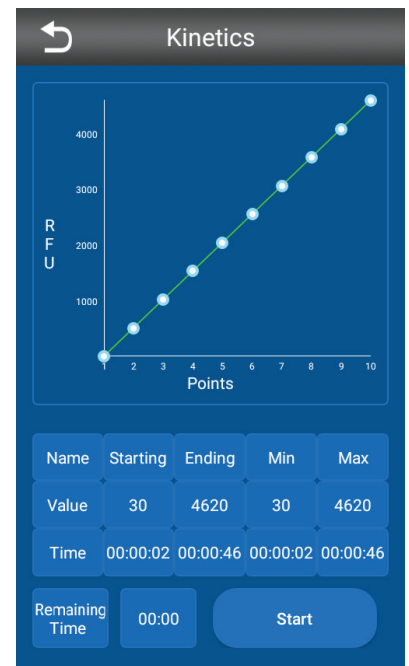
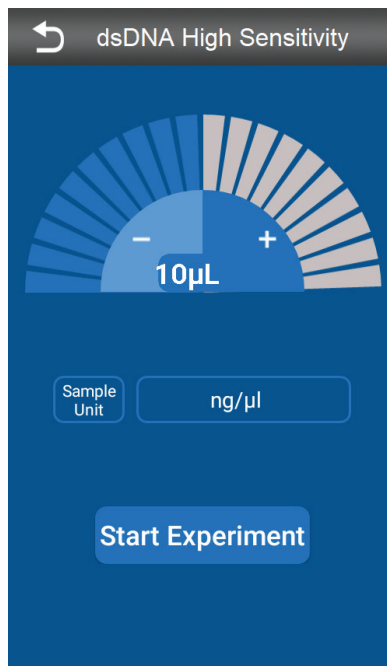


VWR® Fluorometer

The VWR® Fluorometer is a convenient benchtop instrument capable of precise quantification of DNA, RNA, microRNA, oligos (ssDNA) and proteins. With intuitive operation via the LCD touch screen, this instrument is compatible with a full range of quantification assay kits available from VWR and other leading suppliers.

- Sensitive quantitation down to 0.1 pg/μl dsDNA
- 5" Color touch screen for programming and operation
- Sample detection and calculation in less than 5 seconds
- Requires as little as 1 μl of sample mixed with a fluorescent working solution
- Compact and portable (9.5" x 4.25" / 24 x 11 cm footprint)



The icon-driven software allows the user to quickly select an appropriate assay and follow the required steps for creating a standard curve and measuring unknown samples.

The VWR Fluorometer performs accurate and precise molecular quantification by fitting fluorescence measurements from an unknown sample to an established calibration curve. The icon-driven software allows the user to quickly select an appropriate assay and follow the required steps for creating a standard curve and measuring unknown samples. A small volume (1 - 20 μ l) of an unknown sample is mixed with a fluorescent working solution in a 0.5-ml quantification tube to a final volume of 200 μ l. The tube is then inserted into the fluorometer's sample port for measurement.

Fluorometer Mode allows for basic fluorescence measurements using excitation wavelengths of 460 – 480 nm (blue) or 630 – 650 nm (red).

Kinetics Mode is used to observe the change in fluorescence detection over time. The user can select the number of readings (interval points) and the time interval between readings (interval time) for a kinetic assay. The resulting curve can be viewed in real time as data is collected during the run.

All results are saved in memory and searchable by date and time. Results can be exported to a USB drive and transferred to a PC as an Excel file.

Specifications

Sample volume	200 μ l
Sample throughput	1
Compatible tubes	0.5-ml quantification tubes (VWR Cat. No. 210-000166)
Test time	$\leq$ 5 seconds/sample
Linearity range	5 orders of magnitude
Light source	LED
Excitation wavelength	Blue 460 – 480 nm, Red 630 – 650 nm
Emission wavelength	Green 500 – 535 nm, Red 670 – 710 nm
Detector	SiPMT
Sensitivity	dsDNA: 0.01 ng/ μ l, ssDNA: 0.05 ng/ μ l, RNA: 0.25 ng/ μ l, microRNA: 0.05 ng/ μ l
Calibration	2 points
Operation/display	5" Touch screen
Power	5V, 2A, 10W, DC
Working environment	15-30 $^{\circ}$ C, <75% RH, indoor use
Dimension	4.25" x 9.5" x 3" (110 x 241 x 76 mm)
Weight	1.3 lb (0.6 kg)



A full range of quantification kits are also available for use with the VWR Fluorometer and fluorometers from other suppliers.

Ordering information:

Description	Cat. No.
VWR Fluorometer, 115 - 230V	VWRI210-000157
VWR dsDNA High-Sensitivity Quantification Kit, 100 assays	VWRI210-000159
VWR 1X dsDNA High-Sensitivity Quantification Kit, 100 assays	VWRI210-000160
VWR dsDNA Broad-Range Quantification Kit, 100 assays	VWRI210-000161
VWR 1X dsDNA Broad-Range Quantification Kit, 100 assays	VWRI210-000162
VWR ssDNA Quantification Kit, 100 assays	VWRI210-000163
VWR RNA High-Sensitivity Quantification Kit, 100 assays	VWRI210-000164
VWR RNA Broad-Range Quantification Kit, 100 assays	VWRI210-000165
Quantification tubes, 0.5 ml, pack of 250	VWRI210-000166