

**The FLR200HS** Fluorometer is a cutting-edge instrument designed to deliver rapid and accurate quantification of DNA, RNA, and proteins. By utilizing advanced fluorescence technology, this device enables researchers to efficiently analyze a wide range of biological samples.

## FEATURES

- Rapid Analysis:**  
 Achieve precise measurements in just 2.5 seconds per sample.
- High Sensitivity:**  
 Detect even minute quantities of biomolecules, with a lower limit of 10 pg/μL (original sample concentration) for dsDNA.
- Minimal Sample Volume:**  
 Obtain reliable results using sample volumes as small as 1-20 μL.
- Versatile Applications:**  
 Employ various dyes with pre-configured or custom standard curves to suit diverse experimental needs.
- Intuitive Interface:**  
 The 5.7-inch touchscreen provides a user-friendly experience, simplifying operation.
- Robust Data Storage:**  
 Store up to 10,000 programs and export data conveniently via USB drive.



## APPLICATIONS

The FLR200HS Fluorometer is a valuable tool for numerous applications in life science research, including

Nucleic Acid Quantification	Protein Quantification	NGS Library Preparation	Western Blot Analysis
Precise measurement of DNA and RNA concentrations for molecular biology experiments.	Accurate determination of protein levels for biochemical and cellular studies.	Efficient quantification for quality control of NGS libraries to optimize sequencing workflows.	Quantitative analysis of protein expression levels.

## SPECIFICATIONS

Light sources	Blue LED (470nm peak)
	Red LED(635nm peak)
Excitation filters	Blue (450 - 490nm)
	Red (615-655nm)
Emission filters	Green (530 - 570nm)
	Red (680 - 720nm)
Detectors	Photodiodes: measuring range 310 - 1000nm
Calibration type	2 or 3-point standard
Throughput	1
Sample volume	1-20μL
Sample tube	0.5mL PCR tube
Measurement time	2.5 seconds/sample
Dynamic range (dsDNA)	5 orders of magnitude
Limit of detection	<10pg/ul (dsDNA original sample concentration)
Stability	<1.5%
Repeatability	<1.5%
Display	5.7-inch touchscreen
External ports	2xUSB-A
Storage capacity	4GB (10,000 programs)
Power input	110-240VAC, 50-60Hz
Operating temperature	5-40°C
Operating humidity	20-80%
Weight	0.7kg
Size(Wx Dx H)	135× 245× 50mm

