Fluorometer

Model **MSFLUO200SWISS** | Brand **Master Science**



Fluorometer

The MSFLUO200SWISS Fluorometer is a state-of-the-art device crafted to deliver swift and accurate quantification of DNA, RNA, and proteins. Utilizing advanced fluorescence technology, it supports researchers in diverse life sciences applications by offering precise, efficient, and user-friendly analysis.

KEY HIGHLIGHTS

- High Sensitivity

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Overview

The MSFLUO200SWISS Fluorometer combines advanced technology, compact design, and intuitive operation, making it a versatile and reliable tool for life sciences laboratories.

Compatible with various fluorescence dyes, pre-configured, or custom standard curves for experimental flexibility.

Key Features

High Sensitivity
Detects low biomolecule concentrations, with a limit of detection as low as 10 pg/µL (dsDNA original concentration).

Technical Specifications

GENERAL	
General	Rapid AnalysisDelivers precise measurements in as little as 2.5 seconds per sample.
General	Minimal Sample VolumeRequires only 1–20 µL for reliable results.
General	User-Friendly InterfaceEquipped with a 5.7-inch touchscreen for intuitive operation.
General	ParameterDetails
General	Light SourceBlue LED (470 nm), Red LED (635 nm)

GENERAL	
Excitation FilterBlue	470 ± 20 nm, Red: 635 ± 20 nm
Emission FilterGreen	550 ± 20 nm, Red: 700 ± 20 nm
General	DetectorPhotodiodes
General	Throughput1
General	Sample Volume1–20 µL
General	Sample Tube0.5 mL PCR tube
General	Measurement Time/Sample2.5 seconds
General	Dynamic Range (dsDNA)5 orders of magnitude
Limit of DetectiondsDNA	<0.05 pg/µL
General	Stability/Repeatability<1.5%
General	Display5.7-inch touchscreen
General	External PortWi-Fi, 2×USB-A
General	Storage Capacity10,000 programs
General	Power SupplyAC 100–240 V, 50/60 Hz
General	Power Input12 V, 3 A
General	Operating Temperature5–40°C
General	Operating Humidity20–80% (non-condensing)
General	Weight0.8 kg
General	Dimensions (W×L×H)136×246×51 mm
General	Data ManagementSupports up to 10,000 program storage and USB data export for convenience.

ADDITIONAL INFORMATION	
Nucleic Acid Quantification	Accurate DNA and RNA measurements for molecular biology experiments.
Protein Quantification	Precise protein level determination for cellular and biochemical studies.
NGS Library Preparation	Ensures optimal quantification for Next-Generation Sequencing workflows.
Western Blot Analysis	Facilitates quantitative analysis of protein expression levels.

Standard Accessories Included

- FLR-dsDNA: Description: 1X dsDNA HS Assay Kit
- Quantitation Range: 0.5–100 ng
- Initial Sample Concentration: 0.025–100 ng/µL
- Number of Assays: 100T
- FLR-ssDNA: Description: 1X ssDNA HS Assay Kit
- Quantitation Range: 0.5–200 ng
- Initial Sample Concentration: 0.025–200 ng/µL
- Number of Assays: 100T
- FLR-RNA: Description: RNA HS Assay Kit
- Quantitation Range: 0.5–200 ng
- Initial Sample Concentration: 0.025–200 ng/µL
- Number of Assays: 100T