EzDrop Series

Micro-Volume / Cuvette Spectrophotometer

MORE THAN JUST SPEED

BLUE-RAY BIOTECH

More than just Speed

The EzDrop series Spectrophotometer delivers rapid results within 3 seconds and helps you make the most of your precious samples and time. It is perfect for daily routine acid and protein quantification. Choose either the micro-volume or cuvette mode and benefit from dynamic full-spectrum 190-1000nm detection. Use the EzDrop as a standalone unit or connect it to a PC for flexible sample-to-data processing. Experience effortless UV/Vis spectrophotometry with the EzDrop—enhancing efficiency at every step.

Why Do Researchers Choose EzDrop Series?

Get Results within Seconds
The fast sample quantification in 3 seconds and the adjustable pathlength selector improve your productivity.

Dual Measurement Flexibility
Choose between micro-volume and optional cuvette modes, and benefit from a full wavelength range from 190 to 1000nm for a wide range of applications, including nucleic acids, proteins, OD600, microarray, labeled protein analysis, kinetics, and full spectrum scans.

Intuitive 7" Touchscreen
Effortless sample analysis with diverse preprogrammed protocols is at your fingertips.

Flexible Data Management
Operate the EzDrop as a standalone unit or connect it to a PC for the easy generation of reports.

Micro-Volume Mode

- Only 1 μL of undiluted sample is needed.
- The nano-hydrophobic window coating ensures accurate and reproducible measurements.
- The cushioned detection arm provides shock protection during closure.
- The assist light eliminates sample placement errors in low light conditions.
- No routine calibration is required.

Advanced Cuvette Capabilities

- EzDrop 1000C has built in 37- 45°C temperature control and stirring functions for specific applications.
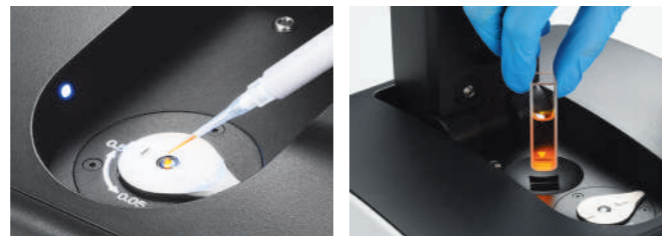
Choose the EzDrop Model suitable for your needs

	EzDrop 1000	EzDrop 1000C
Micro-Volume	✓	✓
Cuvette		✓
Applications	Common nucleic acid and protein quantifications	All applications of EzDrop 1000 plus OD600 and kinetics

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 (1000C only)

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°C ±0.5°C (Quartz Cuvette)

Software

Operating System	Custom Linux based OS
PC Software Requirement	Windows® 7, 10 and 11, 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

Specifications are subject to change without prior notice.

Ordering Information

BRED-1000	EzDrop 1000 Micro-Volume Spectrophotometer
BRED-1000C	EzDrop 1000C Micro-Volume / Cuvette Spectrophotometer
T01-000182-00	Nano-hydrophobic coating maintenance kit
219-110000-00	Quartz cuvette w/ cover
207-000535-00	Stirrer bar 6xΦ3mm

Authorized Distributor

CE

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ISO 13485