



## **LT-3101**

### **Touch Screen**

### **Bio Nano Spectrophotometer**

#### **DESCRIPTION:**

The INSTRUMENT is a full wavelength (190~850nm) ultra-micro spectrophotometer that does not require a computer. The INSTRUMENT provides fast and accurate detection of nucleic acids, proteins, and cellular solutions, and is equipped with a cuvette mode for the detection of bacteria and other cultures down to 0.5 ng/ $\mu$ l (dsDNA).

## FEATURES:

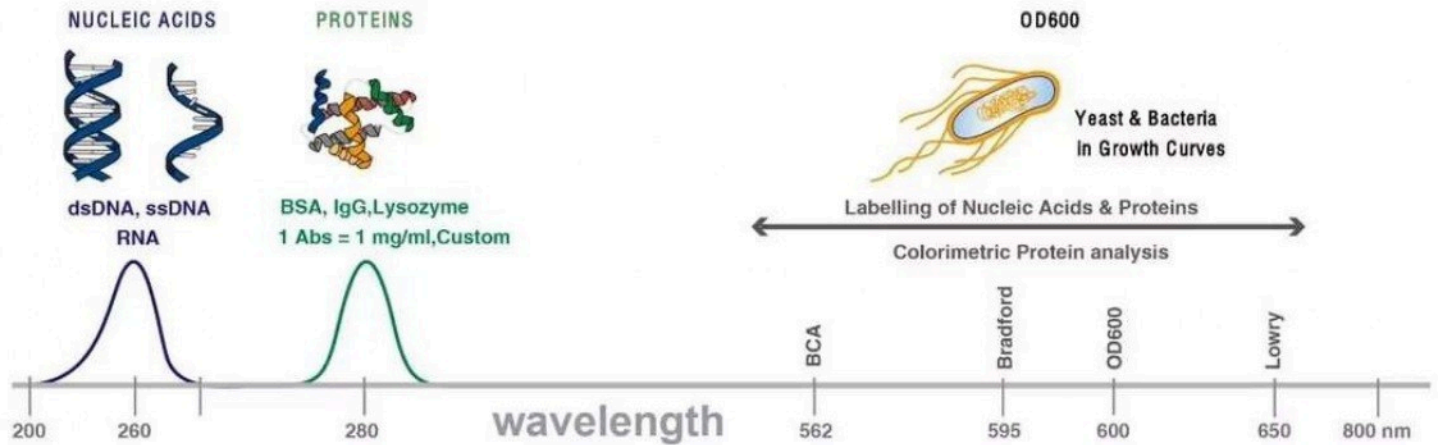
- Fluorescence function
- LED light source
- With OD600 bacterial solution, microbial detection
- Sample without dilution
- Three optical path detection technology is used
- The android operating system
- Built-in printer
- Strong repeatability and high linearity

## TECHNICAL PARAMETERS:

Model	LT-3101
4 light course	0.02mm,0.05,0.2mm,1.0mm
Detector	HAMAMATSU UV Enhanced CMOS LINE Array SENSING
Fluorescence Sensitivity	DsDNA: 0.5pg/ $\mu$ l
Fluorescence Linearity	$\leq 1.5\%$
Wavelength range	(190nm-850nm)
Sample Volume Requirements	0.5~2ul
OD600 Absorbance stability	0,3 $\leq$ 0.5%, 3,4 $\leq$ 2%
OD600 Absorbance accuracy	0,2 $\leq$ 0.005a 2,3 $\leq$ 1% 3,4 $\leq$ 2%,
OD600 Repeatability of absorbance	0,3 $\leq$ 0.5%, 3,4 $\leq$ 2%
OD600 absorbance range	0~6.000Abs
Absorbance accuracy	1%(7.332Abs at 260nm)
Spectral resolution	<1nm
Photometric accuracy	0.005Aor1%
Wavelength accuracy	within1nm
Wavelength reproducibility	<0.2nm
Sample wavelength scanning	190~850nm
Base measurement only	0.5~2ul
Sample base material	Quartz fiber and stainless steel
Detection time	<5S

Standby power consumption	5W
Data output method	USB
Light source	Xenon flash
Power adapter	24V DC
Power consumption	25W
Dimension	W200mm×D260mm×H165mm
Weight	5kg

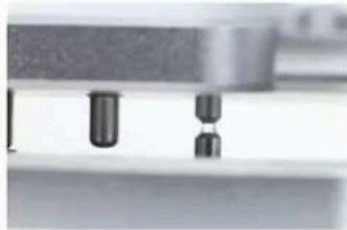
### Applications



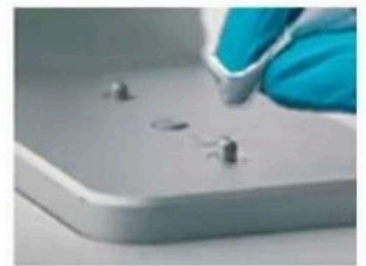
### Easy Handling



Adding sample



Measuring sample



Quick and easy cleaning