

ComfyDrop

a μ -vol UV/Vis spectrophotometer with WiFi



ComfyDrop™ gives highly accurate full spectrum measurements with micro-samples (spectrum range: 185 - 910nm). ComfyDrop™ is widely used in molecular biological experiments and in absorbance detection for the general substance analysis.

The variable pathlength of ComfyDrop™ realizes both the low sample volume detection and the detection to the high concentration samples without dilution. Additional cuvette position is also available.



Features

- **Wireless connection provides seamless data transfer**

WiFi connected PAD controls the detection, results display, and storage without cables.

- **Contain both pedestal and cuvette positions**

- **185-910nm ultra-wide continuous wavelength range**

Wide application, including detection of nucleic acid (DNA/ RNA), protein, and the concentration of other samples.

- **Accurate pathlength**

The unique double track technology (DPTL) allows the precision of optical pathlength 0.001mm, to achieve excellent repeatability of absorbance detection.

- **Unique design holder for easy pipetting**

- **Variable pathlength**

The user defined settings are available as the pathlength is larger than 1mm.

- **Stability for the long life**

Long life xenon flash lamp ensures stability of detection and the long life of instrument.

- **High sensitivity**

2,048 linear CCD detection unit provides higher sensitivity, accuracy as well as repeatability.

- **User-friendly software**

Automatically saves data and names file, and no need to worry about data losing.

Specifications

| Parameters | UVS-108 | UVS-108C | |
|------------------------------|---------------------------------------|----------|----------------|
| Detector | 2,048-element linear CCD array | | |
| Mini.Sample Amount (µl) | 0.5 | | |
| Mini. Pathlength (mm) | 0.05 | | |
| Wavelength Range (nm) | 185-910 | | |
| Wavelength Accuracy (nm) | ±1 | | |
| Spectral Resolution (nm) | ≤1.8 (FWHM at Hg 253.7nm) | | |
| Measurement Reproducibility | 0.002 (1mm optical length) | | |
| Absorbance Accuracy | 3% (at 0.86A at 257nm) | | |
| Limit of Detection | 2ng/µl dsDNA | | |
| Max. Detection Concentration | 15,000ng/µl dsDNA | | |
| Detection Time | < 5 Sec. | | |
| Cuvette mode | Heating Temp. (°C) | null | 37 ± 0.5 |
| | Mixing Speed (RPM) | null | 150 - 850 |
| | Optical Length (mm) | null | 10, 5, 2, 1 |
| | Limit Detection | null | 0.4ng/µl dsDNA |
| | Max. Detection Concentration | null | 750ng/µl dsDNA |
| Data Interface | USB | | |
| Wireless Connection | Wifi | | |
| Power | AC110V-220V 50HZ/60HZ (Power adapter) | | |
| NET Weight | 2.0KG | 2.1KG | |