

# Fluorometer

Series Products

Fluo-200 / 800





Fluo-200 Mini / 800 Mini



# Fluorometer Series

Designed for modern laboratories, our fluorometer products provide efficient and accurate support for highly sensitive quantification of DNA, RNA, and proteins.

The instruments feature an intuitive interface, easy to use, delivering accurate results in seconds. They are highly adaptable to diverse scenarios, including NGS quality control, reagent development, and clinical diagnostics.

	Fluo-200	Fluo-800	Fluo-200 Mini	Fluo-800 Mini
				
Channel	470±15 nm / 525-570 nm 625±20 nm / 670-725 nm	470±15 nm / 525-570 nm 625±20 nm / 670-725 nm	470±15 nm / 525-570 nm 625±20 nm / 670-725 nm	470±15 nm / 525-570 nm 625±20 nm / 670-725 nm
Throughput	1	8	1	8
Consumables dimensions	0.5 mL	0.2 mL	0.5 mL	0.2 mL
Linear range	5	4	5	4
Measurement time	≤5 s / sample	≤6 s / 8 samples	≤2 s / sample	≤6 s / 8 samples
Operation method	7-inch touch screen	7-inch touch screen	Mobile phone / tablet	Tablet

## Fluo-200 / Fluo-800

The new fluorometer Fluo-200 and Fluo-800 are used for high sensitivity quantitative analysis of DNA, RNA and protein. High precision detection method reduces the variation effectively. Easy and humanized software, intuitive user interface and rapid test method greatly shorten the testing time.

### Fluo-200

- Fast Detection**

Fast & accurate quantification of DNA, RNA & protein in 5 s

- High Sensitivity**

The lowest detection limit can be 0.1 pg/μL (dsDNA)



## Fluo-800

- **High Throughput**  
8 samples per run
- **Fast Detection**  
8 samples can be detected in 6 s
- **High Sensitivity**  
The lowest detection limit can be 1 pg/ $\mu$ L (dsDNA)



## » Feature

### Simple and Intuitive

7 inch color touch screen

### Accurate Quantification

High accuracy with only 1-20  $\mu$ L samples

### Dual Channel Detection

Adapt to more dyes

### Store Results & Export Data

Up to 20000 programs can be stored. Be exported directly to U disk, or connected to an external printer

### Data Save

Save sample data as a CSV or PDF file

### Open Reagent Application

Can match reagents from different manufacturers

## » Flexible Software



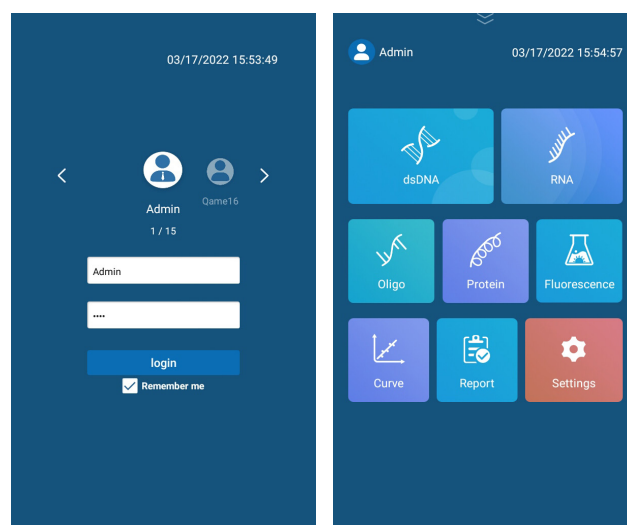
### User Authorization Management

User independent account and password to ensure data stability.



### Intuitive Interface Display

Modular layout makes function display more intuitive.





Reagent Concentration Calculator

Quickly generate working solution preparation dosage, shorten reagent preparation time.



Sample Concentration Analysis

To use the calculator to show how the assay range changes. It can help to select the appropriate assay based on sample volume and estimated sample concentration for the most accurate quantification.



NGS Workflow Calculator

Use the molarity calculator to convert to molarity based on nucleic acid length and measured concentration. Required weight, concentration, or molarity can be easily normalized via the normalization calculator, which replaces spreadsheet calculations for standard normalization during sequence library preparation.

Calculator

Samples15Standards2

☐ Include overage (1 extra tubes)

Results

Dye	17	μL
Buffer	3383	μL
Total volume	3400	μL

Done

Calculator

Assay1x dsDNAUnitng/μLVolumeg10

Range	Sample Concentration(ng/μL)
Extended low	0.0100~0.0200
Core	0.0200~10
Extended high	>10~12

Done

Calculator

Final molarity: 1.0 nM Final volume: 200.0 μL

Filling list

Conc. ratio

Initial Conc.

Sample	Add sample(μL)	Add buffer(μL)
S1	2.99	197.01
S2	2.99	197.01
S3	3.00	197.00
S4	3.00	197.00
S5	3.03	196.97
S6	2.99	197.01
S7	3.00	197.00
S8	3.01	196.99

Calculator

MolarityNormalization

Desired unitsng/μLto nM

Molecular weight660g/mol

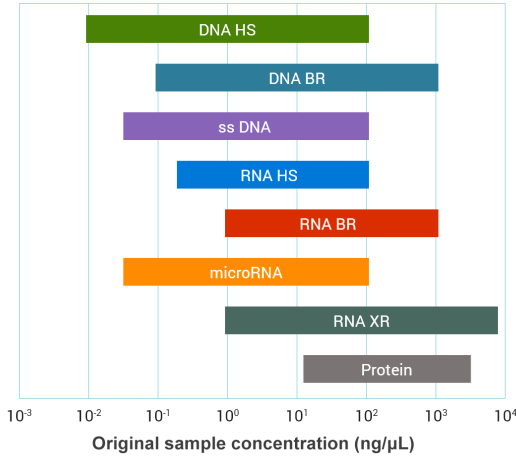
☐ Auto-populate DNA length

Sample	Original Conc.(ng/μL)	Length (bp)	Molarity(nM)
S1	8.83	200	66.87
S2	8.83	200	66.88
S3	8.80	200	66.63
S4	8.81	200	66.77
S5	8.72	200	66.05
S6	8.84	200	66.97
S7	8.81	200	66.73
S8	8.77	200	66.46

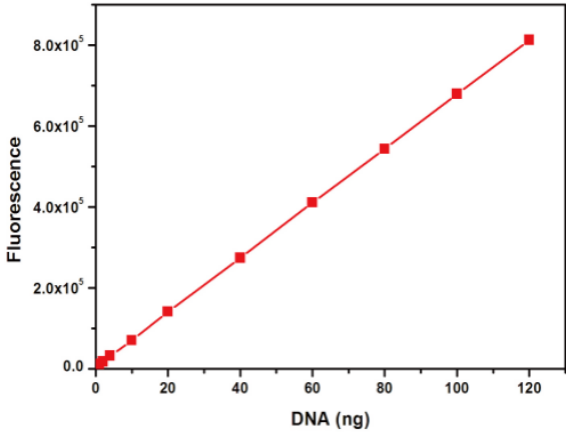
Calculate

» Performance Test

Common Samples and Quantitative Ranges



Allsheng® High Sensitivity dsDNA Quantification Kit with Linear Quantitation Range of 0.2–100 ng



## Fluo-200 Mini / Fluo-800 Mini

The new Fluo-200 Mini and Fluo-800 Mini utilize intelligent hardware and software innovations, eliminating the constraints of a built-in display. The compact design effectively reduces the instrument's footprint, making them suitable for both laboratory and on-site testing.



### Fluo-200 Mini

- **Efficient Response**

Accurate quantification of DNA, RNA, and protein within 2s

- **High Sensitivity**

LOD down to 0.1 pg/μL (dsDNA)

- **Automatic Detection**

It can intelligently recognize the status of the lid to enable continuous sample detection



### Fluo-800 Mini

- **High Throughput**

Simultaneous measurement of 8 samples

- **Rapid Detection**

Complete analysis of 8 samples in under 6s

- **High Sensitivity**

Lowest detection limit down to 1 pg/μL (dsDNA)





## » Feature

### Smart and Handy

It supports control via mobile phones / tablets (with the Android APP), enabling real-time data viewing, and realizing the collaboration between the fixed terminal in the laboratory and the mobile terminal.

### Micro-Samples

Only 1-20  $\mu\text{L}$  of the sample is required to complete the high-precision detection, reducing the consumption of precious reagents.

### Advanced Applications

It can monitor the changes of fluorescence signals in real time during kinetic detection, generate a time-fluorescence intensity curve, and support trend analysis.

### Open Reagent Application

Compatible with almost all test kits on the market.

## » Flexible Operation



### Multiple Connectivity

Supports Bluetooth wireless connection or OTG cable connection, covering complex operation scenarios. The Fluo-200 Mini can also be charged via a Android phone / tablet.



### Versatile Operation

Tablet operation or physical buttons.



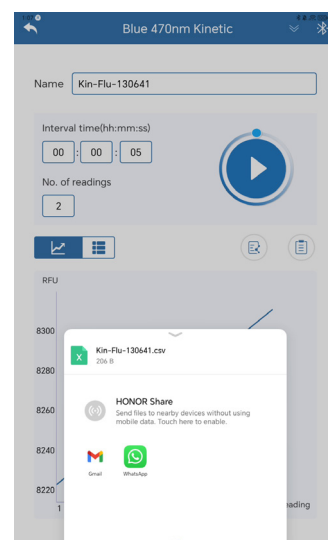
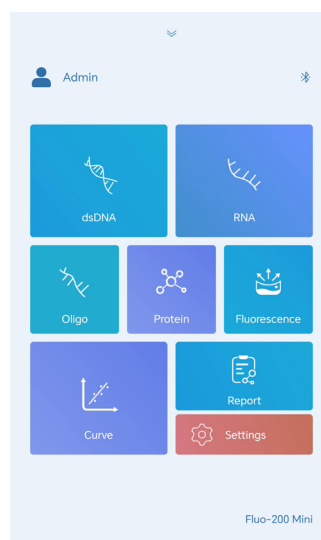
### Intuitive Interface

Modular function selection and intuitive detection interface.



### Data Sharing

Generate PDF and CSV reports with just one click and send them directly via email.



## Specification

	Fluo-200	Fluo-800	Fluo-200 Mini	Fluo-800 Mini
Light source	LED	LED	LED	LED
Excitation filter	Blue: 470±15 nm Red: 625±20 nm	Blue: 470±15 nm Red: 625±20 nm	Blue: 470±15 nm Red: 625±20 nm	Blue: 470±15 nm Red: 625±20 nm
Emission filter	Green: 525-570 nm (45 nm) Red: 670-725 nm (55 nm)	Green: 525-570 nm (45 nm) Red: 670-725 nm (55 nm)	Green: 525-570 nm (45 nm) Red: 670-725 nm (55 nm)	Green: 525-570 nm (45 nm) Red: 670-725 nm (55 nm)
Detector	Photodiodes 320-1100 nm	Photodiodes 320-1100 nm	Photodiodes 320-1100 nm	Photodiodes 320-1100 nm
Throughput	1	8	1	8
Sample tube type	0.5 mL PCR tube	0.2 mL PCR tube	0.5 mL PCR tube	0.2 mL PCR tube
Linear	$r^2 \geq 0.995$	$r^2 \geq 0.995$	$r^2 \geq 0.995$	$r^2 \geq 0.995$
Linear range	5 orders of magnitude	4 orders of magnitude	5 orders of magnitude	4 orders of magnitude
Sensitivity (detection limit)	<0.1 pg/μL (dsDNA HS)	<1 pg/μL (dsDNA HS)	<0.1 pg/μL (dsDNA HS)	<1 pg/μL (dsDNA HS)
Measurement time	≤5 s/sample	≤6 s/8 samples	≤2 s/sample	≤6 s/8 samples
Operation	7-inch touch screen	7-inch touch screen	Tablet (Android)	Tablet (optional)
Power adapter	24V 2A	24V 2A	5V 2A	5V 2A
External port	USB (Type A) ×2 USB (Type B) ×1 LAN ×1	USB (Type A) ×2 USB (Type B) ×1 LAN ×1	USB (Type A) ×1 USB (Type C) ×1	USB (Type A) ×1 USB (Type C) ×1
Dimension (W×D×H)	286×161×61 mm	286×161×75 mm	83×83×92 mm	168×134×101 mm
Weight	1.5 kg	2.0 kg	0.5 kg	1.5 kg
Storage capacity	20000	20000	/	/

## Ordering Information

Code	Product description	Code	Product description
AS-18050-00	Fluo-200 fluorometer (Blue & Red)	RS-FL0101-S	Allsheng® high sensitivity dsDNA quantification kit (100 assays)
AS-18060-00	Fluo-800 fluorometer (Blue & Red)	RS-FL0101-M	Allsheng® high sensitivity dsDNA quantification kit (200 assays)
AS-18070-00	Fluo-200 Mini fluorometer (Blue & Red)	RS-FL0101-L	Allsheng® high sensitivity dsDNA quantification kit (1000 assays)
AS-18080-00	Fluo-800 Mini fluorometer (Blue & Red)	RS-FL0102-S	Allsheng® broad range dsDNA quantification kit (100 assays)
AS-18070-01	Tablet (optional)	RS-FL0102-M	Allsheng® broad range dsDNA quantification kit (200 assays)
		RS-FL0102-L	Allsheng® broad range dsDNA quantification kit (1000 assays)

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