Operation Manual

V1.4

Smart·Q™ Mini

Quantitative Fluorometer



This product is for research use only

ACCURIS INSTRUMENTS

Thank you for purchasing the Smart-Q Mini. This user manual details the instrument's features, specifications, as well as complete operating instructions; please read it carefully before operation. Keep this user manual for later use.

Important:

Please keep the box and packaging material for this instrument. If service is required, the box will be needed to ship the instrument to our Service Department.

Safety Warnings and Guidelines

1. Important information for safe use

Users should understand how to use this instrument before operating. Please read this manual carefully prior to operation.



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



This instrument is for research use only!

2. Operation and Maintenance

The operation and maintenance of the instrument should comply with the basic guidelines and warnings below. Incorrect operation or maintenance will have detrimental effects on the life, performance, and safety features of the instrument.



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.



Note: Possibility of Biological Hazards. All samples for test, quality control, and calibration should be considered infectious, and any parts of the instrument or consumables that contact samples may also be infectious. Always wear gloves when operating this device.



To prevent injury or voiding the warranty, the operator should not attempt to repair the instrument without explicit guidance from Accuris Instruments. If service is required, please contact Accuris Instruments or your local distributor for repair.



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.

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Chapter 1 Introduction

Fluorescence immunoassay technology provides superior specificity and sensitivity, making it a preferred method for detecting bioactive compounds at trace levels. It is extensively employed in the quantitative and qualitative analysis of proteins (including enzymes, receptors, and antibodies), nucleic acids, hormones (such as steroids, thyroid hormones, and peptide hormones), pharmaceuticals, and microorganisms.

The Smart-Q Mini Fluorometer operates on the principle of fluorescence immunoassay, measuring the fluorescent intensity emitted by fluorescent reagents during immunoassay reactions. Under low analyte concentration conditions, the system exhibits a linear correlation between sample concentration and fluorescence intensity, facilitating precise qualitative identification and quantitative determination of target analytes. Reagent kits with fluorescent dye, buffer, and standards are available from Accuris or your local distributor.

1. Key Features

- Compact and Lightweight
- Fast and Accurate detection of DNA, RNA, and proteins (< 6 seconds)
- Operate via Bluetooth wired connection to an Android or iOS mobile devices
- Low sample consumption, as low as 1 μL of sample is needed for accurate quantification
- Reagent calculator to assist with volume determination

Chapter 2 Specifications

1. Required Installation Environment

Environmental Temperature: 10°C～40°C

Relative Humidity: ≤ 70%

Input Voltage: 5V2A or 12V 3A

2. Specifications

Model	**Smart-Q Mini**
Light Source	Blue LED Red LED
Dynamic Range	5X orders of magnitude
Excitation Wavelength	Blue: 470±15 nm Red: 625±20 nm
Emission Wavelength	Green: 525-570 nm Red: 670-725nm
Repeatability	≤1.5%
Detector	Photodiode, detection wavelength 320~1100 nm
Measuring speed	≤2s
Calibration	Two-point or midpoint calibration
Sample tube	0.5 mL clear-walled quantification tubes
Display	No external display (instrument operation via Android or iOS phone or tablet)
Dimensions	3.27 x 3.27 x 3.62 in / 8.128 x 8.128 x 3.19 cm
Weight	1.1 lb / 0.5 kg

Chapter 3 Instrument Overview

1. Structure

Front



Fig. Front

Back

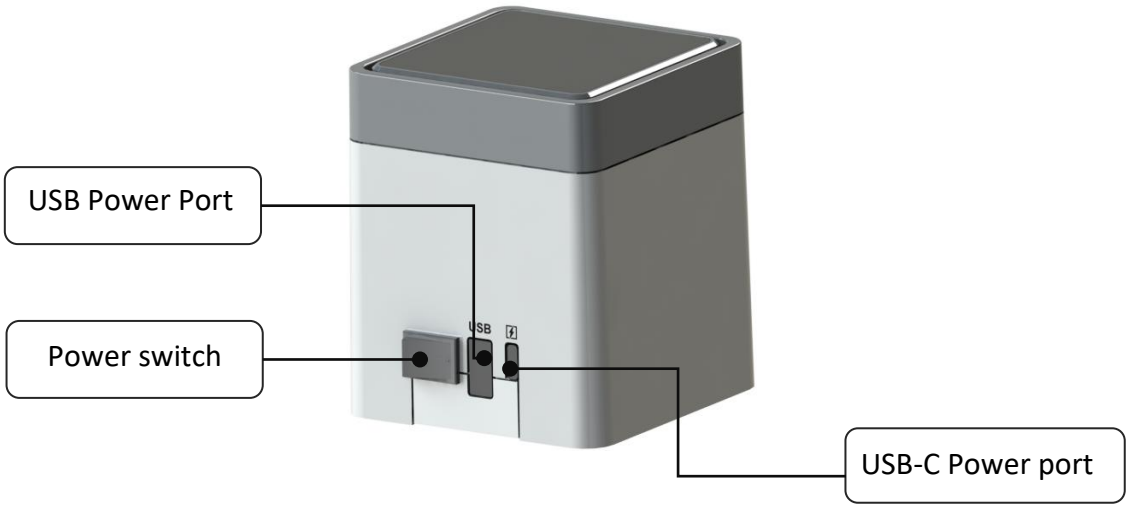


Fig. Back

2. Pre-unpacking instructions

All Smart-Q Mini Fluorometers undergo quality inspection prior to shipment. Upon receipt of the instrument, please conduct a visual inspection of the outer packaging *before unpacking*, paying particular attention to the following:

1. Signs of deformation of the package.
2. Evidence of water exposure or staining.
3. Visible impact marks or compression damage.
4. Tampering or signs that the package has been previously opened.

If any of the above conditions are observed, do not proceed with unpacking. Immediately contact Accuris Instruments' customer service team or your local Accuris distributor.

3. Post-unpacking instructions

If the external packaging is intact and undamaged, proceed to open the package and perform the following checks:

5. Verify that all accessories are present and accounted for according to the packing list.
6. Inspect the instrument for any physical damage, including cracks, deformation, or other visual defects.

4. Powering on the instrument

A. Position the instrument securely on a stable, level workbench.

B. Locate the power adapter. Connect the Type-C plug to the designated power input port located at the rear of the instrument. Plug the opposite end of the adapter into a standard AC power outlet (AC 100–240V, 50/60 Hz).

C. Power on the instrument using the main switch. The system will automatically initiate a self-diagnostic routine.

D. Once the self-check is complete, establish a connection between the instrument and a tablet or smartphone via either USB (wired) or Bluetooth. Upon successful connection, the device is ready for operation.

5. Compatible devices and App installation

The App software is supported by smartphones and tablets running the Android or iOS operating systems.

Software Installation Instructions for Android or iOS :

1. Navigate to the **"update"** directory on the USB drive and locate the installer labeled **"Fluorometer"**.

2. Launch the installation package and confirm all system prompts to begin the installation process.

3. Once the installation progress bar reaches **100%**, the software will be successfully installed and ready for use.

Note:

For full functionality, the software requires access to specific device permissions, including:

File storage access

USB device communication

Bluetooth connectivity

These permissions will be requested automatically by the system during software initialization or first use of related functions. **If any of these permissions are denied, corresponding software features may not function correctly.**

Chapter 4 Programming & Operation

1. Connecting instrument to a tablet or mobile device

After powering on the instrument, locate the **Fluorometer** software icon on your mobile device or tablet and tap to launch the application.

The software supports two communication modes for connecting to the instrument:

- **Wired Connection (USB):** Establishes a direct connection via USB Type-C cable.
- **Wireless Connection (Bluetooth):** Allows for wireless pairing between the instrument and the mobile device.

Method 1: Wired Connection (Default Mode)

The software is configured by default to operate in **wired communication mode**. The instrument is shipped with an **OTG (On-The-Go) connection cable**, as illustrated in *Figure 5-1*. To establish a wired connection:

A. Insert the **USB-A** end of the OTG cable into the instrument's **USB port**, ensuring proper orientation by aligning the square connector shape.

B. Connect the **USB Type-C** end to the corresponding port on your mobile device or tablet.

Note: If the mobile device does not support a USB Type-C interface, use a compatible adapter to match the port type of the terminal (e.g., Micro-USB to Type-C or Lightning to Type-C adapter, as applicable).

D. Upon connection, the software will automatically prompt the user to **grant USB access permission**. The connection process will not be completed unless this permission is granted.

E. Once successfully connected, a **"Connected"** status icon will appear in the upper-right corner of the application interface. You may also verify the connection status within the software settings or main interface.

Method 2: Wireless Connection (Bluetooth Mode)

The instrument's **Bluetooth module is enabled by default**.

To establish a Bluetooth connection:

1. On your mobile device or tablet, launch the software and navigate to: **Settings → Connection**.
2. Switch the connection mode from **USB** to **Bluetooth**.

3. From the list of available devices, select the instrument's Bluetooth identifier and initiate pairing.
4. When prompted, grant **Bluetooth permission** to the application. The connection process will not proceed unless this permission is authorized.
5. Once paired successfully, the software interface will indicate a **"Connected"** status in the upper-right corner.

To disable Bluetooth communication:

- Navigate to: **Settings** → **Maintenance**, and toggle the **Bluetooth switch to OFF**.

Login

Note: The following operational instructions are demonstrated using the **mobile application**. The **tablet version** of the application shares the same functionality and workflow, with only minor interface layout differences.

Step-by-Step Login Procedure

1. **Simultaneously power on the instrument and launch the software** on your mobile device or tablet.
2. Upon startup, the instrument will automatically enter the **self-diagnostic (self-test) interface**. The self-check process will be completed within a few seconds.

- If an error is detected, the system will display an alarm prompt. In such cases, refer to **Chapter 7 –Troubleshooting** for detailed guidance.

Initial Login & Device Recognition

- On first launch, the software will prompt the user to select a connected instrument.
- If the device is already connected (via USB or Bluetooth), the software will **automatically detect and identify** the instrument.
- Confirm the selection to proceed to the main interface.

After the instrument completes the self-check process, the User Login interface will appear.

- The default administrative **account**: Admin
- The default **password** is: 0000

Important: Login credentials are case-sensitive. Ensure that uppercase and lowercase letters are entered correctly when typing the username and password. The admin account has full access to system settings, calibration, and maintenance functions. It is recommended to change the default password after initial setup to ensure system security.

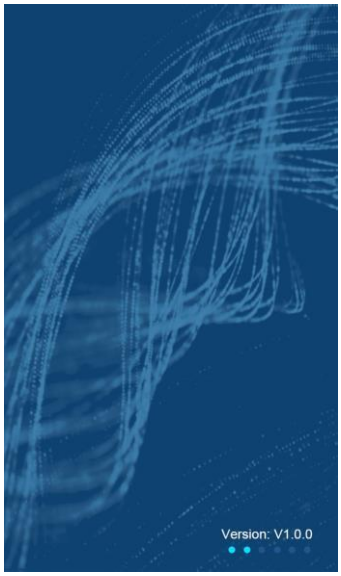


Fig. Self-check

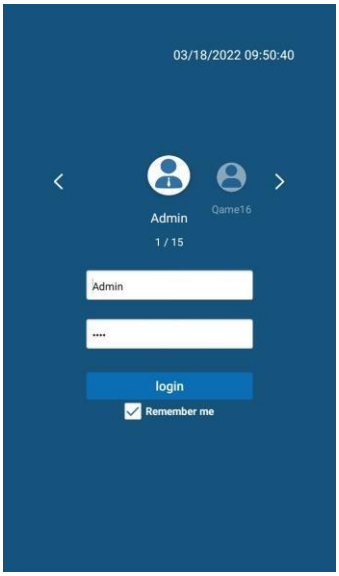


Fig. Login Interface

2. Main Menu Interface

Upon successful entry of the **username** and **password** at the login screen, the software will transition to the **main interface**.

From this interface, users can:

- Tap the corresponding icons to access various **detection modes**.
- Navigate to **Account Management** to configure user profiles and access levels.
- Access **System Settings** to adjust application preferences, connectivity options, and instrument configuration.

The layout is designed for intuitive navigation, enabling efficient workflow across different operational tasks.

dsDNA detection

From the **main interface**, tap the **dsDNA** icon to initiate nucleic acid quantification. A **detection mode selection dialog** will appear, as shown in *Figure*below.

The following detection types are available:

- **dsDNA: High Sensitivity (HS)** – Optimized for low-concentration DNA samples requiring precise quantification.
- **dsDNA: Broad Range (BR)** – Suitable for samples with moderate to high DNA concentrations.
- **1x dsDNA** – For using kits with 1x working solutions.

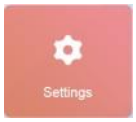
Select the appropriate mode based on your sample concentration and reagent kit used.



Fig. Main Menu Interface

Table: Main Menu Interface Operations

Name	Function
	Select to manage account settings or to switch between users.
	Select to view the working solution calculator
	Select to enter the dsDNA Interface
	Select to enter the RNA Interface
	Select to enter the Oligo Interface
	Select to enter the Protein Interface
	Select to enter the Fluorescence Interface

	Select to enter the Standard Curve Interface
	Select to view a list of the most recent protocols created/run
	Select to enter the settings interface

3. dsDNA Interface

Note: As the interface of dsDNA, RNA, Protein, Oligo are identical, Only the dsDNA Interface is described in detail in this manual.

From the Main Menu Interface, click  to enter the dsDNA Interface. Three test types are available for selection: dsDNA: High Sensitivity, dsDNA: Broad Range, & 1x dsDNA .

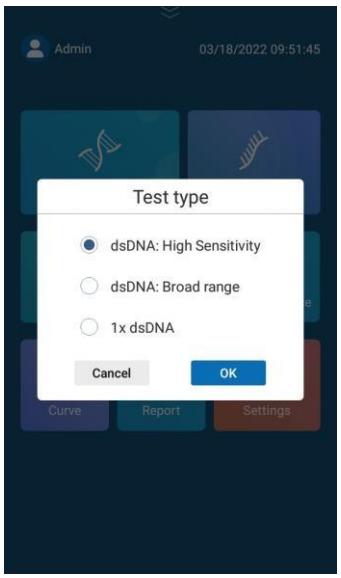


Fig. dsDNA test type



Fig. dsDNA test

Calibration Curve Interface

Prior to sample measurements, a calibration curve must be created using the standards that are typically included with a quantification kit. Only 2 standards are required to form the calibration curve.

Enter the dsDNA testing interface. Click the  button and select “Calibration” to create the calibration curve.



Fig. Curve Cal.

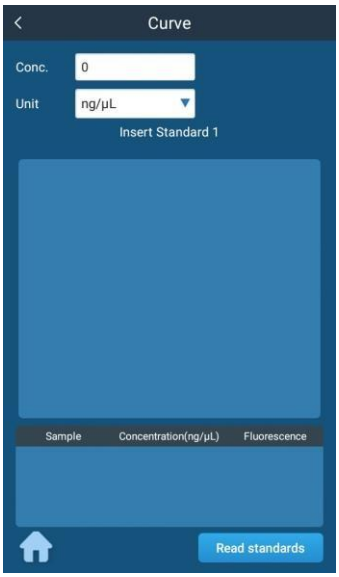


Fig . First Cal. point

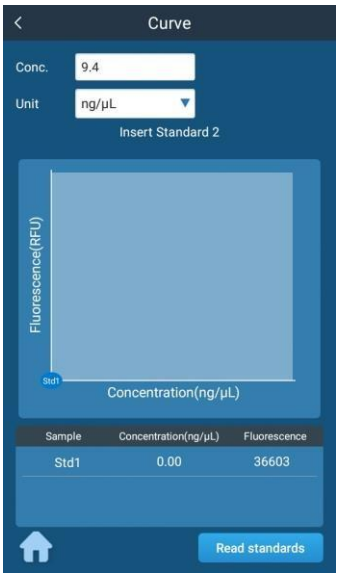


Fig. Second Cal. point

For each assay, you have the choice to run new standards, or to use values from the previous calibration to calibrate the assay. If a calibration has been carried out recently, the last set data can be selected; If recalibration is required, select the  button to perform the calibrate.

Enter the calibration interface, enter the known concentration value for each standard, and press “Read Standards” to perform measurements of the standards. After both standards have been read, select “Save” to save the calibration data.

Sample Measurements

After generating the calibration curve, input the original volume of the sample that was added to the tube and click  to perform a measurement. After measurement, the original concentration and RFU of the sample will be displayed. Swipe right to view data from multiple samples within the same run. Click the name of the sample to modify the sample’s name.



Fig. Testing interface

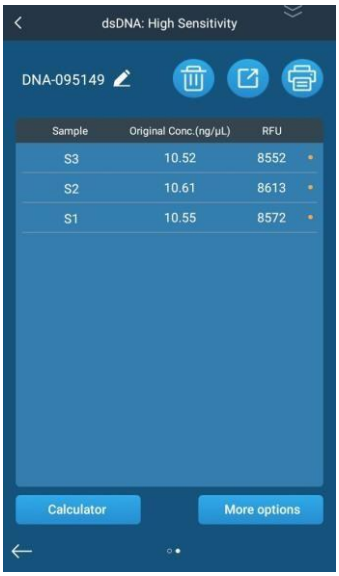


Fig. Test Report



Fig. Modify sample name

: Delete selected test results.

:Export all result of current testing.

:Print all result of current testing.

Calculator : Click to enter the Molarity/Normalization

More options : Click to enter the options interface. The reagent kit number and sample ID can be adjusted in this interface.

4. Molarity Calculator

Click Calculator and select the “Molarity” tab to enter the Molarity interface.

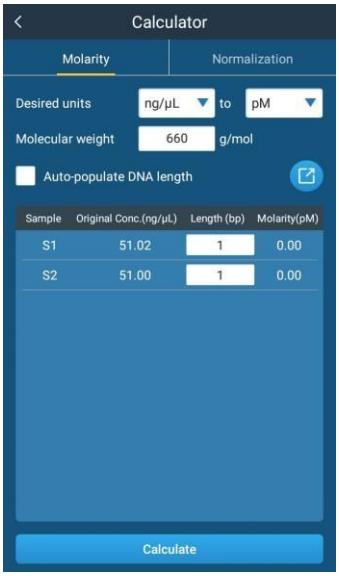


Fig. Molarity/Normalization Calculator Interface

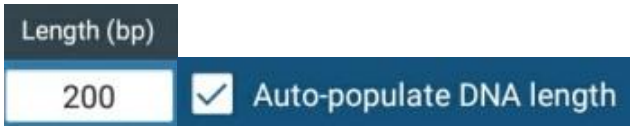


Select the conversion units: ng/μL, ng/mL, μg/μL, μg/mL, mg/mL.

After selecting the conversion units, select the units: M, mM, μM, nM, pM.



Input the molecular weight; the default value for dsDNA is set to 660g/mol.



Input the DNA length, when “Auto-populate DNA length” in enabled, all lengths will be automatically filled in according to the length of the first sample.

Note: The Molarity/Normalization Calculator Interface can only be selected one sample measurement have been performed.

5. Normalization Calculator

Select the Normalization tab to enter the Normalization calculator interface. In this interface, choose the type of Normalization (for example: molarity, concentration,

and/or weight), and set the final sample molarity and volume. Click “Calculate” to enter the results interface.

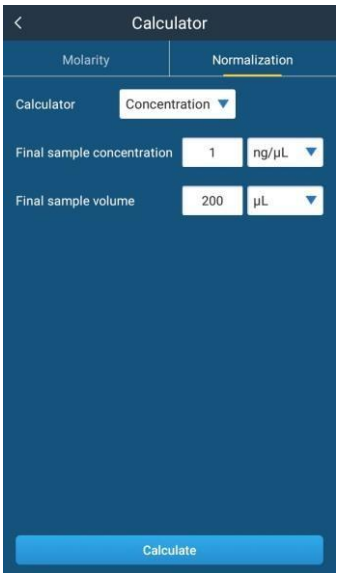


Fig. Normalization Interface

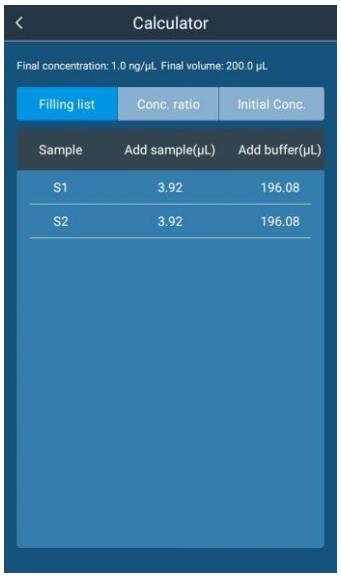


Fig. Results Interface

The Filling List tab shows the required sample and buffer volume to be added to achieve the desired final sample concentration within the final sample volume. On the

Conc. Ratio interface, if a secondary dilution is required, the dilution ratio and the concentration after dilution will be displayed. The Initial Conc. interface shows the concentration of the original sampl. Click “Export” to export current data to an inserted USB drive.

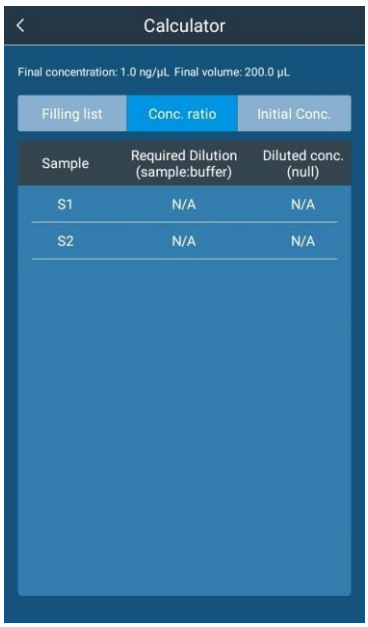


Fig. Secondary Dilution



Fig. Initial Concentration of Sample

6. Fluorescence Interface

From the Main Menu Interface, select  to enter the Fluorescence interface. Three test types are available for selection: Blue 470nm, Red 635nm, & Blue & Red.

Note: The Fluorescence interface does not require the generation of a calibration curve.

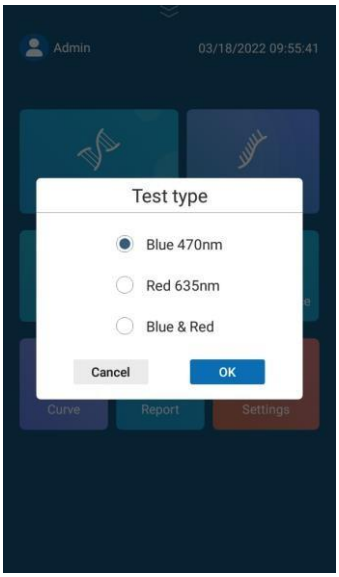


Fig. Fluorescence Test Type



Fig. Blue 470nm Channel



Fig. Blue & Red Channels

Test Types: Blue 470nm and Red 635nm are single excitation wavelength tests, whereas Blue & Red is a dual-wavelength test.

The Blue 470nm interface is identical to the Red 635nm interface. Click  to begin a sample measurement. After measurement, the RFU of the sample will be displayed. Data can be deleted, exported, or saved via the icons found at the upper right corner of the display.

7. Working Solution Calculation Settings

Click and drag down the  button to view the Working Solution Calculator. This interface allows for the calculation of the total working solution volume required based on dye-to-buffer ratios. Input the number of samples and standards required and select “Done”. The calculated volumes for “Dye”, “Buffer”, & “Total volume” will be displayed based on the set numbers of samples and standards. Select

“Include Overage” to account for 1 extra tube in the calculation.

8. Detection Range Calculator

From the Working Solution Calculator interface, swipe right to enter the Detection Range Calculator. Here, the assay type, units, and original sample volume can be adjusted, and a detection range will be displayed after clicking “Done”.



Fig. Working Solution Calculator



Fig. Detection Range Calculator

9. Standard Curve Interface

From the Main Menu Interface, click  to enter the Standard Curve Interface.



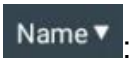
Fig. Standard Curve Interface



: Select the sample type (dsDNA, RNA, Oligo, Protein).

: Create a new standard curve.

: Delete, import, or export the standard curve.



: Sort the list in alphabetical order.



: Sort the list by type of assay.



: Sort the list by creator name.

10. New Standard Curve

Click the  icon to create a new standard curve. The New Curve Selection Box will be displayed, with adjustable values for sample type, assay type, and curve name. Once the values have been adjusted/set, click “OK” to enter the New Standard Curve Interface.

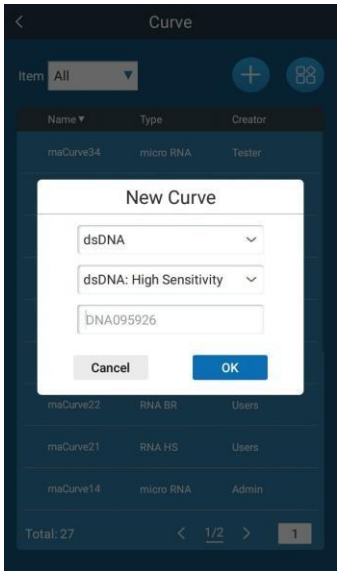


Fig. New Curve Selection Box



Fig. New Standard Curve Interface

: Highlight the previous standard.

: Highlight the next standard, or to add an additional standard.

: View Parameter Settings (EX / EM wavelengths + concentration units).

: Plot the obtained sample data points to a curve.

: Delete RFU1/RFU2/RFU3 data or to delete the standard itself.

: Perform standard sample measurement.

Note: *At least 5 standards are required to create the standard curve*. For each standard, the average RFU value taken from 3 readings is used for curve generation.

Curve Management

From the Standard Curve Interface Click to enter Curve Management Interface.

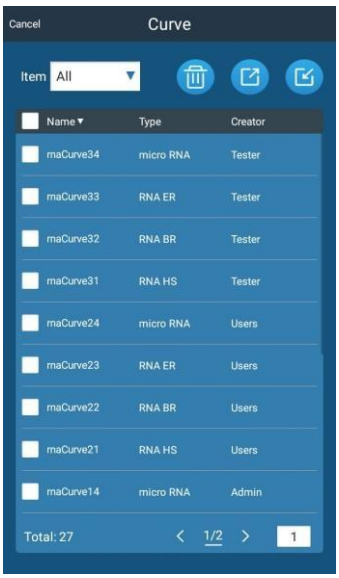


Fig. Curve Management Interface

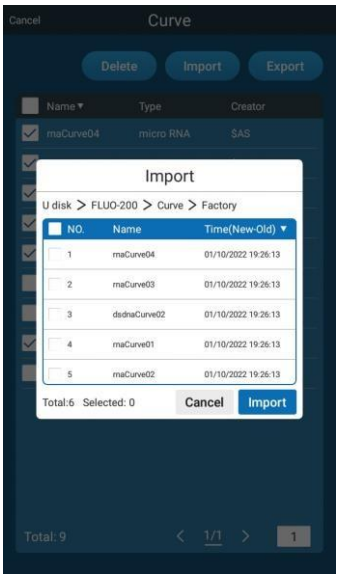


Fig. Importing Curve(s)

: Delete the selected curve.

: Export the selected curve(s) to a USB drive .

: Import curve(s) from a USB drive to the instrument.

11. Reports Interface

In the main interface, click  to enter the Reports Interface. Input keywords in the search box to quickly find the required report.



Fig. Reports Interface



Fig. Quick Search

Click on a report to view its saved data. Click on the sample from the row to view the detailed sample report.

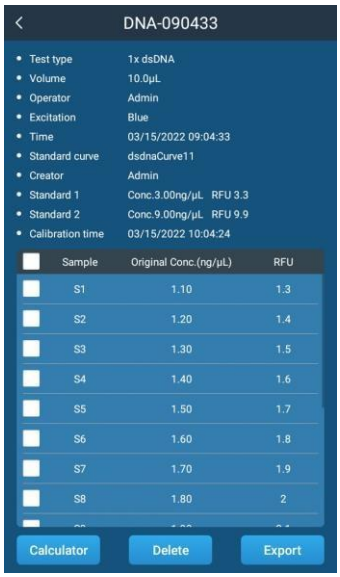


Fig. Saved Report Data

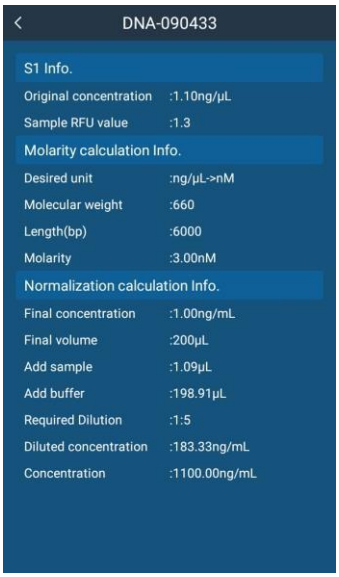


Fig. Detailed Sample Report

12. User Management Interface

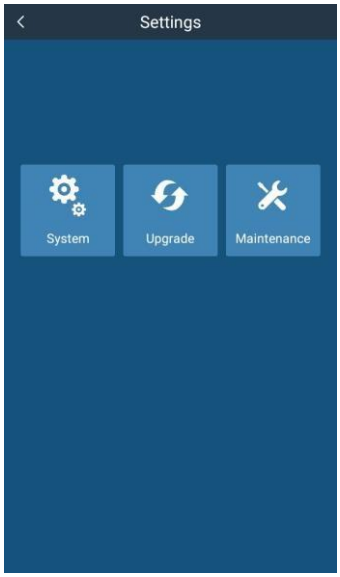
From the Main Menu Interface, select the  icon from the upper left corner of the display. The following icons will be displayed: 

 : User Settings: Administrators can manage user accounts by adding, deleting, or modifying the user name / password. Non-Administrators can only change their own passwords in this interface.

 : Switch User: Return to the Login Interface to switch to a different user.

13. Settings Interface

Click  in the main interface to enter the Settings Interfac.



Fi. Settings Interface

 System Settings

 Maintenance

 Upgrade

System Settings Interface

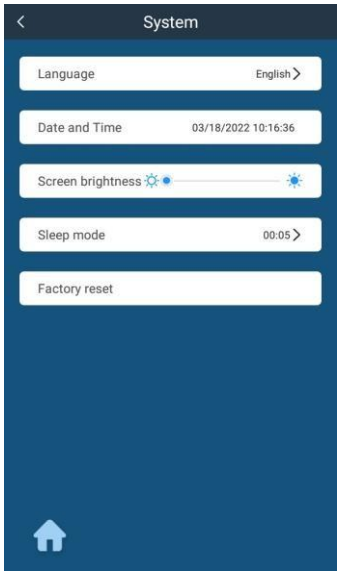


Fig. System Settings

Click  to enter system settings:

Language: Select English, or Chinese.

Date and Time: Set the system date and time.

Screen Brightness: Adjust the screen brightness.

Sleep Mode: Turn the automatic sleep mode on or off and adjust time required to initiate Sleep Mode.

14. Upgrade Interface

From the Main Menu Interface, click  to enter the Upgrade Interface.

The versions of the software and firmware will be displayed. To make updates, insert a USB drive with the relevant update files and select the “>” next to either the software or firmware version number.



Fig. Upgrade interface

15. Maintenance Interface

From the Main Menu Interface, click 

and input the password to enter the Maintenance Interface. This is only available for authorized service procedures.

Contact Accuris Instruments or your local distributor for details.

Chapter 5 Maintenance

The instrument should be cleaned regularly using a soft cloth dampened with water. The instrument housing should be cleaned regularly using a soft cloth dampened with a small amount of alcohol.

Storage, Transportation, and Handling Guidelines

- **Environmental Storage Conditions:**
  The instrument must be stored in a dry, well-ventilated indoor environment, with a temperature range of 10°C to 40°C and relative humidity not exceeding 70%. The storage area must be free from corrosive gases and sources of strong electromagnetic interference.
- **Factory Configuration:**
  The instrument is factory-calibrated prior to shipment. Unauthorized disassembly is strictly prohibited. In the event of a malfunction or abnormal operation, please contact the manufacturer or authorized service personnel immediately.
- **Power Supply Requirements:**
  Ensure that the input voltage matches the specified operating voltage. Avoid rapid, repeated switching of the power supply, which may lead to hardware instability.
- **Transportation Precautions:**
  During transport, the instrument must be protected from mechanical shock, vibration, and moisture. Appropriate packaging and shock-absorbing materials should be used to prevent damage.
- **Handling Instructions:**
  Do not lift the instrument by the upper cover (gray section). The upper cover is magnetically attached to the lower housing and is not designed to support the full weight of the instrument. Lifting it improperly may result in detachment of the lower shell and potential equipment damage.

Method for Replacing a Spring Latch

A spare latch is included in the original packaging. In case of damage, replacement latches can be purchased separately by the user.

Step 1: Secure the lower shell with one hand. With the other hand, carefully lift and remove the upper cover from the instrument.

Step 2: Using a suitable tool, press both clasps on the spring latch inward. While holding the clasps, press the bottom of the latch with your hand to release and remove it from the instrument.

Step 3: Align the new spring latch with the designated slot on the top cover, ensuring

the orientation matches the indicated direction. Press the latch firmly into place until it securely locks into position.

Step 4: Reattach the upper cover to the lower shell, ensuring that the directional arrows on both components are properly aligned. Press down gently until the magnetic connection engages securely.

Chapter 6 Troubleshooting

No.	Error	Possible Causes	Solutions
1	The fluorometer fails to power on (the indicator light is not on)	Power supply issue	Check if power cord is securely connected to both instrument and power outlet.
		The switch is damaged.	Contact with distributor or manufacturer.
		Others.	Contact with distributor or manufacturer.
2	Unstable Fluorescence Detection Values	The PCR sample tube is not properly placed.	Check the PCR sample tube and gently press it down to ensure it is fully inserted into the instrument.
3	Inaccurate Detection	Poor linearity of the standard curve.	Verify the preparation of the standard solutions and re-establish the Standard Curve and recalibrate the curve.
		The instrument moved during the detection process.	The instrument should remain stationary during detection.
4	The Lid Cannot Pop Up	The spring latch is damaged.	**Temporary solution:** Manually press the latch slide plates outward to both sides to temporarily secure the cover.
			Permanent Solution: Replace the spring latch (For detailed methods, refer to Product Maintenance chapter).
			Contact distributor or manufacturer.
5	Abnormal Fluorescence Detection Value	Strong external light illumination.	Turn off the external light source.
		The Lid is open during program execution.	Close the lid.
		Detector Damaged	Contact distributor or manufacturer.
6	E503	Abnormal Lid Closure	Contact distributor or manufacturer.
7	E703	EEPROM Damaged	Contact distributor or manufacturer.
8	E714	Calibration Abnormality	Contact distributor or manufacturer.

9	E602	Sampling Abnormality	Contact distributor or manufacturer.
10	E902	Detection Abnormality	Contact distributor or manufacturer.
11	E903		Contact distributor or manufacturer.
12	E904		Contact distributor or manufacturer.
13	E905		Contact distributor or manufacturer.
14	E912		Contact distributor or manufacturer.
15	E913		Contact distributor or manufacturer.
16	E914		Contact distributor or manufacturer.
17	E915		Contact distributor or manufacturer.
18	E922		Contact distributor or manufacturer.
19	E923		Contact distributor or manufacturer.
20	E924		Contact distributor or manufacturer.
21	E925		Contact distributor or manufacturer.
22	E804	Abnormal Bluetooth Communication	Contact distributor or manufacturer.

Chapter 7 Abbreviations

The following abbreviations are provided for reference and will be used throughout this operation manual.

A	Ampere
AC	Alternating current
Hz	Hertz
USB	Universal Serial BUS
WiFi	Wireless Fidelity
Kg	Kilogram
mm	Millimeter
μL	Microliter
hpa	Hectopascal
°C	Degree centigrade

Chapter 8 Fluorometer Quantification Kits

The following table contains information on Accuris Quantification kits that are optimized to work with Smart-Q Mini and other Accuris fluorometers as well as Qubit fluorometer.

Ordering Information

Item No.	Description
F1001*	Accuris™ Smart-Q™ 100 Fluorometer, 115 V
F1008*	Accuris™ Smart-Q™ 800 Fluorometer, 115 V
F0100*	Accuris™ Smart-Q™ Mini Fluorometer, 115 V
F1000-HS-100/500	Accuris dsDNA High Sensitivity Quantification Kit, 100 or 500 assays
F1000-HS1-100/500	Accuris 1X dsDNA High Sensitivity Quantification Kit, 100 or 500 assays
F1000-BR-100/500	Accuris dsDNA Broad Range Quantification Kit, 100 or 500 assays
F1000-BR1-100/500	Accuris 1X dsDNA Broad Range Quantification Kit, 100 or 500 assays
F1000-SD-100/500	Accuris ssDNA Quantification Kit, 100 or 500 Assays
F1000-RHS-100/500	Accuris RNA High Sensitivity Quantification Kit, 100 or 500 assays
F1000-RBR-100/500	Accuris RNA Broad Range Quantification Kit, 100 or 500 assays
F1001-T	0.5mL Fluorescence Detection Tubes, pack of 250
F1008-T	Smart-Q™ 800 Assay Tubes, pack of 1000
F1008-T-8	Smart-Q™ 800 Assay Tube Strips, pack of 120