

## Micro-Spectrophotometer



### ► Features :

- **User-friendly software, easy to use**  
It is easy to use, free software updates are available
- **Micro-volumes measuring**  
Only require 0.5~2ml sample to accurately determine nucleic acids, proteins
- **Fast and easy measurements**  
Turn on and instantly measure without lamp warm up time; Easy measurement within 8 sec
- **Long life's Xenon flash lamp**  
Xenon flash lamp, 10 flashes, up to 10 years, no cells or cuvettes, no dilutions and expensive consumables
- **No consumables required**  
Direct microvolume measurements from 1–2mL of sample. Eliminates the need for expensive accessories
- **No computer required and with touch screen (919-300)**  
919-300 is equipped with Android system operation
- **The 919-100 / 919-300 are full range of wavelength (200-800nm) detection ability; The 919-400 is a basic UV spectrophotometer specifically designed (only three types of wavelength 230nm, 260nm and 280nm) for nucleic acids and proteins.**

### ► Highlights :

#### 919-100

- Turn on and instantly measure without lamp warm up time; Full scan capability from 200-800nm within 5 sec
- Detects Nucleic Acids up to 4500ng/ul (dsDNA)
- 3864-Element linear silicon CCD array

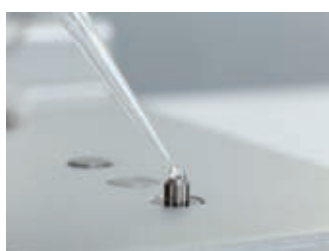
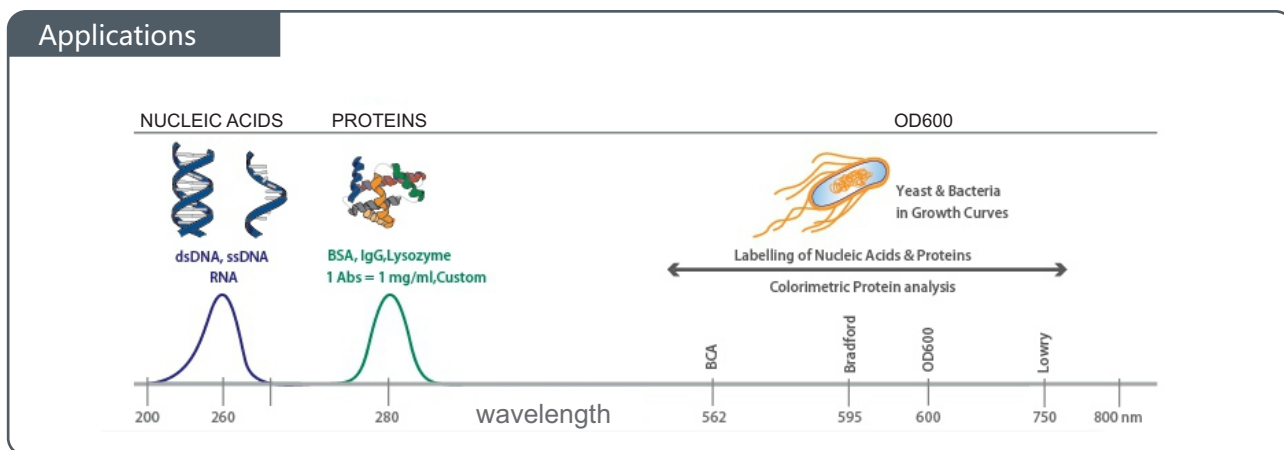
#### 919-300

- 919-300 is an improved Micro-Spectrophotometer based on 919-100 with 200-800nm. It is added a function of bacterium cell concentration detection (OD600)
- Android system operation, 7 inch touch screen no computer, APP soft, simple interface, easy to use
- Turn on and instantly measure without lamp warm up time; Full scan capability from 200-800nm within 6 sec
- The data can be printed with built-in printer, and can output via SD-RAM Card and USB memory
- When the 919-300 is ideally left more than 5mins, it will switch off automatically. Then, the user can awake the machine by touching the screen

#### 919-400

- Nano-400 is a basic micro-volume UV spectrophotometer designed (only 3 types of wavelength: 230nm, 260nm and 280nm) for the measurement of nucleic acids and proteins. It is added a function of bacterium cell concentration detection (OD600)
- Android system operation, 7 inch touch screen no computer, APP soft, simple interface, easy to use
- The data can be printed with built-in printer, the data can output via SD-RAM Card and USB memory
- Measure nucleic acids concentration at 260nm, and purity using the 260/280 ratio. Measure purified protein at 280nm

## Spectrophotometer



Adding Sample



Measuring Sample



Quick & Easy Clean

### ► Specifications :

| Cat. No.                    | 919-100  | 919-300                       | 919-400                |
|-----------------------------|--|-------------------------------|------------------------|
| Wavelength Range            | 200-800nm  | 200-800nm                     | 230nm, 260nm, 280nm    |
| Minimum Sample Size         | 0.5-2.0ml  |                               |                        |
| Path Length                 | 0.2mm (High concentration), 1.0mm (Ordinary concentration) |                               |                        |
| Light Source                | Xenon flash lamp   |                               |                        |
| Detector Type               | 3864-Element linear CCD array                              | 3864-Element linear CCD array | UV-sillion photocell   |
| Wavelength Accuracy         | 1nm  | 1nm                           | —                      |
| Spectral Resolution         | ≤3nm (FWHM at Hg546nm)                                     | ≤3nm (FWHM at Hg546nm)        | —                      |
| Absorbance Precision        | 0.003Abs   | 0.003Abs                      | 0.003Abs               |
| Absorbance Accuracy         | 1% (7.332Abs at 260nm)                                     | 1% (7.332Abs at 260nm)        | 1% (7.332Abs at 260nm) |
| Absorbance Range            | 0.02 - 90A   | 0.02 - 100A                   | 0.02 - 80A             |
| Detects Nucleic Acid upto   | 2-4500ng/ul (dsDNA)  | 10-5000ng/ul (dsDNA)          | 10-4000ng/ul (dsDNA)   |
| Measurement Time            | <8S  | <6S                           | <15S                   |
| Data Output                 | Connect PC   | USB                           | USB                    |
| Sample Pedestal Material    | Aluminum alloy and Quartz fiber                            |                               |                        |
| Operating Voltage           | 24V DC   |                               |                        |
| Operating Power Consumption | 20W  | 40W                           | 25W                    |
| Standby Power Consumption   | 5W   |                               |                        |
| Dimension (W x D x H)mm     | 200 x 250 x 166  | 210 x 268x181                 | 210 x 280 x 181        |
| Weight                      | 2.6kg  | 3.6kg                         | 3.6kg                  |
| Software Compatibility      | WinXP, Win7, Win8  | Android System                | Android System         |
| OD600nm Measurement         | 5W   |                               |                        |
| Light Source                | —  | LED                           | LED                    |
| Wavelength Range            | —  | 600±8nm                       | 600±8nm                |
| Absorbance Range            | —  | 0-4A                          | 0-4A                   |