

## Avans CuvDrop™ Micro-volume Spectrophotometer

型號 : AUVS-102

CuvDrop™ spectrophotometer is the ideal solution for life scientists for whom flexibility of measurement is a key requirement. CuvDrop™ combines microvolume pedestal measurement(Platform Mode) and cuvette capability(Cuvette Mode) in a single instrument. CuvDrop™ is a complete UV-Vis solution for all common nucleic acid and protein concentration and purity measurements, in both microvolume and cuvette modes.

Features :

- Dual-mode UV-Vis spectrophotometer with micro-volume and cuvette capability
- Cuvette capability allows for kinetics (time or time / temperature studies) and cell culture (OD 600) measurements
- Cuvette position includes temperature control (37°C) and stirring
- In Platform Mode, the results of two light paths can be displayed simultaneously.
- Buttons of “Blank” & “Measurement” are on the shell, no need to use mouse.
- The light intensity is adjustable according to the sample concentrations to obtain stable measurements.
- Controlled by the computer software with data storage function.

**Platform Specifications :**

Instrument Type	Spectrophotometer
Minimum Sample Size	0.5 µl
Sample Number	1
Path Length	0.5mm & 0.1mm
Light Source(s)	Xenon flash lamp
Detector Type	3072 –element linear silicon CCD array

Wavelength Range	190 - 840 nm
Wavelength Accuracy	0.3nm
Spectral Resolution	1.3nm(FWHM at Hg546nm)
Absorbance Precision	0.003
Absorbance Accuracy	2%(at 0.76 at 257nm)
Absorbance Range	0.04-200Abs(10mm equivalent)
Detection Limit	2 ng/μl (dsDNA)
Maximum Concentration	10,000ng/ul(dsDNA)
Measurement Time	< 9 seconds
Footprint	14 x 20 cm
Weight	2.1 kg
Sample Pedestal Material of Construction	316 stainless steel and quartz fiber
Operating Voltage	12 vdc
Operating Power Consumption	12 - 18 W (max 30 W)
Standby Power Consumption	5 W
Software Compatibility	Windows 7, Vista (32 bit), XP (32 bit)

CuvDrop™ can be applied by the Users' Own Cuvettes depending on the wavelength range required and the sample volume available. CuvDrop™ offers a standard cuvette with the following specifications.

#### **Cuvette specifications**

Z-Height	13mm
Heating	37 ± 0.5 °C
Stirrer:	150-850 rpm
Path Length	10mm

Absorbance Range	0.005 – 1.5 Abs
Detection Limit	0.4 ng/μl (dsDNA)
Maximum Concentration	700 ng/μl (dsDNA)
Measurement Time	< 3 seconds
Cuvette Dimensions	12.5 mm x 12.5 mm, up to 48 mm H
Type	Masked cuvette