

## 2. Instrument Specifications and Operation notes

### 2.1 Instrument Specifications

**Table 2.1 Instrument Specifications**

Item		FC-3100	F-3100
Detector Type		2048-element linear CCD array	
Light source		xenon flash lamp	
Minimum Sample volume (µl)		0.5	
Light pathlength (mm)		0.03,0.05,0.1,0.2, 1.0 auto-ranging	
Wavelength upgrade		Not available	
Wavelength range (nm)		185-910nm	
Wavelength accuracy(nm)		±1	
Spectral bandwidth (nm)		≤1.8(FWHM at Hg 253.7nm)	
Measuring time		≤5 s	
Absorbance Accuracy		0.002Abs(1mm path) or 1%CV, whichever is bigger	
Absorbance Precision		±2%(at 0.86A at 257nm)	
Pedestal Minimum Concentration		2ng/µl dsDNA	
Pedestal Maximum Concentration		27500ng/µl dsDNA	
Photometric(Abs)		0-550(10mm equivalent)	
Cuvette	Heating (°C)	37±0.5	-
	Stirrer (RPM)	10-900RPM 10 speeds	-
	Photometric	0-1.5A (10mm)	-
	Limit of detection	0.2ng/µL dsDNA	-
Display		7 inch, 1280*800 high definition LCD, Multipoint capacitive touch, Gesture recognition	
Operating system		Android	
Internal storage		8GB	
Data transfer connector		USB, WIFI	
Power supply		AC110V-220V, 50Hz/60Hz by power adapter	
Net WT.		2.3KG	2.2KG