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EzDrop 1000C

Micro-Volume / Cuvette Spectrophotometer

SAMPLE QUANTIFICATION IN A TRICE

BLUE-RAY BIOTECH

Sample Quantification in a Trice

EzDrop 1000C Micro-Volume/Cuvette Spectrophotometer helps you make the most of your precious sample and time, providing measurement results within 3 seconds. The instrument offers dual modes for micro-volume and cuvette detection, as well as an intuitive touch screen for easy operation. These features combine to meet a wide range of nucleic acid and protein quantification requirements. EzDrop 1000C can be used as a standalone unit or connected to a PC for increased flexibility in the sample-to-data process.

Get Results within Seconds

Fast sample quantification in 3 seconds with adjustable pathlength selector helps to enhance your productivity.

Dual Measurement Modes

Choose between micro volume and cuvette modes and take advantage of a full wavelength range from 190 to 1000 nm for a wide range of applications, including nucleic acid and protein analysis, OD600 measurement, microarray and labeled protoein analysis, kinetics, and full spectrum scans.

Micro-Volume Mode

- Only 1 µL of undiluted sample is needed.
- The sample window is coated with a nano hydrophobic layer to stabilize the liquid column.
- The detection arm is cushioned to protect it from shock and impact during closure.

Cuvette Mode

EzDrop 1000C has built in 37- 45°C temperature control and stir functions to meet specific applications.

Intuitive Touch Screen for Easy Operations

Operation of the 7'' touchscreen is intuitive and allows the analysis of different samples with the touch of a button.

Assist Light for Perfect Placing of the Sample

The assist light minimizes sample placement errors caused by inadequate ambient lighting.

Flexible Data Management

EzDrop 1000C can be conveniently used as a standalone device, or connected to a computer for the easy generation of reports.

Specifications

Micro-Volume Mode

Minimum Sample Volume	1 µL
Pathlength	0.5 / 0.05 mm
Light Source	Xenon flash lamp
Detector Type	2048 element CMOS
Wavelength Range	190 - 1000 nm
Wavelength Accuracy	±1.0 nm
Spectral Resolution	1.5 nm (FWHM at Hg 253.7 nm)
Absorbance Precision	Raw: 0.0015 A (0.5 mm); 0.03 A (1 cm equivalent)
Absorbance Accuracy	1.5% at 1.0 A at 300 nm
Absorbance Range (1 cm equivalent)	0.04 - 400 A
Detection Range	dsDNA: 2 - 20000 ng/µL; BSA: 0.06 - 600 mg/mL
Measurement Time	< 3 seconds

Cuvette Mode

Pathlength	10, 5, 2, 1, 0.5, 0.2, 0.125, 0.1 mm
Absorbance Range (1 cm equivalent)	0.002 - 1.5 A
Detection Range	dsDNA: 0.3 - 75 ng/µL; BSA: 0.003 - 2.25 mg/mL
Stirring	8 Speeds (150 - 850 rpm)
Temperature Control	37 - 45℃ ±0.5℃ (Quartz Cuvette)

Software

Operating System	Custom Linux based OS
PC Software Requirement	Windows® 7 and 10, 64 bit

General

Display	7” touch screen, 1280*800 high-definition color display
Connectivity	USB-A port x1 (Data output); USB-B port x1 (PC connection)
Footprint Dimensions (W x D x H)	206 x 333 x 166 mm (8.1 x 13.1 x 6.5 In.)
Weight	3.3 kg (7.3 lbs.)
Glove Compatibility	All common lab gloves
Internal Storage	32 GB flash memory
Operating Voltage	Input: AC 100-240 V, 50/60 Hz; Output: DC 24 V, 2.08 A
Certifications	CE, UKCA

Specifications are subject to change without prior notice.

Ordering Information

BRED-1000C	EzDrop 1000C Micro-Volume / Cuvette Spectrophotometer
BRED-1000	EzDrop 1000 Micro-Volume Spectrophotometer
T01-000182-00	Nano-hydrophobic coating maintenance kit

219-110000-00	Quartz cuvette w/ cover
207-000535-00	Stirrer bar 6xΦ3mm