

EzDrop 1000C Spectrophotometer for Microvolume + Cuvette

Description

With EzDrop 1000C, measurements of sample concentrations can be carried out within three seconds. The device is equipped for the detection of both microvolumes and cuvettes.

EzDrop 1000C is operated via the intuitive touchscreen and meets a wide range of requirements for the quantification of nucleic acids and proteins.

The spectrophotometer can be used as a stand-alone device or connected to a PC.

EzDrop 1000C has a built-in temperature control from 37°C to 45°C and stirring functions for special applications.



Spektrophotometer EzDrop 1000C

Specifications

- Independent system with clear touchpad
- Multiple automated measurement functions allow you to quickly measure nucleic acids, proteins, cells, and other samples at the touch of a button.
- Sophisticated design: an additional light source compensates for the lack of ambient light and minimizes errors in sample placement (LED Assist Light, see Fig.).
- A special nano-hydrophobic layer on the sample window ensures the formation of a stable sample column.
- The sample glass can be completely replaced, significantly reducing the possibility of residual contamination
- CV absorbance value is < 1%.
- The special design of the detection arm reduces pressure, which in turn reduces the error rate in experiments.
- Data exchange: USB connection (csv-file)

Applications

- Nucleic acid and protein analysis
- OD600 measurement
- Analysis of microarrays and labeled proteins
- Kinetics
- Full spectrum scans



Fast sample
quantification
in 3 seconds.



Two measuring modes
Microvolume and
cuvette mode.



Flexible data management
As a stand-alone device or
combination with PC.

EzDrop 1000C Spectrophotometer for Microvolume + Cuvette



Dual Measurement Mode

Micro volume mode

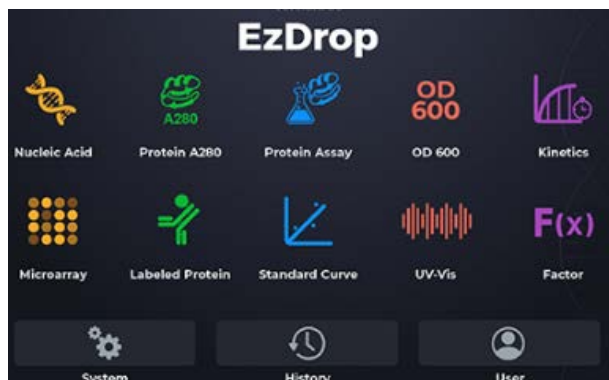
- Only 1 μL of undiluted sample is required
- The sample window is coated with a nanohydrophobic layer to stabilize the liquid column.
- The detection arm is padded to protect it from shocks and impacts when closed.

Cuvette mode

- EzDrop 1000C has an integrated temperature control of 37-45 $^{\circ}\text{C}$ and stirring functions for special applications.

Easy to Understand Touchpad

The operation of the 7" touch screen is intuitive and allows the analysis of different samples with just one keystroke.



Flexible Data Management

The EzDrop 1000C can be used as a stand-alone device or connected to a computer for report generation (csv-file).



Guaranteed Quality

A nanohydrophobic coating of the sample window ensures the formation of a stable sample column. The CV value of the absorbance is $< 1\%$.



Spectrophotometer EzDrop 1000C

Technical Data

Microvolume Mode	
Minimum sample volume	1 µl
Sample number	1
Pathlength	0.5 mm / 0.05 mm
Light source	Pulsed Xenon flash lamp
Detector type	2048 element CMOS
Wavelength range	190 – 1000 nm
Wavelength accuracy	1.0 nm
Spectral resolution	1.5 nm (FWHM bei Hg 253.7 nm)
Absorbance precision	Raw: 0.0015 A (0.5 mm); 0.03 A (1 cm equivalent)
Absorbance accuracy	1.5% bei 1.0 A und 320 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 sec
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°C ±0.5°C (Quartz Cuvette)



EzDrop 1000C

General Technical Data

Order No.	103.3910
Display	7" touch screen, 1280*800 high-definition color display
Connectivity	USB-A port x1 (Data output, csv-file); USB-B port x1 (PC connection)
Footprint dimensions (W x D x H)	206 x 333 x 166 mm
Weight	3.3 kg (7.3 lbs.)
Operability	Suitable for all laboratory gloves
Internal storage	32 GB flash memory
Operating voltage	Input: AC 100-240 V, 50/60 Hz; Output: DC 24 V, 2.08 A
Software	
Operating system	Custom Linux based OS
PC software requirements	Windows® 7 and 10, 64 bit