

## High Speed Automatic Polarimeter



BK-P532



BK-P533A

### Features:

- \* High response speed, less noise, and minimum transmittance makes measurement more accurate and efficient.
- \* LED light source that's lasts over 100,000 hours.
- \* The number of measurements can be set, and the average value can be calculated
- \* Equipped with multiple communication interfaces, data can be stored in real-time.
- \* Fast and stable temperature control minimizes measuring time.
- \* Comply with pharma standards and audit trail function is optional(Only for BK-P533A).
- \* Access control(4 grades) and 500 users accounts(Only for BK-P533A).

### Technical Parameters:

Model	BK-P532	BK-P533A
Measuring Mode	Optical rotation, specific rotation, concentration, international sugar scale	Optical rotation, specific rotation, concentration, international sugar scale, user defined
Light Source	LED + precision interference filters	
Wavelength	589nm(Sodium D spectrum)	
Measuring Range	±90°(OR) + 259°Z(ISS)	
Calibration Method	Multi-point automatic calibration	
Resolution	0.001°	
Accuracy	±0.004°	
Repeatability	≤0.002°	
Min. Transmission	0.1%	0.05%
Response Speed	8°/s	
Measuring Time	6 times/26s	
Temp. Control Range	Peltier temperature control: 10~50°C	
Temp. Accuracy	±0.2°C	±0.1°C
Display	8-inch color touch LCD	10-inch color touch LCD
Operating System	/	Android(LIMS-connectable)
GMP Regulations	/	Qualified
Electronic Signature /Data Traceability	/	Qualified
Audit Trail	/	Optional
Data Storage	10,000 sets	128G
Interface	RS232, USB, U disk	RS232, USB, U disk, keyboard, mouse, WiFi, ethernet
Standard Accessory	Test tube: 200mm(Regular); 100mm(Regular); 100mm(Temp. control)	
Optional Accessory	Test tube: 50mm(Regular); 200mm(Temp. control); thermal printer	Test tube: 50mm(Regular); 200mm(Temp. control); thermal printer, dot matrix printer, WiFi printer, audit trail software(FDA)
Consumption	200W	
Power Supply	AC 110/220V, 50/60Hz	
External Size(W*D*H)	702*376*240mm	
Package Size(W*D*H)	860*510*470mm	
Net Weight	20kg	
Gross Weight	35kg	

## Automatic Digital Polarimeter



### Introduction:

Polarimeter is an instrument for measuring the optical rotation of some substance. Through the measurement of optical rotation, it can analyze and determine the specific rotation, international sugar degree, concentration and purity of the substance, which is widely used in medicine, petroleum, food, chemical industry, flavor, fragrance, sugar and other industries as well as related universities and research institutes.

### Features:

- \* Built-in Peltier temperature control to improve accuracy and stability.
- \* It can determine optical rotation, specific rotation, concentration, sugar degree.
- \* LED cold light source instead of traditional sodium lamp and halogen tungsten lamp.
- \* Multi-level rights management, rights can be freely configured.
- \* 8-inch touch color screen, humanized operation interface.
- \* It meets 21 CFR requirements (electronic signature, data traceability, audit trail, data tamper prevention and other functions).
- \* Fully comply with GLP, GMP certification standards.

### Technical Parameters:

Model	BK-P610	
Light Source	LED cold light source+high precision interference filter	
Wavelength	589.3nm	
Measurement Method	Single, multiple, continuous measurement methods	
Measurement Range	Optical rotation±90°, sugar degree±259°Z, specific rotation±259°Z	
Optical Rotation	Least Count	0.001°
	Accuracy	±0.004°
	Repeatability	0.002°
Temperature	Temp. Range	10°C~55°C(Peltier)
	Temp. Resolution	0.1°C
	Temp. Accuracy	±0.1°C
Display	8 inch TFT touch color screen	
Standard Test Tube	200mm, 100mm(Regular), 100mm(Temp. control)	
Optional	Test tube, printer	
Transmittance	0.01%	
Data Storage	32G	
File Export	PDF and Excel	
Interface	USB, RS232, VGA, Ethernet	
Standard Accessory	Electronic signature, WIFI printing, automatic calibration, audit trial	
Optional Accessory	Cloud services, MD5 code verification, custom formula, printer	
Power Supply	AC 110/220V, 50/60Hz	
Power	250W	
External Size(W*D*H)	715*355*280mm	
Package Size(W*D*H)	820*475*465mm	
Net Weight	21.4kg	
Gross Weight	30kg	