

## Automatic Colorimeter Model: ADL-PBT01

automatic colorimeter is the first new instrument in the industry developed by the company to automatically measure all color and whiteness parameters. It is widely used in paper making, printing, textile printing and dyeing, ceramics, building materials, chemicals, food, salt production and other industries and other production and commodity inspection departments that need to determine the color and whiteness of objects.

### Application Range

- Paper, cardboard, plastic, pulp
- Powder for salt, industrial salt, starch, calcium carbonate, talcum powder, etc.
- Chemical pulp, cotton, chemical fiber, textiles
- Food, ceramics, enamel, building materials

### Application Function

- Measure the color of the object
- Measuring CIE whiteness (Gantz visual whiteness) W10 and color cast value Tw10
- Measure ISO whiteness (R457 blue lightness) and Z whiteness (Rz)
- Measure the fluorescence whitening produced by the emission of fluorescent substances (the sample contains fluorescent whitening)
- Measure the whiteness of building materials and non-metallic mineral products WJ
- Measure Hunter Whiteness WH
- Measure the whiteness and color of the fiber (supporting fiber sampler)
- Measure the whiteness of the powder, Lab and color difference
- Measure yellowness YI, opacity OP, light scattering coefficient S, light absorption coefficient A, transparency, ink absorption value

### Product Features

- The advanced electromechanical integration design eliminates the original manual turning handwheel, which solves the tedious test (it must be rotated 4 times to test the whiteness and chromaticity), and solved the positioning error of the hand wheel rotation, realize one-click test whiteness and chromaticity
- The motherboard adopts the latest technology and new design. The CPU adopts 32-bit ARM processor, which improves the processing speed of the instrument and makes the calculation data more accurate and fast.



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- Using 5-inch TFT true color color LCD touch screen display, the operation is more user-friendly, new users can also master the use method within 1 minute.
- Increase data cache for users to back up, view, and compare historical data
- The reference can be either physical or data. The instrument can store up to ten reference information
- The instrument has a memory function, even if the power is turned off for a long time, the useful information such as zero adjustment of the memory, calibration, standard sample and reference sample will not be lost.

### Key Technical Parameters

- Power Supply : AC (100~240) V (50/60) Hz 50W
- Working Environment : (10~35)°C, Humidity ≤ 85%
- Sample Size : Test plate diameter should not be less than 30mm while sample thickness should not exceed 40mm
- Indication Accuracy : Chromaticity coordinate ≤ 0.0001  
others are 0.01
- Data's Stability : 30 minutes after preheating, within ±5°C temperature range, ≤ 0.1
- Repeatability Accuracy : Rx, Ry, Rz ≤ 0.03, chromaticity coordinate ≤ 0.003, R457 ≤ 0.03
- Specular Reflectance Accuracy : ≤ 0.1
- Print : Built-in thermal printer
- Communication Interface : RS232
- Dimension : 380(L)×260(W)×410(H) mm
- Net Weight : 12.5kg

### Optional Accessories (Purchase Separately)

RS232 interface and computer software - 1set

### Standards

GB/T 7973	GB/T 7974	GB/T 7975	GB/T 2679.1
GB/T 1543	GB/T 10339	GB/T 12911	GB/T 22880
GB/T 24288	GB/T 3979	GB/T 2913	GB/T 13025.2
GB/T 5950	GB/T 8424.1	GB/T 8424.2	GB/T 8424.3
GB/T 9338	GB/T 9984	GB/T 13173	GB/T 13835.7
GB/T 4739	GB/T 6688	GB/T 11186	GB/T 11942
GB/T 22427.6	QB/T 1503	QB/T 2789	
ISO 2469	ISO 2470	ISO 2471	ISO 9416
			ISO 11475

*\*Technical Data Subject to change without notice.*

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At AdLab, we combine expertise in precision engineering with advanced laboratory technology to create innovative and reliable testing instruments. Our team of skilled professionals continuously works on improving product designs, integrating the latest advancements in technology, and ensuring compliance with international quality standards. With a strong focus on research and development, we provide customized solutions that cater to the unique needs of our customers worldwide.

## Our Products

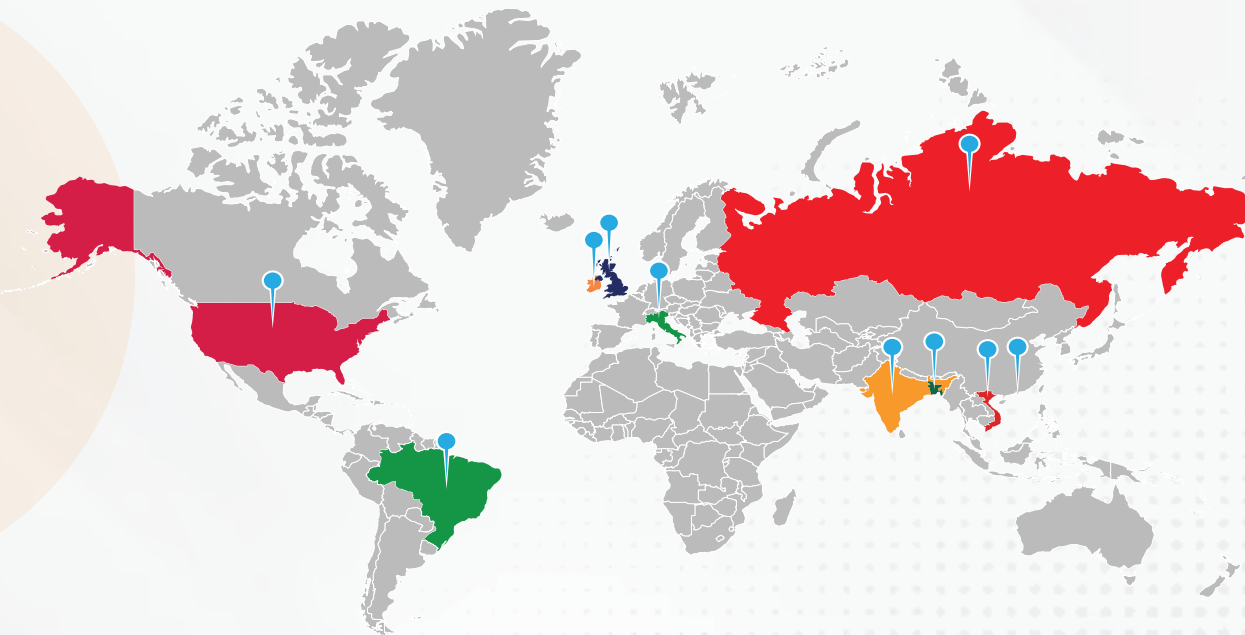
AdLab offers a wide range of high-quality laboratory and textile testing instruments, including Yarn & Fiber Testing Instruments, Laboratory Fume Hood Chambers, Ovens & Incubators, Water Baths, Textile Testing Instruments, Dyeing & Finishing Machines, Ceramic Testing, Tensile Testing, Washers & Dryers, Needle Detectors, and In-House Testing Equipment. Designed for precision and efficiency, our products ensure accurate testing and reliable performance across various industries.

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- ✓ Installation & Training – We offer professional installation services and hands-on training to help users operate our equipment efficiently.
- ✓ Calibration & Maintenance – Regular calibration and maintenance services ensure that your laboratory instruments remain accurate and in optimal working condition.
- ✓ Customized Solutions – We provide tailored solutions to meet specific industry requirements, helping our clients achieve maximum efficiency in their operations.

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