Microvolume UV/Vis Nano Spectrophotometer – MSTQZVX211SWISS

Brand **Master Science**



Microvolume Spectrophotometer

These features address common lab pain-points — sample scarcity, long preparation times, need for accuracy, and streamlined data workflow — making MSTQZVX211SWISS a smart investment for modern laboratories.

KEY HIGHLIGHTS

- Quick measurement <6s without dilution or separate PC
- High wavelength/absorbance precision reduces variability
- Simplified data management
- Additional Information

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Key Benefits

MINIMAL SAMPLE WASTE, MAXIMUM VALUE

Quick measurement <6s without dilution or separate PC
ideal when handling large numbers of samples or tight schedules.

High wavelength/absorbance precision reduces variability
critical for experiments needing reproducible concentration measurements e.g. nucleic acid quantification, protein assays .

COMPACT & SPACE-EFFICIENT

Simplified data management

Additional Information
The MSTQZVX211SWISS Microvolume UV/Vis Nano Spectrophotometer is a powerful, precise, and efficient instrument designed to meet the demanding needs of modern research and analytical labs. By combining ultra-low sample volume requirements, rapid measurement, broad detection ranges, and stand-alone ease of use, it solves common pain-points — sample scarcity, time constraints, and data accuracy — helping labs streamline nucleic acid, protein, and microbial analysis with confidence and reliability.

Technical Specifications

GENERAL	
General	Sample Volume0.5 µL ~ 2.0 µL
General	Path Optical Length0.05 mm, 0.2 mm, 1.0 mm
General	Light SourceXenon flash lamp flicker lifetime > 10^9 cycles
General	Detector2048-element CMOS silicon array
General	Wavelength Range180–910 nm
General	Wavelength Accuracy±1 nm
General	Wavelength Precision±0.2 nm
General	Spectral Resolution≤ 1.5 nm FWHM @ Hg 253.7 nm
General	Absorbance Precision0.002 Abs
General	Absorbance Accuracy±1% at 7.332 Abs, 260 nm
General	Absorbance Range equivalent to 10 mm path0.04 – 300 A; For OD600 cuvette mode: 0 – 4.0 A
Nucleic Acid Detection RangedsDNA	**2–15,000 ng/µL; ssDNA: 1.32–9,900 ng/µL; RNA: 1.6–12,000 ng/µL**
General	Detection Time< 6 seconds
General	Sample Pedestal Material304 Stainless Steel and Quartz Fiber
General	Dimensions W × D × H270 × 210 × 196 mm
General	Weight~3.4 kg
General	Ultra-low sample consumptionUses just 0.5–2.0 µL per measurement — perfect when working with precious or limited biological samples DNA, RNA, proteins, microbial cultures .
General	No dilution needed — direct measurementEliminates dilution steps, saving time and reducing sample-handling errors, which improves accuracy and reproducibility.
General	Stand-alone operationBuilt-in 7″ capacitive multi-touch screen and Android-style interface mean you don’t need a separate computer — measures and stores data on a single unit.
General	Fast resultsMeasurement is completed in less than 6 seconds, speeding up workflows and ensuring rapid turnaround.
General	High sensitivity & broad usabilitySuitable for nucleic acids dsDNA, ssDNA, RNA , proteins e.g. BSA, IgG, Lysozyme , and microbial OD/OD600 measurements — versatile for molecular biology, biochemistry, microbiology labs.
General	Precision & reliabilityDelivers high wavelength and absorbance accuracy, offering confidence in quantitative results — critical for research, QC, and publication-grade data.
Protein Detection typicalA280	0.04–750 mg/mL; BSA: 0.06–1,119 mg/mL; IgG: 0.03–547 mg/mL; Lysozyme: 0.015–284 mg/mL
PowerDC 12 V, 4 A; Operational Power	48 W; Standby Power: < 6.5 W

For labs working with rare or expensive samples e.g. purified DNA/RNA, protein extracts, limited cell cultures , using only 0.5–2 µL dramatically conserves material.

Whether you need to measure nucleic acids, proteins, microbial OD600, or general absorbance — one instrument covers a broad range of applications.

With small footprint and light weight, it fits easily into crowded lab benches and can be moved if needed.

On-board data storage, USB export, and optional printer support simplifies record-keeping and integration into lab data workflows.