

## NanoReady

### Micro UV-Vis Spectrophotometer



**NanoReady** Micro UV-Vis Spectrophotometer is a conventional laboratory equipment, not only widely used in molecular biological experiments such as DNA, RNA, protein detection, but also used in absorbance detection for the general substance analysis. It includes three common detections to the nucleic acids, nucleic acid markers and proteins. The variable path length of NanoReady realizes both the minimum sample volume detection as low as 0.5 $\mu$ L, suitable for precious samples, and the detection to the high concentration samples without dilution at all. Including the liquid drop, it builds in the standard cuvette detection module for more use.



#### Features

##### ✓ High sensitivity

2048 linear CCD detection unit, new-generation product of Hamamatsu, has higher sensitivity, accuracy as well as repeatability.

#### ✓ Stability for the long life

Long-life xenon flash lamp of Hamamatsu ensures stability of detection and the long life of instrument. The lifting detection base with sliding bearing structure has high precision, not easy to damage.

#### ✓ Variable pathlength

The minimum detection pathlength is 0.05mm; samples with high concentration can be detected directly without dilution. The maximum  $\sim 15000\text{ng}/\mu\text{L}$  dSDNA, the smallest detection volume of precious samples is 0.5 $\mu\text{L}$ . The user-defined settings are allowed if the pathlength is more than 1mm. The instrument has flexible and convenient detection function.



#### ✓ Ultra wide wavelength range

With continuous wavelength range as 185-910nm, the instrument can detect various samples through selecting any band. It adapts to a variety of detection requirements with wide range of near infrared wavelength.

#### ✓ Accurate pathlength

The stepper motor combined unique double track technology (DPTL), allows the precision of optical pathlength as 0.001mm, thus to achieve highly repeatability of absorbance detection.

**√ Cuvette detection modeCuvette detection mode**

The cuvette detection mode comes with magnetic stirring function. User can set the heating function and stirring speed for dynamic analysis detection. And the user can define different pathlength, such as 1mm, 2mm, 5mm,10mm(for Model: FC-1100 only).



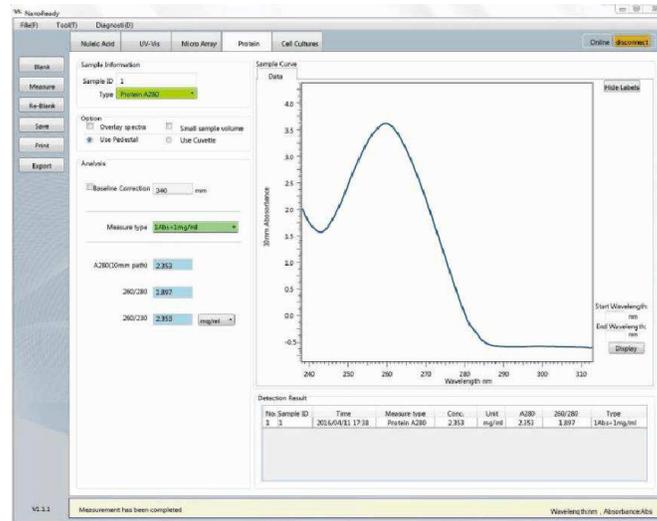
**√ Unique designed pipette holder for easy sample adding**

Auxiliary holder for adding liquid can ensure the accuracy of adding liquid during micro measurement. It is also suitable for other mainstream brands of micro UV-Vis Spectrophotometer in the market to achieve a stable and simple process of adding liquid.



### ✓ User-friendly software

The simple designed interface makes the software user friendly. It will save the detection data and name file automatically, and it is easy to review the files. There is no need to worry about the loss of experimental data. Set U disk upgrade interface, and maintain the latest and most complete function at any time.



### ✓ Wireless connection



WiFi connected PAD to control the detection and results display and storage without need the cables. Dynamic detection realizes remote controlling and timing reading the results without manual intervention.

### ✓ Multi-functions

#### ☐ **Nucleic acid detection**

Built-in common calculation formula of dsDNA, ssDNA, RNA, Oligo-DNA, Oligo-RNA, can get the concentration and purity of samples automatically.

#### ☐ **UV visible custom scanning**

In the full wavelength range, set the detected wavelength through increasing or decreasing wavelength with 1 nm as expected.

#### ☐ **Nucleic acid fluorescence marker detection**

Preinstall extinction factor of commonly used fluorescent dyes of dsDNA, ssDNA, RNA, Oligo-DNA, Oligo-RNA.

#### ☐ **Protein detection**

Can detect the concentration of protein solution, or detect protein concentration of dye marker, with built-in common detection methods of BCA, Bradford, Lowry, and Pierce 660nm.

#### ☐ **Nucleic acid fluorescence marker detection**

Preinstall extinction factor of commonly used fluorescent dyes of dsDNA, ssDNA, RNA, Oligo-DNA, and Oligo-RNA.

#### ☐ **Cell detection**

Can detect absorbance value at 600nm automatically. Meanwhile, it can detect absorbance value at any band under set wavelength range.

### Specifications

Parameters		FC-1100	F-1100
Detector		2048-element liner CCD array	
Mini. Sample Amount (µl)		0.5	
Mini. Path length (mm)		0.05	
Wavelength Range (nm)		185-910	
Wavelength Accuracy (nm)		±1	
Spectral Resolution (nm)		≤1.8(FWHMat Hg 253.7nm)	
Absorbance Accuracy		0.002 (1mm optical length)	
Absorption Accuracy		3%(at .74A at 350nm)	
Limit of Detection		2ng/µl dsDNA	
Max. Detection Concentration		15000ng/µl dsDNA	
Detection Time		<5 Sec.	
Cuvette	Heating Temp.(°C)	37±0.5	null
	Mixing Speed (RPM)	150-850	null
	Optical Length (mm)	10,5,2,1	null
Mode	Limit of Detection	0.4ng/µl dsDNA	null
	Max.Detection Concentration	750ng/µl dsDNA	null
Data Interface		USB	
Wireless Connection		Wifi	
Software Update		USB direct update	
Accessory		Pipette holder	
Power		AC110V-220V 50HZ/60HZ (Power adapter)	
NET Weight:		2.1KG	2.0KG

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