

# EzDrop 1000C

Micro-Volume / Cuvette Spectrophotometer

**SAMPLE QUANTIFICATION  
IN A TRICE**



# 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 protein analysis, kinetics, and full spectrum scans.

### Micro-Volume Mode

- Only 1  $\mu\text{L}$  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 $\mu$ L
Pathlength	0.5 / 0.05 mm
Light Source	Xenon flash lamp
Detector Type	2048 element CMOS
Wavelength Range	190 - 1000 nm
Wavelength Accuracy	$\pm$ 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/ $\mu$ L; 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/ $\mu$ L; BSA: 0.003 - 2.25 mg/mL
Stirring	8 Speeds (150 - 850 rpm)
Temperature Control	37 - 45°C $\pm$ 0.5°C (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 6x $\Phi$ 3mm



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