

# SGW-568/SGW-537/SGW-533/ High-Speed Automatic Polarimeter

Automatic Polarimeter



## Characteristic

The instrument applies the unique and state-of-art control technology, equipped with high quality prisms. It not only greatly enhances the response speed, measurement time, and minimum transmittance when the polarimeter is testing samples, but also fully embodies the high speed, efficiency and accuracy features, which completely transformed the slow response speed and long measuring time of the traditional polarimeter. It's a landmark's breakthrough of polarimeter development in China. In terms of function, the user can customize up to 300 commonly used measurement methods which are pre-stored in the system. With applying the latest IT technology, the instrument can access the Internet.

## Specifications

Parameters/Model	SGW®-568	SGW®-537	SGW®-533
Measurement mode	Optical rotation, specific rotation, sugar degree and concentration(Custom)		
Frequently used	300	300	300

methods			
Light source	Light-emitting diode(LED) (up to 100000 hours) + precision interference filters	20W Tungsten halogen lamp	Light-emitting diode(LED)(up to 100000 hours) + precision interference filters
Working wavelength	589.44nm (Sodium D Spectrum)	Standard:546,589nm Optional:365,405,436,578,633nm	589.44nm (Sodium D Spectrum)
Measurement range	$\pm 90^{\circ}$ (Rotation) $\pm 259^{\circ}$ Z (Sugar)		
Minimum reading	0.0001°	0.001°	0.001°
Accuracy	$\pm 0.003^{\circ}$	$\pm 0.004^{\circ}$	$\pm 0.004^{\circ}$
Repeatability	$\leq 0.002^{\circ}$	$\leq 0.002^{\circ}$	$\leq 0.002^{\circ}$
Min. transmission of samples able to be measured	0.01%	0.1%	0.05%
Response speed	8°/S		
Measurement time	6 times/26s		
Sample temperature control	Yes		
Temperature Control mode	Peltier(Built-in)		
Temperature Control range	10-50°C		
Temperature Control accuracy	$\pm 0.2^{\circ}\text{C}$		
Operation system	WINDOWS		
Display	8-inch color dot matrix touch LCD		
Calibration method	Multi-point automatic calibration		
Data storage	16G Database		

GMP Regulations	Qualified
Output communication interface	USB/Keyboard/Mouse/Universal Printer/VGA/Ethernet/Optical wireless card for wireless internet access
Test tubes	200mm 100mm(regular) 100mm(temp control)
Optional tubes	50mm(regular) 200mm(temp control)
Weight(Gross)	36kg
Dimensions	860mm 510mm 470mm