



FLUOROMETER LFFM-A1 SERIES

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Fluorometer LFFM-A10

Fluorometer LFFM-A10 is the next generation of benchtop dual-channel Fluorometer, features 365 ± 20 nm and 460 ± 20 nm excitation filter and measures dsDNA concentration with high sensitivity lower DNA detection limit of 0.5 ng/ul. It offers UV and blue channel fluorescence to measure fluorescence intensity of fluorescent reagent that combines with target molecule to read concentration of sample. Designed to accurately detect high-sensitive fluorescence while quantifying DNA, RNA, and protein.

Fluorometer LFFM-A11

Fluorometer LFFM-A11 is the next generation of benchtop dual-channel Fluorometer, features 460 ± 20 nm and 625 ± 20 nm excitation filter and measures dsDNA concentration with high sensitivity lower DNA detection limit of 0.5 ng/ul. It offers blue and red channel fluorescence to measure fluorescence intensity of fluorescent reagent that combines with target molecule to read concentration of sample. Designed to accurately detect high-sensitive fluorescence while quantifying DNA, RNA, and protein.

Fluorometer LFFM-A12

Fluorometer LFFM-A12 is the next generation of benchtop dual-channel Fluorometer, features 460 ± 20 nm and 525 ± 20 nm excitation filter and measures dsDNA concentration with high sensitivity lower DNA detection limit of 0.5 ng/ul. It offers blue and green channel fluorescence to measure fluorescence intensity of fluorescent reagent that combines with target molecule to read concentration of sample. Designed to accurately detect high-sensitive fluorescence while quantifying DNA, RNA, and protein.

FEATURES

- Designed with 4.3 inch touch screen, small and easy to use
- Easy measurement within 3 sec for DNA, RNA, and protein
- High sensitivity lowest DNA detection limit is 0.5pg/ul
- Linear dynamic range with five orders of magnitude
- Equipped with two fluorescence channels for nucleic acid, protein quantitation in one detection
- Offers opening system
- Adopts PCR tube adapter
- It can save at most 1,000 data and output data by USB port

APPLICATIONS

Fluorometer is used for processing scarce and difficult samples, for low quantity of DNA, RNA, or protein after extraction, also, in expensive experiments: qPCR, PCR cloning, transfection, the next generation sequencing and etc. Applied for Nucleic acid quantification, Plant GUS reporter gene detection, Apoptosis detection.

SPECIFICATION

Model	LFFM-A10	LFFM-A11	LFFM-A12
Dynamic range	Five orders of magnitude	Five orders of magnitude	Five orders of magnitude
Linear dynamic range	$R^2 > 0.995$	$R^2 > 0.995$	$R^2 > 0.995$
Processing time	3s (Once)	3s (Once)	3s (Once)
Light source	UV LED	Blue LED	Blue LED
	Blue LED	Red LED	Green LED
Excitation filters	365±20nm	460±20nm	460±20nm
	460±20nm	625±20nm	525±20nm
Emission filters	420 to 480nm (60nm)	525 to 570nm (45nm)	525 to 570nm (45nm)
	525 to 570nm (45nm)	670 to 725nm (55nm)	575 to 640nm (65nm)
Detector	Photodiode	Photodiode	Photodiode
Repeatability	<1.5%	<1.5%	<1.5%
Stability	<1.5 %	<1.5 %	<1.5 %
Sensitivity	dsDNA: 0.5ng/ml	ds DNA: 0.5 ng/ml	ds DNA: 0.5 ng/ml
Dimension	194 × 155 × 72.5 mm	194 × 155 × 72.5 mm	194 × 155 × 72.5 mm
Weight	0.4 kg	0.4 kg	0.4 kg

STANDARD ACCESSORIES

Accessories no.	Name
1	Adapter for 0.5 ml qPCR tube

OPTIONAL ACCESSORIES

Accessories no.	Name
1	Adapter for 0.2 ml qPCR tube