# Precision Automatic Polarimeter IAP-380



Precision Automatic Polarimeter IAP-380 is designed for use in many applications that require measurement of optical rotation and best suited for custom optical rotation, specific rotation, sugar degree and concentration. Designed with 589.44 nm, 8-inch color dot matrix touch LCD and includes polarimeters tubes of 100 mm and 200 mm, and a spare sodium lamp, with sample transmittance up to 0.10% and 0.01% range. Better-quality usability with the use of touch screen display. Achieve a high measurement accuracy of up to ± 0.004. Automatically prints out Optical rotation, specific rotation, sugar degree, concentration.

Precision Automatic Polarimeter IAP-380 is ideal for measurement of rotation of polarization plane and best suited for optical rotation, specific rotation, sugar degree, concentration with accuracy up to ±0.004°C, and ≤0.002°C total repeatability and glass tubes: 100 and 200 mm, 15mm diameter.

## Technical Specification:

| | |
|---|---|
| Model | IAP-380 |
| Measuring range | ±90°(Rotation) ±259°Z(Sugar) |
| Wavelengths | 589.44 nm (Sodium D Spectrum) |
| Temperature Accuracy | ±0.1℃ |
| Temperature control range | 10-50℃ |
| Dimensions (L x W x H) | 860×510×470 mm |
| Weight | 36 kg |
| Interfaces | USB/Keyboard/Mouse/Universal Printer/VGA/Ethernet/Optical wireless card for wireless internet |
| Light Source | LED |
| Certification | CE |
| Display | 8-inch colour dot matrix touch LCD |
| Measurement Modes | Optical rotation, specific rotation, sugar degree and concentration (Custom) |
| Catalogue No. | 4601515-04 |

## Technical Data:

| Model | IAP-360 | IAP-370 | IAP-380 | IAP-390 |
|---|---|---|---|---|
| Wavelength | 589.44 nm (Sodium D Spectrum) | | | |
| Accuracy | ±0.006°C | ±0.004°C | | ±0.003°C |
| Repeatability | ?0.002°C | | | |
| Calibration | Multi-point automatic calibration | | | |
| Frequently Used Methods | 30 | | 300 | |
| Minimum Transmission of Samples | 0.10% | | | 0.01% |
| Response Speed | 8°C/S | | | |
| Temperature Accuracy | - | ±0.1? | | |
| Temperature Range | - | 10-50? | | |
| Measurement Range | ±90°(Rotation) ±259°Z(Sugar) | | | |
| Measurement Modes | Optical rotation, specific rotation, sugar degree and concentration (Custom) | | | |
| Source | LED | | | |
| Display | 8-inch colour dot matrix touch LCD | | | |
| Test Tube | 200/100 mm | 200/100 mm(regular) 100 mm(temp control) | | |
| Certifications | CE | | | |
| Storage | | | | |
| Interface | USB/Printer/Ethernet | USB/Keyboard/Mouse/Universal Printer/VGA/Ethernet/Optical wireless card for wireless internet | | |
| Power Consumption | | | | |
| Dimension | 860×510×470 mm | | | |
| Weight | 36 kg | | | |
| Electrical Requirement | - | | | |
| Catalogue No. | 4601505-04 | 4601510-04 | 4601515-04 | 4601520-04 |




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