

## Automatic 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:

- \* It can determine optical rotation, specific rotation, concentration, sugar degree.
- \* LED cold light source instead of traditional sodium lamp and halogen tungsten lamp.
- \* The measuring range is upgraded to  $\pm 89^\circ$  (Optical rotation), which improves the limitation of measuring samples.
- \* Fully automated systematic control, easy to operate.
- \* Wide color touch screen and innovative WINDOWS software interface make control and data reading more convenient, to meet the use of high-end users.

### Technical Parameters:

Model	BK-P210	
Light Source	LED cold light source + high precision interference filter	
Wavelength	589.3nm	
Measurement Method	Single, multiple, continuous measurement methods	
Measurement Range	Optical Rotation $\pm 89.99^\circ$ , sugar degree $\pm 257^\circ$	
Optical Rotation	Least Count	0.001°
	Accuracy	$\pm 0.004^\circ$
	Repeatability	0.002°
Temperature	Temp. Range	0-100°C
	Temp. Resolution	0.1°C
	Temp. Accuracy	$\pm 0.1^\circ\text{C}$
Display	7 inch TFT touch color screen	
Standard Test Tube	200mm, 100mm (Regular)	
Optional	Test tube, printer	
Transmittance	0.01%	
Data Storage	1000 groups	
File Export	PDF and Excel	
Interface	USB, RS232	
Power Supply	220V $\pm$ 22V, 50Hz $\pm$ 1Hz	
Power	250W	
Net Weight	21.4kg	
Gross Weight	30kg	
Package Size(L*W*H)	820*475*465mm	

## 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 $\pm 90^\circ$ , sugar degree $\pm 259^\circ$	
Optical Rotation	Least Count	0.001°
	Accuracy	$\pm 0.004^\circ$
	Repeatability	0.002°
Temperature	Temp. Range	10°C-55°C (Peltier)
	Temp. Resolution	0.1°C
	Temp. Accuracy	$\pm 0.1^\circ\text{C}$
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	
Power Supply	220V $\pm$ 22V, 50Hz $\pm$ 1Hz	
Power	250W	
Net Weight	21.4kg	
Gross Weight	30kg	
Package Size(L*W*H)	820*475*465mm	