



## AE-NANO Series MicroSpectrophotometer



### AE-NANO300

#### Key Features

- ⊙ **User-friendly software, easy to use:**  
It is easy to use, free software updates are available.
- ⊙ **Micro-volumes measuring:**  
Only require 0.5~2μl 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 1~2μL of sample. Eliminates the need for expensive accessories.
- ⊙ **No computer required and with touch screen (Nano-200, Nano-300)**  
Nano-300 is equipped with Android system operation.
- ⊙ **The Nano-100 / Nano-300 are full range of wavelength (200-800nm) detection ability:**  
The Nano-200 is a basic UV spectrophotometer specifically designed (only three types of wavelength 230nm, 260nm and 280nm) for nucleic acids and proteins.

#### Nano spectrophotometer AE-NANO300 Highlights:

- ⊙ Nano-300 is an improved Micro-Spectrophotometer based on Nano-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 Nano-300 is idly left more than 5mins, it will switch off automatically.
- ⊙ Then, the user can awake the machine by touching the screen.

#### ⊙ Ordering Information:

Model	AE-NANO100	AE-NANO200	AE-NANO300
Wavelength range	200~800nm	230nm, 260nm, 280nm	200~800nm
Minimum sample size	0.5~2.0ul		
Path length	0.2nm (High concentration); 1.0nm (Ordinary concentration)		
Light source	Xenonflash lamp		
Detector type	3864-Element linear silicon CCD array	Photodiode	3864-Element linear silicon CCD array
Wavelength accuracy	1nm	no	1nm
Spectral resolution	≤3nm (FWHM at Hg 546nm)	no	≤3nm (FWHM at Hg 546nm)
Absorbance precision	0.003Abs	0.002Abs	0.003Abs
Absorbance accuracy	1% (7.332 Abs at 260nm)		
Absorbance range	0.02-90A (10nm equivalent absorbance)	0.02-80A (10nm equivalent absorbance)	0.02-90A (10nm equivalent absorbance)
Detects Nucleic Acid up to	2~4500ng/ul (dsDNA)	10~4000ng/ul (dsDNA)	10~5000ng/ul (dsDNA)
Measurement time	<10s		
Dimensions (WxDxH)mm	200x250x166	210x268x181	210x268x181
Weight	2.6kg	2.8kg	3.0kg
Sample pedestal material	aluminum alloy and quartz fiber		
Operating voltage	24VDC		
Operating power consumption	20W	40W	40W
Standby power consumption	5W		
Software compatibility	windows 7, windows XP	Win CE	Android system
Absorbance range	no	no	0~3A
Light source	no	no	LED
Wavelength range	no	no	600±8nm