

Fluorometer Series

Fluorometer-100

Features

- Simple and intuitive——7 inch color touch screen
- High throughput——8 samples per run
- Fast detection——8 samples can be detected in 6 s
- Accurate quantification——high accuracy with only 1-20 μL samples
- High sensitivity——the lowest detection limit can be 1 pg/ μL (dsDNA)
- Stores results——up to 20000 programs can be stored
- Dual channel detection——adapt to more dyes
- Data export——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
- Intuitive Interface Display
- Reagent Concentration Calculator
- Sample Concentration Analysis
- NGS Workflow Calculator

Description

The new fluorometer Fluorometer-100 and is used for high sensitivity quantitative analysis of DNA, RNA and protein. Fluorometer-100 is available to do the fluorescence detecting for 8 samples in simultaneous. 8 channels, 0.2mL 8-line PCR tube, blue and red dual channels, 4 orders of magnitude detection range, the lowest detection limit 1pg/uL (dsDNA), 7-inch touch screen.

High precision detection method reduces the variation effectively. Easy and humanized software, intuitive user interface and rapid test method greatly shorten the testing time.

Model	Feature
Fluorometer-100	8 channels, 0.2mL 8-line PCR tube, blue and red dual channels



Specification

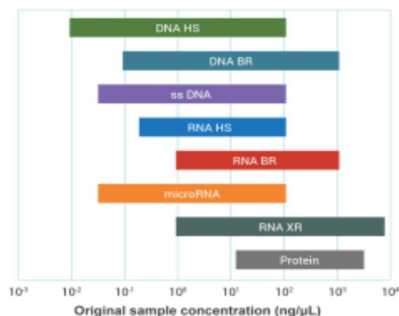
Model	Fluorometer-200	Fluorometer-100
Light source	LED	LED
Excitation filter	Blue: 460±20 nm Red: 625±20 nm	Blue: 460±20 nm Red: 625±20 nm
Emission filter	Green: 525-570 nm (45 nm) Red: 670-725 nm (55 nm)	Green: 525-570 nm (45 nm) Red: 670-725 nm (55 nm)
Detector	Photodiode	Photodiode
Throughput	1	8
Sample tube type	0.5 mL PCR tube	0.2 mL tube strip
Linear	$r^2 \geq 0.995$	$r^2 \geq 0.995$
Linear range	5 orders of magnitude	4 orders of magnitude
Sensitivity (detection limit)	<0.1 pg/μL (dsDNA HS)	<1 pg/μL (dsDNA HS)
Measurement time	≤5 s/sample	≤6 s/8 samples
Input power	24 V 2 A	24 V 2 A
Operating voltage	100-240 V@50-60 Hz	100-240 V@50-60 Hz
External port	USB (Type A) ×2, USB (Type B) ×1, LAN ×1	USB (Type A) ×2, USB (Type B) ×1, LAN ×1
Display	7-inch touch screen	7-inch touch screen
Dimension (D×W×H)	286 mm×161 mm×61 mm	286 mm×161 mm×75 mm
Weight	1.5 kg	2 kg
Storage capacity	20000 programs	20000 programs

Ordering Information

Code	Description
AS-18050-00	Fluorometer-200 fluorometer (Blue & Red)
AS-18060-00	Fluorometer-100 fluorometer (Blue & Red)
RS-FL 0101-S	Optosky® high sensitivity dsDNA quantification kit (100 assays)
RS-FL 0101-M	Optosky® high sensitivity dsDNA quantification kit (200 assays)
RS-FL 0101-L	Optosky® high sensitivity dsDNA quantification kit (1000 assays)
RS-FL 0102-S	Optosky® broad range dsDNA quantification kit (100 assays)
RS-FL 0102-M	Optosky® broad range dsDNA quantification kit (200 assays)
RS-FL 0102-L	Optosky® broad range dsDNA quantification kit (1000 assays)

Performance Test

- Common samples and quantitative range



- Optosky High Sensitivity dsDNA Quantification Kit with linear quantitation range of 0.2- 100 ng.

