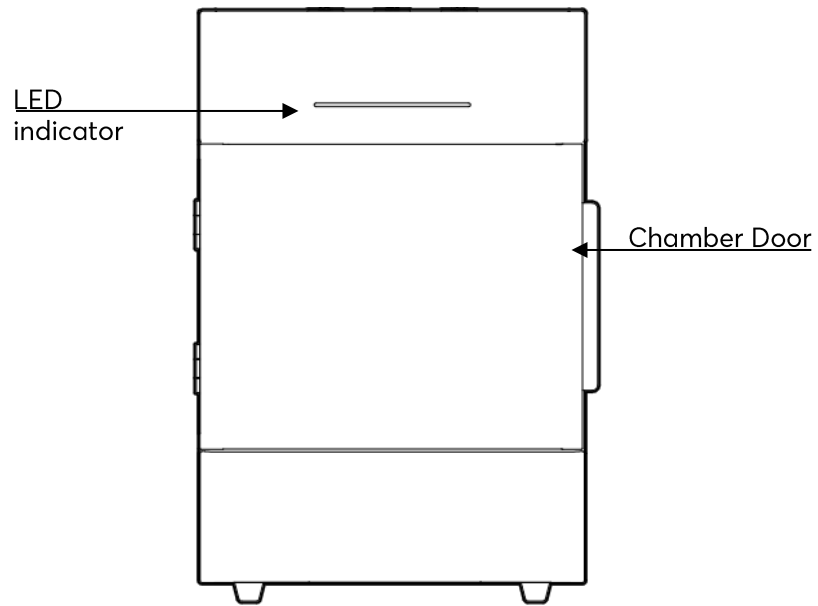


Fig. 1 Front View

Rear View

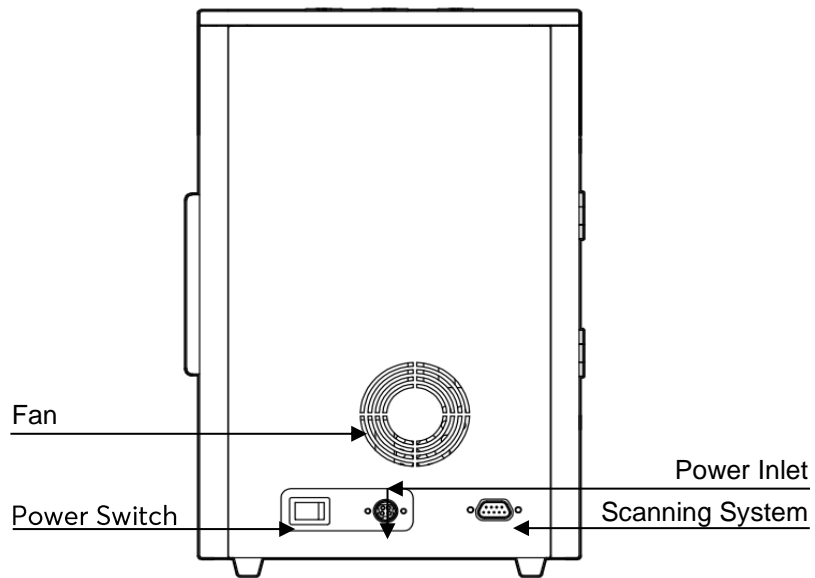


Fig. 2 Rear View

Side View

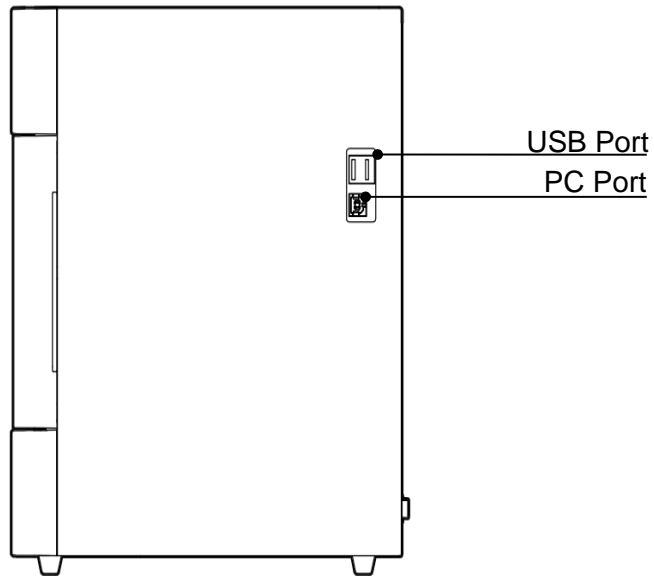
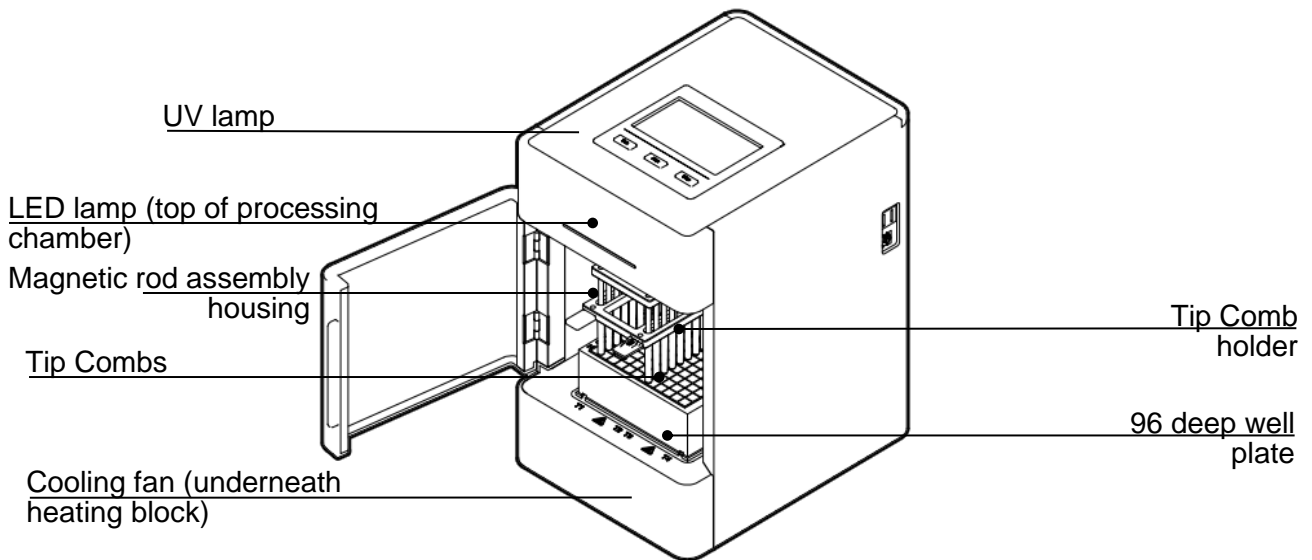


Fig. 3 Side View

Sample Processing Chamber



Control Panel

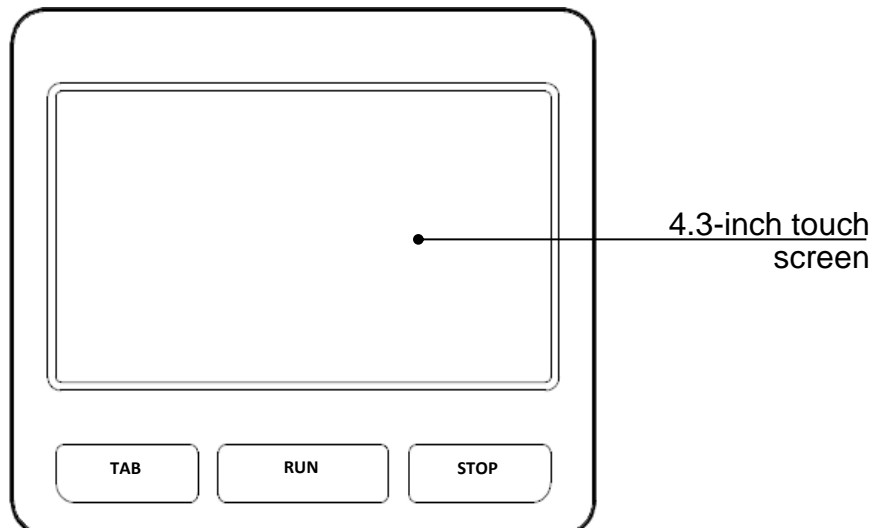


Fig. 4 Control Panel View

Operation

Protocol programming is done using the Android App software which is saved on the included USB flash drive. Protocols are then transferred to the instrument where they are saved in the internal memory and can be selected for operation. For users that do not have an Android device, PC software can also be used for protocol programming. The PC software is also saved on the included USB flash drive.

Android App Installation

Connect the included USB flash drive and the Android device to a computer. On the Android device: Please make sure that downloading from unknown sources is allowed on your "Files" app setting (**Settings** → **Apps & notifications** → **Advanced** → **Special App Access** → **Install Unknown Apps** → **Files** → **Grant permission**), and that "File Transfer" is selected under "USB Preferences" in the device's settings (**Settings** → **Connected Devices** → **USB** → **Use USB for "File Transfer"**). Copy the .APK file from the USB flash drive and transfer it into the downloads folder under the internal storage of the Android device. On the Android device, find the .APK file in the "Files" app under "Downloads", and click the .APK file to install (**Fig. 5**).

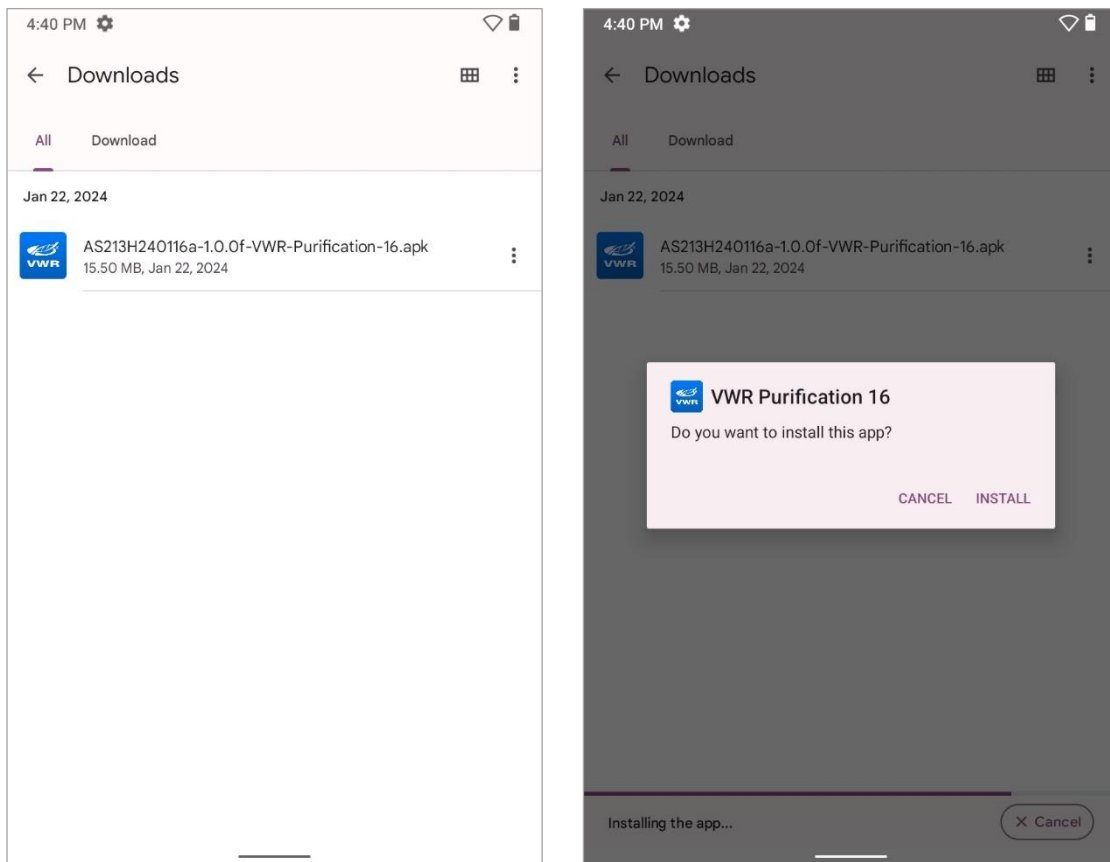






Fig. 5 App Installation

Android App Interface



Icon	Name	Definition
	Protocol select and transmit	Quickly select a protocol for viewing or transmitting to the instrument
	Create new protocol	Create and edit a new protocol
	Acquire protocol from instrument	Download protocols from instrument to the app
	Instrument Bluetooth connection	Connect the Android device to the instrument via Bluetooth

After the app has been installed and the startup has completed, the main interface will be displayed. Four main functions are available: **Protocol select and transmit**, **Create new protocol**, **Acquire protocol from instrument**, and **Instrument Bluetooth Connection**.

Transmitting Programs

Click the “Protocol select and transmit” button on the main interface. This interface offers options for local creation and instrument acquisition (Fig. 6).

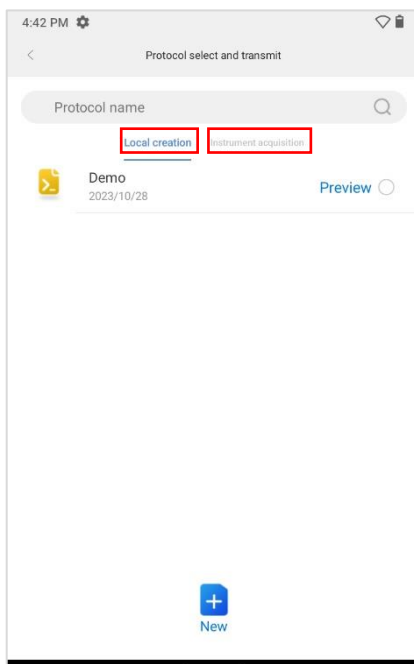



Fig. 6: Protocol Select and Transmit Interface

Local Creation: Shows a list of protocols saved in the memory on the Android device. Or click the “ icon to create and edit a new protocol. Protocols can be selected for modification.

Local Creation:

Select a protocol or multiple protocols (Fig. 7, Fig. 8). 4 buttons will appear at the bottom of the screen: Transmit, Delete, Display QR Code, and Save as.

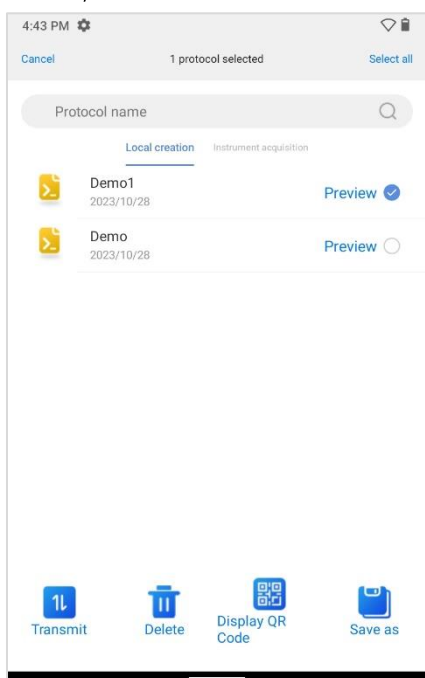


Fig 7. One Protocol selected

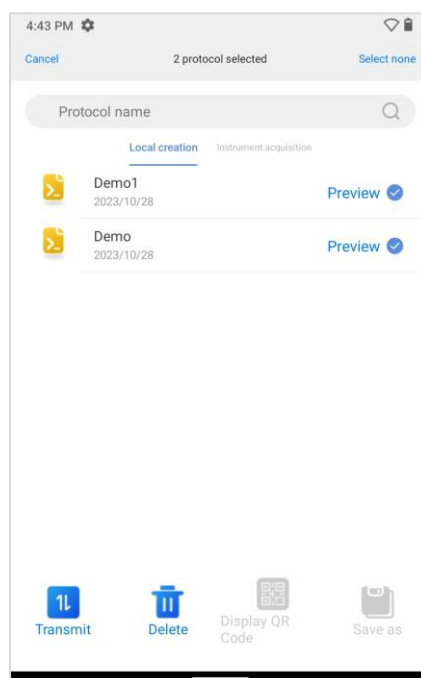


Fig 8. Multiple protocols selected

Transmit: Transfer the selected protocols from the app to the instrument.

Delete: Remove protocols from app memory.

Display QR Code: Generate the protocol specific QR code. Use the included handheld scanner to instantly transfer the protocol to the instrument. Press "Save" when the code is displayed to save the code to the photo gallery on the Android device (Fig. 9).

Save as: The selected protocol can be saved under a new name

Note: "Display QR Code" and "Save as" buttons can only be used when only 1 protocol is selected. When multiple protocols are selected, only Transmit and Delete can be performed.



Fig 9. QR Codes

Preview: Select the blue "Preview" button to the right of a protocol to see the protocol steps with details (Fig. 10).

order	Step name	Position	Volume	Mix time	Mix Speed	Dry time
1	Bind	1	400uL	5.0min	7	/
2	Wash	2	600uL	5.0min	5	0.0min
3	wash2	3	600uL	5.0min	5	1.0min
4	Elute	6	100uL	5.0min	5	/
5	DiscardBeads	2	600uL	0.1min	5	/

Fig 10. Preview Protocol

New Protocol

Click the "New" icon on the "Protocol select and transmit" interface to create a new protocol (Fig. 11). Set the name of the protocol. The default protocol name is the current time. For example, the current time is 14:46, so the first protocol is 14461; a second protocol created within the same minute would be named 14462.

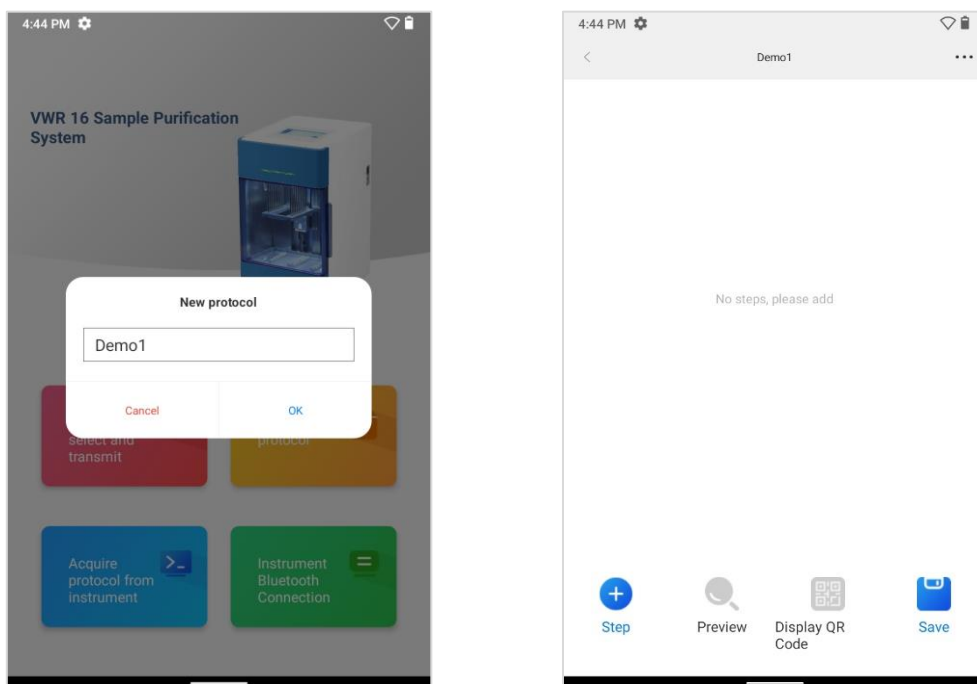


Fig 11. Create & name a new protocol

After the new protocol is named, the interface will allow for the addition of new steps (Fig. 12). Users can add, delete, or copy a step. After the protocol steps have been set, users can preview, edit, and rearrange protocol steps.

Note: A new protocol can also be created from the "Create new protocol" icon on the app main interface.

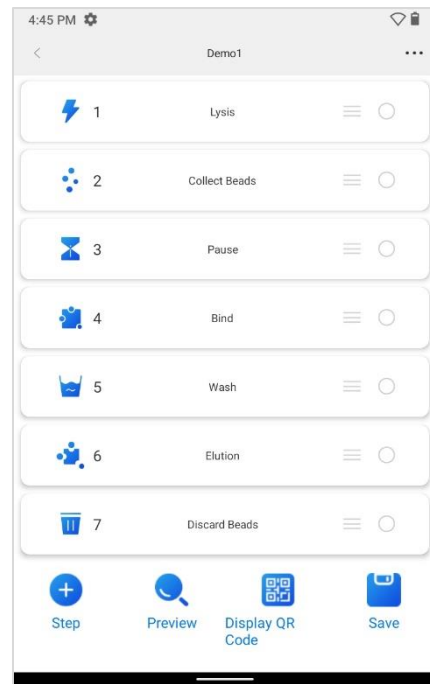
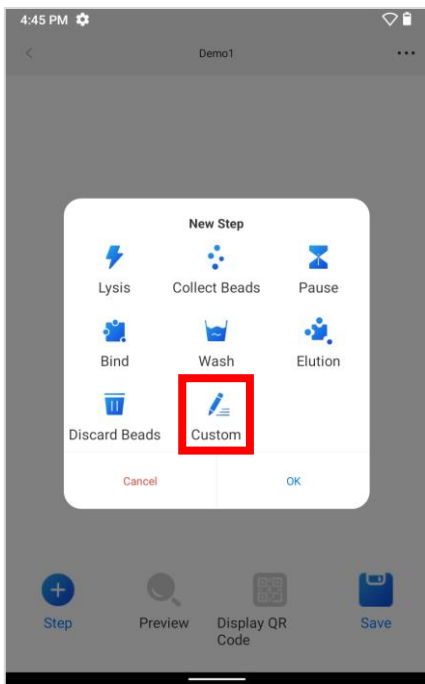


Fig 12. Add a new protocol step

Add step: To create a new protocol step, users can choose to either add the preset default steps (Lysis, Collect Beads, Pause, etc.) or add a “Custom” step (Fig. 12).

Preview: View details of a protocol after its steps have been set (Fig. 10).

Delete or copy: Select the circle to the right of a protocol step to delete or copy that step. Users can select single or multiple steps for deleting or copying (Fig. 13). When deleting a step, a prompt box will be displayed to confirm the step deletion.

Move: Adjusts the sequence of steps. Hold and drag the “Move” icon to adjust the sequence of steps (Fig. 14).

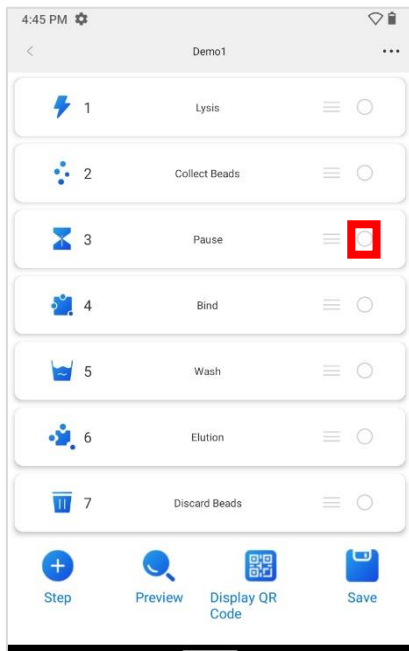


Fig 13. Select to Delete or Copy steps

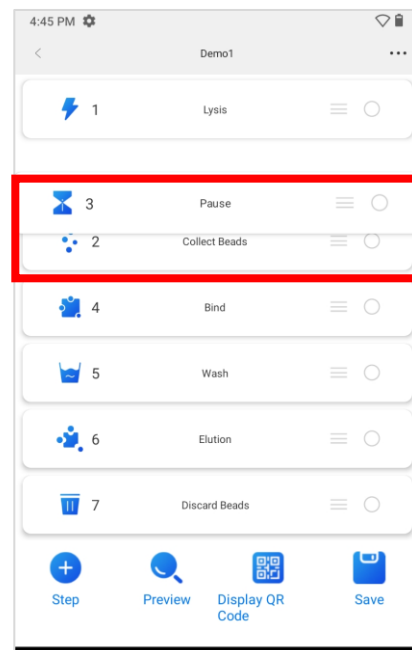







Fig 14. Move the sequence of steps

Icon	Name	Definition
	Move	Hold and drag to rearrange the steps of the current protocol.
	Select a step	Select step for copying or deleting.
	Step	Add a new step.
	Display QR Code	Generates the protocol specific QR code.
	Preview	Preview the step settings of the current protocol.

Step Parameters Settings

Select a step from the list of steps of a protocol (press the middle of the bar) to enter the parameter settings interface (Fig. 15). At the top, the current sample-well position is shown (position 1-6). To change the position of the step, highlight another position number in orange. Parameters can be adjusted for "General", "Magnet", and "Advanced" settings (Fig. 16, Fig. 17). Note that in the "General" parameter settings interface, the temperature can only be adjusted if position 1 or 6 is selected; these are the locations of the heating block and typically correspond to lysis and elution steps.

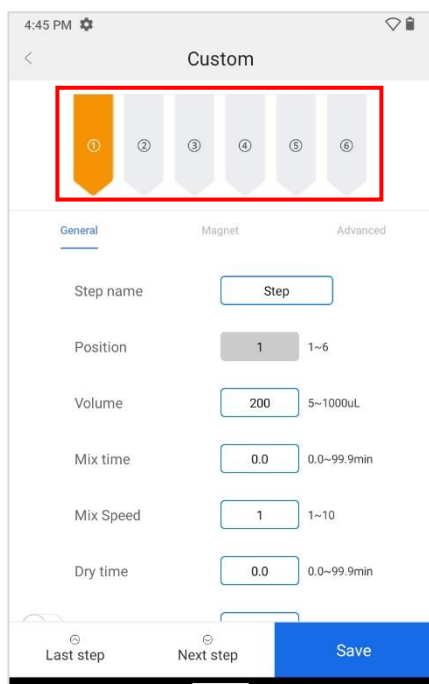


Fig 15. General Parameters

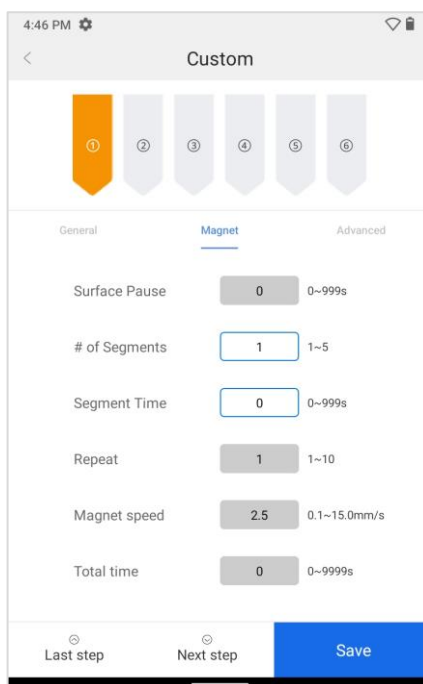


Fig 16. Magnet Parameters

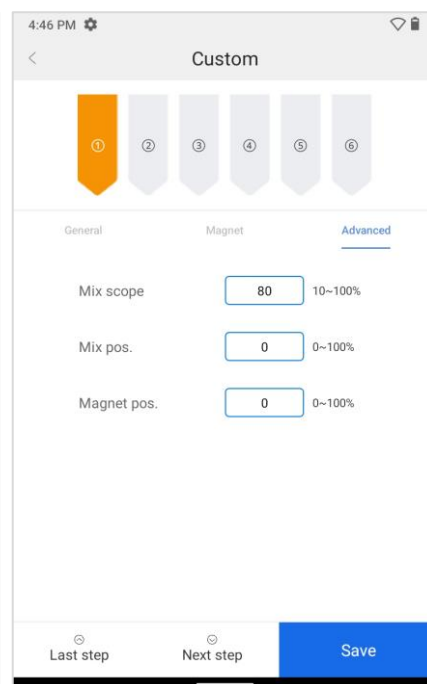


Fig 17. Advanced Parameters

General Parameter Settings	Definition
Step Name	Name of step. The default steps cannot be renamed. Only a custom step can have a custom name. Custom

	step parameters are shown in Fig. 25.
Position	The position site corresponds to columns of the plate (position 1 = column 1 on plate), the positions for default steps are set as follows: 1 for lysis, 2 for collect beads, 1 for bind, 3 for wash, 6 for elution, and 3 for discard.
Volume	Set the volume of the corresponding position (50-1000µL)
Mix time	Set the mix time. Range 0.0 and 99.9min.
Mix speed	Set the mix speed. Range of 1-10.
Dry time	Set dry time. Range 0.0-99.9min.
Temperature	Set the temperature of the in the range of 37 - 120°C, Temperature can only be set for positions 1 and 6. Default temperature setting is "Off".
Magnet Parameter Settings	Definition
Surface Pause	The pause time after bead collection when magnetic rods & tip combs are above the liquid surface level to prevent loss of beads due to breaking the surface tension. Range 0-999s.
# of Segments	To maximize the collection of the magnetic beads after mixing, up to 5 segment positions can be selected.
Segment time	Time spent at each segment position. Range 0-999s. If segment time is set to 0, the other magnet parameter settings cannot be adjusted, and there will be no magnetization in the step.
Repeat	Repeat the full cycle of set magnetization parameters. Range 1-10.
Magnet speed	Set magnet speed. Range 0.1-15.0mm/s.
Total time	The estimated total time for the magnetic binding step process. The time remaining of each step is displayed on the control panel during a protocol run. Range 0-9999s
Advanced Parameter Settings	Definition
Mix scope	Set mix scope. Range 10-100%, the default is 80%.
Mix pos.	Set mix position. Range 0-100%, the default is 0%.
Magnet pos.	Set magnet position. Range 0-100%, the default is 0%.

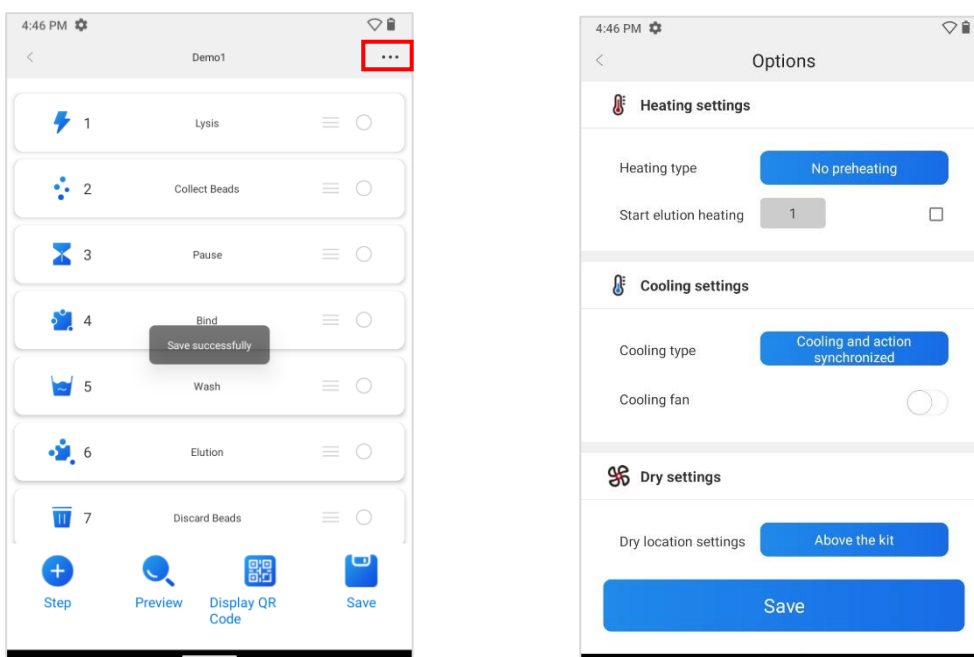


Fig 18. Option settings

Note: Click "Save" to save the current step setting parameters.

Option settings

Select the () icon on the top right of the protocol step interface to enter the options setting interface.

Click "save" to keep the adjusted parameters (Fig. 18).

Step	Option	Definition	
Heating settings	Preheating	When the protocol reaches a step that requires heating, the heating block will heat to the required temperature first, then the tip comb movement will begin.	
	No Preheating	Heating and tip comb movement are carried out synchronously	
	Start elution heating	Set the heating block to begin heating 1, 2, or 3 steps before elution.	
Cooling settings	Action after cooling	When the protocol reaches a step that requires cooling, the cooling fan will cool to the required temperature first, then the tip comb movement will begin.	
	Cooling and action synchronized	Cooling fan for the heating block and tip comb movement are carried out synchronously	
	Cooling fan	Instrument cooling fan; optional, off by default	
Dry settings	Above the kit	After bead collection, the tip combs will pause at the top of the plate.	The default drying position is on the top of the kit.
	Specify location	After bead collection, the tip combs will pause at a specified position above the liquid surface level.	
Action	Horizontal velocity (1-	Set horizontal movement speed of magnetic rods &	

parameter	100mm/s)	tip combs, default 15mm/s
	Vertical velocity of magnetic rods (1-100mm/s)	Set vertical movement speed of magnetic rods, default 35mm/s
	Vertical velocity of tip combs (1-100mm/s)	Set vertical movement speed of tip combs, default 35mm/s

Create New Protocol Interface

Select the "Create new protocol" icon on the app main interface to quickly create a new protocol. The relevant settings are identical to those under "Local Creation" in the "Protocol Select and Transmit" interface (Fig. 19).

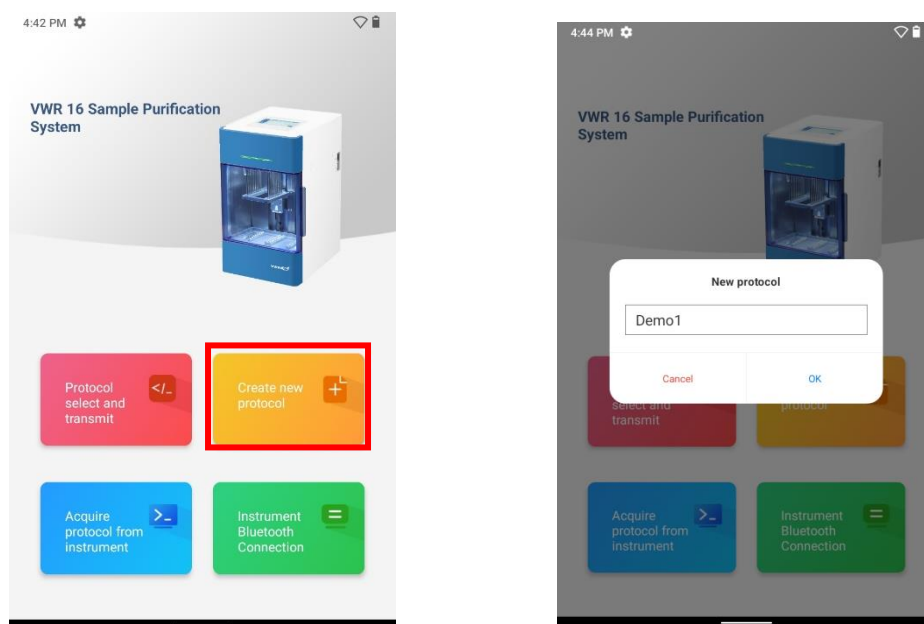


Fig 19. Creating a New Protocol

Acquire Protocol from Instrument Interface

Before acquiring a protocol from the instrument onto the app, the Android device must be connected to the instrument via Bluetooth. After establishing a Bluetooth connection, the app allows viewing and downloading the saved protocols and the running logs from the instrument. The downloaded protocols/logs can be viewed and edited in the "Acquire protocol from instrument" interface.

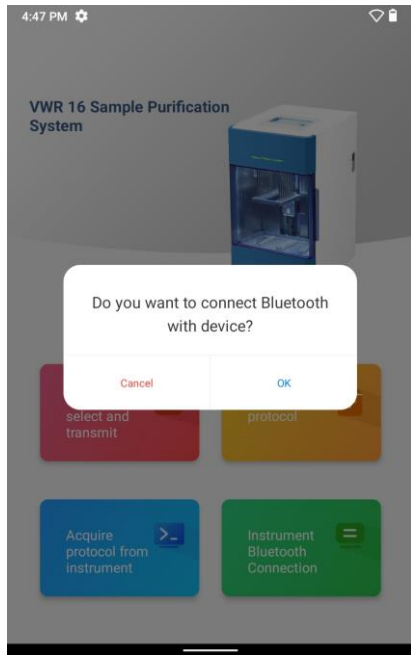


Fig 20. Connecting to Bluetooth

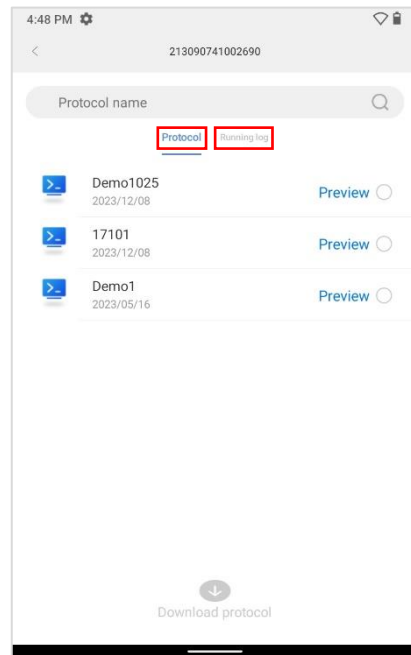
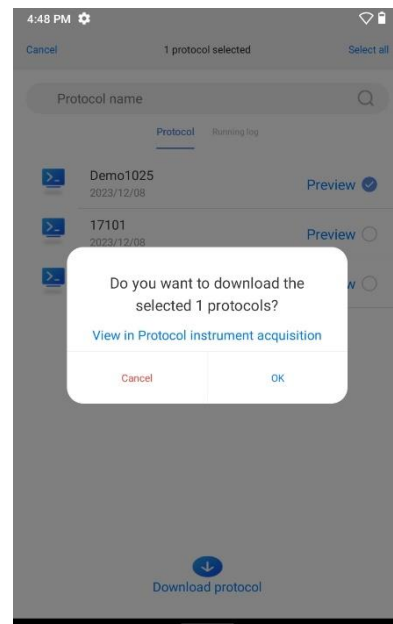


Fig 21. List of Protocols

Fig. 21 displays the current protocols saved in the instrument's internal memory. Users can select protocols to download onto the app (Fig. 22).



Fig 22. Acquiring Protocol From Instrument → App



Running log

Select the "Running log" tab and a log to download onto the app. Click the "Download running log" button to download the log (Fig. 33). After downloading the log, click to preview it. The log is transmitted to the app in a .CSV format. The app will convert the .CSV to a .PDF format for viewing it (Fig. 23, Fig. 24).

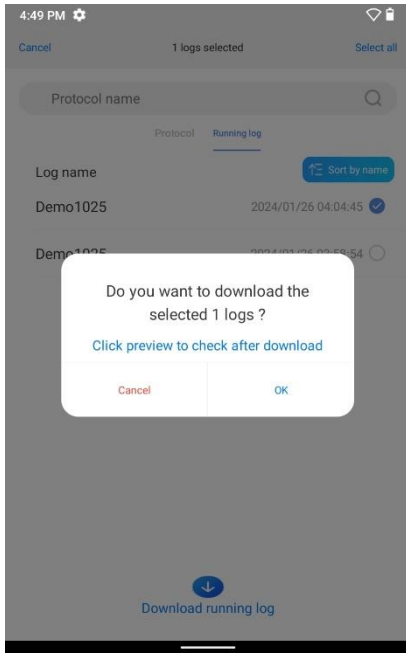


Fig 23. Download Log



Fig 24. Log Preview

Instrument Bluetooth Connection Interface

When Bluetooth is turned on for the Android device, the app can directly open the "Instrument Bluetooth Connection" interface. The "My instruments" section displays each instrument the Android device has connected to. The right side of the screen will indicate which instrument the app is currently connected to. Click one of the instruments to establish a connection between the app and the instrument (Fig. 25).

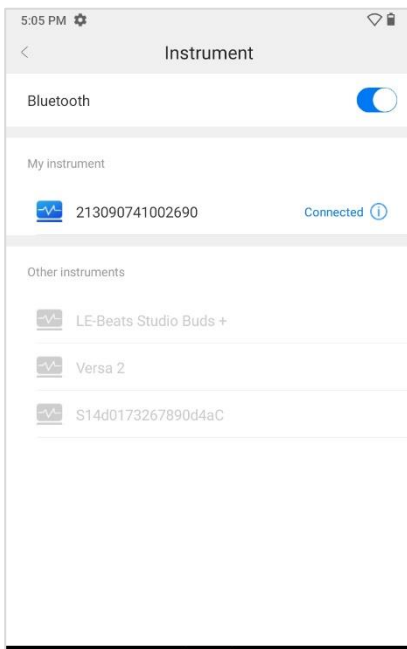


Fig 25. Bluetooth Connection

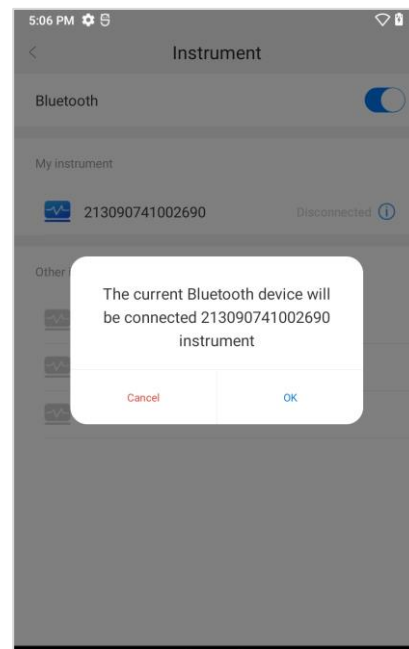



Fig 26. Connect via Bluetooth

Note: The default Bluetooth ID of the instrument is its serial number.

Modify Instrument Information

In the "Instrument Bluetooth Connection" interface. Select the "  " icon to rename the instrument's Bluetooth ID or to disconnect the Bluetooth connection. Click "Disconnect" to disconnect the Bluetooth connection between the Android device and the instrument. Click "Delete this instrument" to remove the selected instrument from the "My instrument" section.

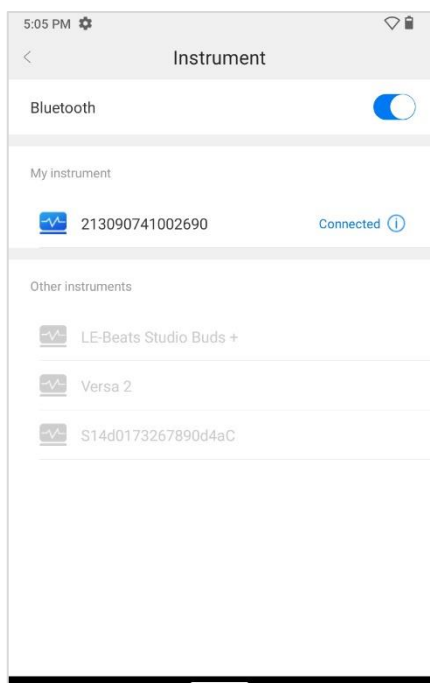


Fig 27. Modify Instrument Information

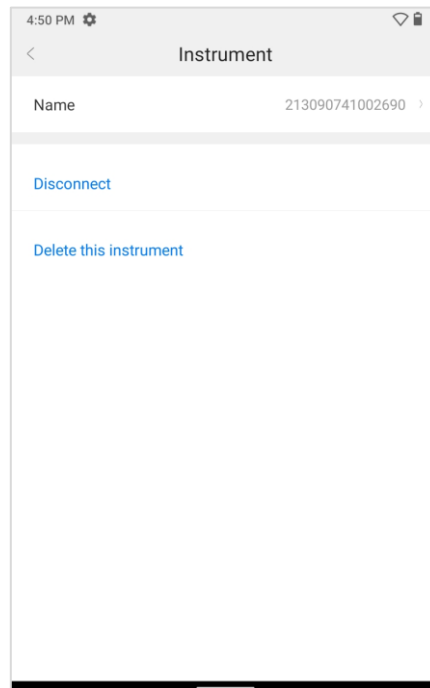


Fig 28. View Bluetooth Information

Instrument Software

Start-up Interface

Upon powering on the instrument, the start-up screen will be displayed (Fig. 29).



Fig 29. Start-up Display

Run Interface

Select "Run" to enter the Run interface. This interface is divided into two views: Shortcut View and List View. (Fig. 30, Fig. 31).

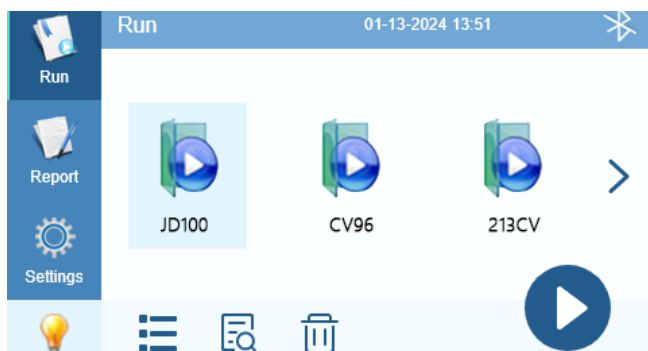


Fig 30. Shortcut View

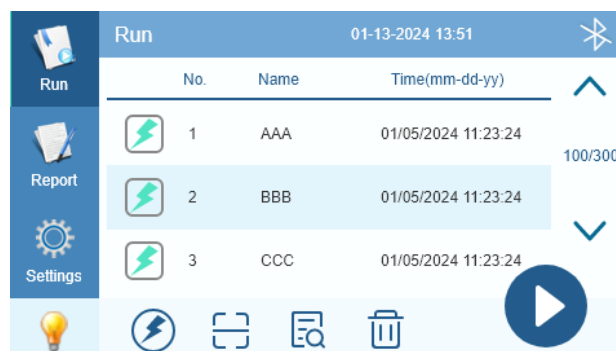




Fig 31. List View

Press the icons:  or  to toggle between views.

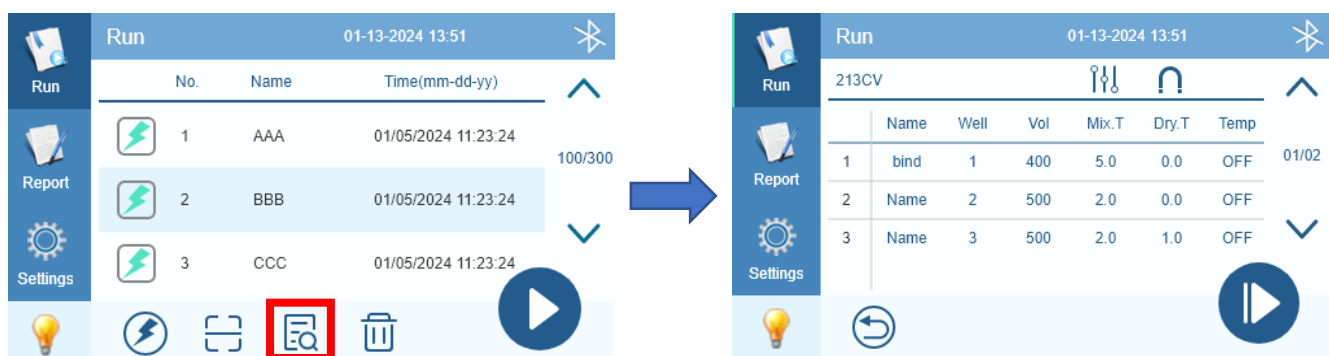





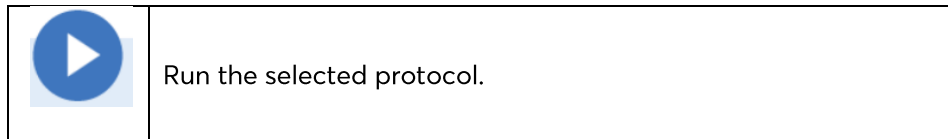




Fig 32. Preview the Steps of a Protocol

Click the "" icon to preview the selected protocol, as shown in figure 32 below.

Icon	Definition
	Delete the selected protocols from the instrument's internal memory.
	Switch from Shortcut view to List view, and vice versa.
	Activate the instrument scanning software, which allows the scanning of a QR code for instant protocol upload.
	Preview the parameter settings of a selected protocol.



Running a Program

Click the  icon to start a protocol run, and  icon to pause. (Fig. 33). During a protocol run, a progress bar at the bottom of the screen provides an indication of the process. Remaining time, temperature of the heating blocks, current step name and details of the current step are also displayed.

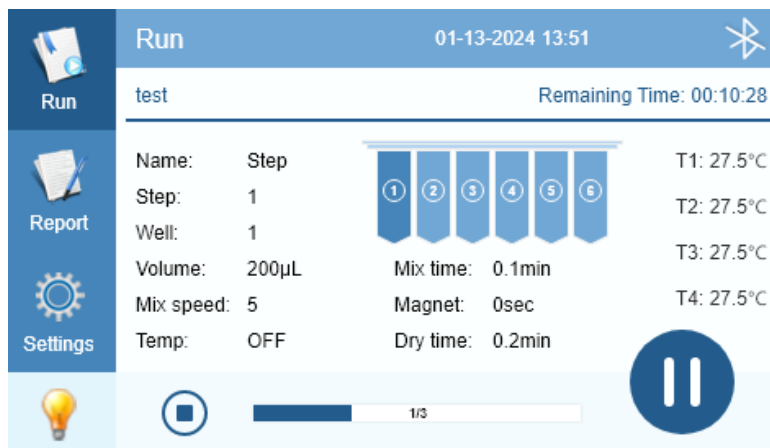


Fig 33. Run a Protocol

Log Interface

The instrument automatically generates and stores a log of each protocol run. The report contains the name of the protocol, date and time of the protocol run, parameter settings for each step, instrument information, and more. The instrument can store reports of up to 1000 protocol runs, which can be exported via a USB flash drive. The most recent report will display at the top of the list in the "Report" interface (Fig. 34).

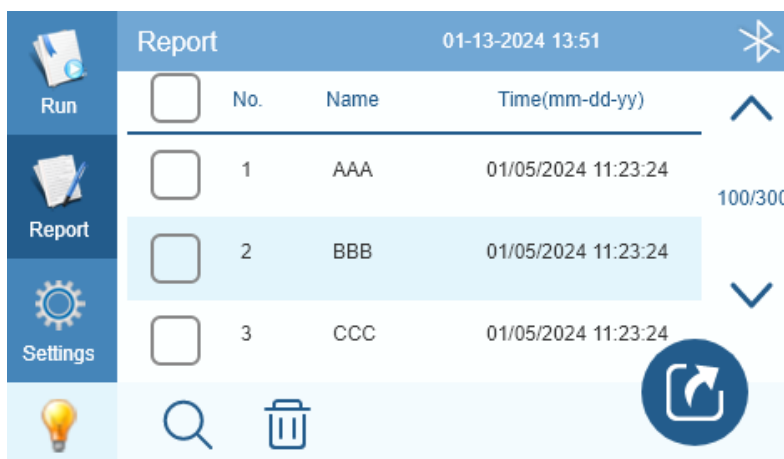





Fig 34. Protocol Report

Icon	Definition
	Delete the selected logs
	Search for a specific log
	Export log to a USB flash drive

Settings Interface

The settings interface has 4 tabs: "UV", "Fan", "System" and "Maintenance".

UV: The time of sterilization can be set. Click the start button to begin the process. The UV light will turn off automatically after the timer has ended.

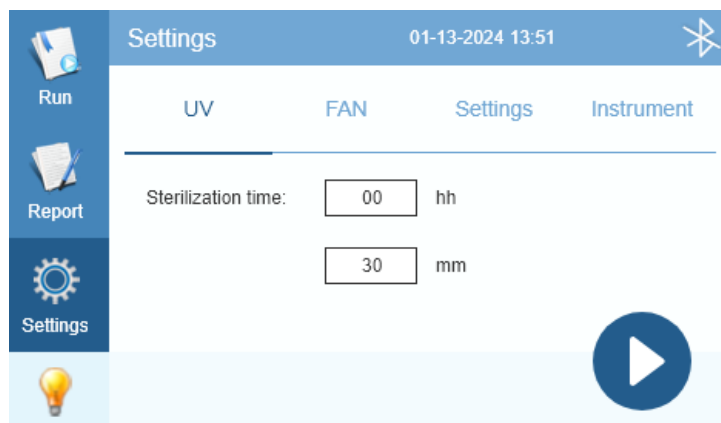


Fig 35. UV Sterilization Settings

Fan: The internal fan can be turned on or off during a protocol run.

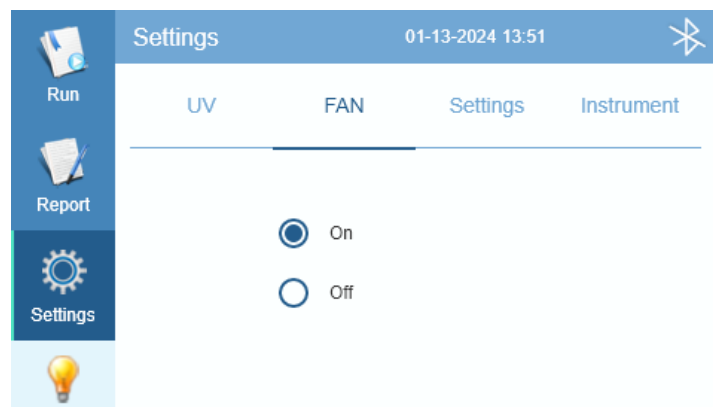


Fig 36. Internal Fan Settings

System: Settings for "System" interface is divided into "Time", "Language", "Transfer", "Bluetooth" and "Version", (Fig. 37, Fig. 38).



Fig 37. System Settings 1/2

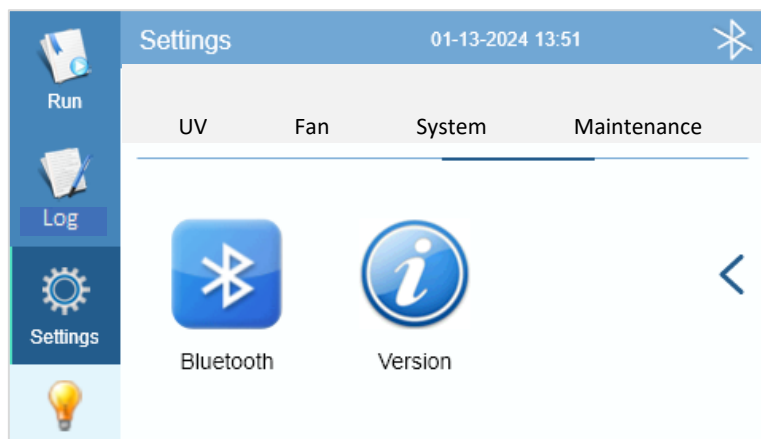


Fig 38. System Settings 2/2

Time: Change the currently displayed time on the instrument.



Fig 39. System Settings

Transfer: Import/Export protocols from/to a USB flash drive.



Fig 40. Import/Export Protocol

To import/export a protocol via USB, insert the included USB flash drive into the instrument. When importing a protocol, the file must be saved in the USB drive under a folder labeled "items". Then, select the "Import " (or "Export") button to enter the flash drive directory. Select the required protocols for transfer and press "Ok" to import/export.

Bluetooth: Turn Bluetooth on/off; the Bluetooth ID is the serial number of the instrument.



Fig 41. Bluetooth Settings

Internal LED Lighting

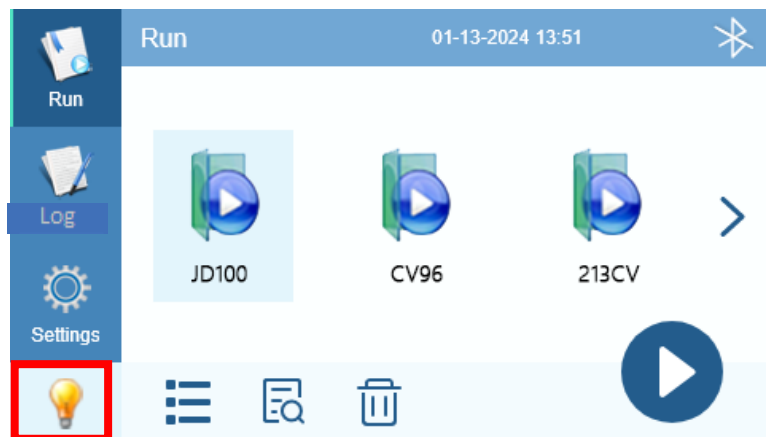


Fig 42. Turn Internal Light On/Off

In the lower left corner of the general instrument interface, there is a lamp icon "  ", Select the icon to

turn the Internal LED lamp on/off (Fig. 42).

Troubleshooting

Review the information in the table below to troubleshoot operating problems.

Problem	Cause	Solution
Instrument does not power on	Power not connected, Fuse failure	Ensure power supply is connected. Contact VWR Service
No UV Light	UV bulb failure	Replace UV bulb. Contact VWR Service.
No LED Light	LED failure	Replace LED. Contact VWR Service.
Program does not stop after opening chamber door	Sensor failure	Contact VWR Service.
Noticeable difference between the actual and display temperature	Sensor failure	Contact VWR Service.
Instrument does not start program after pressing "run"	Controller and/or Motor failure	Contact VWR Service

Repair and Maintenance

Encountering problems

For inquiries on the repair and maintenance of the instrument, please contact your local VWR service center for assistance.

User Replaceable Accessories and Spare Parts

Description	Quantity	Cat. No.
VWR 6-WELL SAMPLE VESSELS CS100	100	77321-868
VWR TABLET FR 16 SAM PURIFICATION SYSTEM	1	77321-874
VWR 8 PLACE TIP COMBS CS50	50	77321-872

Technical service

Web Resources

Visit the VWR website at www.vwr.com for:

- Complete technical service contact information
- Access to the VWR Online Catalogue, and information about accessories and related products
- Additional product information and special offers

Contact us For information or technical assistance contact your local VWR representative or visit. www.vwr.com.

Warranty

VWR warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of delivery. If a defect is present, VWR will, at its option and cost, repair, replace, or refund the purchase price of this product to the customer, provided it is returned during the warranty period. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, or from ordinary wear and tear. If the required maintenance and inspection services are not performed according to the manuals and any local regulations, such warranty turns invalid, except to the extent, the defect of the product is not due to such non-performance.

Items being returned must be insured by the customer against possible damage or loss. This warranty shall be limited to the aforementioned remedies. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

Compliance with local laws and regulations

The customer is responsible for applying for and obtaining the necessary regulatory approvals or other authorisations necessary to run or use the Product in its local environment. VWR will not be held liable for any related omission or for not obtaining the required approval or authorisation, unless any refusal is due to a defect of the product.

Equipment Disposal



This equipment is marked with the crossed out wheeled bin symbol to indicate that this equipment must not be disposed of with unsorted waste.

Instead it's your responsibility to correctly dispose of your equipment at lifecycle -end by handling it over to an authorized facility for separate collection and recycling. It's also your responsibility to decontaminate the equipment in case of biological, chemical and/or radiological contamination, so as to protect from health hazards the persons involved in the disposal and recycling of the equipment.

For more information about where you can drop off your waste of equipment, please contact your local dealer from whom you originally purchased this equipment.

By doing so, you will help to conserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.

Thank you

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