



POLARIMETER - TORONAP10™ AUTOPLUS

Polarimeter - ToronAP10™ AutoPlus integrates advanced automatic photoelectric inspection technology for highly accurate and reliable measurements. It provides seamless operation for determining the optical rotation, density, content, and purity of various substances. Its versatility makes it an indispensable tool across industries such as pharmaceuticals, petroleum, food, chemicals, flavors, spices, sugar production, and academic research.

APPLICATIONS

The ToronAP10 AutoPlus and its advanced counterparts are ideal for quality control and research applications in:

1. Pharmaceuticals
2. Food and beverage industries
3. Chemical analysis
4. Flavor and fragrance formulation
5. Sugar production
6. Academic and industrial research institutes

This robust and versatile instrument offers unparalleled performance for diverse analytical needs.

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FEATURES

- **Peltier Temperature Control**

The built-in Peltier system automatically maintains sample temperature within a range of 10 °C to 50 °C, ensuring precise and consistent results.

- **User Calibration System**

Equipped with standard polarization tubes and calibration software, enabling users to easily perform calibration for enhanced accuracy.

- **Large Color Touch Screen**

The device features an intuitive software interface and a high-resolution touch screen for easy operation and data visualization:

- ToronAP10 Auto: 5.6-inch TFT display.
- ToronAP10 AutoPlus, ToronAP50 Auto, and ToronAP50 AutoPlus: 8-inch TFT display.

- **Long-Lasting LED Light Source**

High-brightness LED lights with a service life of over 100,000 hours eliminate the need for frequent light source replacements.

Enhanced Features of ToronAP10™ AutoPlus and ToronAP50 AutoPlus

- **Advanced Android System with 8-inch Touch Screen**

The upgraded system simplifies operation and offers a modern user experience.

- **FDA 21 CFR Part 11 Compliance**

Designed to meet strict regulatory requirements, ensuring data integrity and security for pharmaceutical applications.

- **User ID Management**

Allows for user ID creation, deletion, and permission settings to maintain operational control and security.

- **Dynamic Display Functionality**

The timing measurement and atlas display features track and visualize optical rotation changes in real time.

- **Expanded Storage Capacity**

8GB of internal memory for extensive data storage, making it easier to manage and retrieve test results.

- **Enhanced Connectivity Options**

Includes three USB ports for connecting peripherals like U-disks, keyboards, and mice, alongside Wi-Fi capability for printer connections.

TECHNICAL SPECIFICATIONS

ToronAP10 Auto	ToronAP50™ Auto	ToronAP10™ AutoPlus	ToronAP50™ AutoPlus	
Measuring range	±89.99°Arc; ±259°Z			
Measuring Model	Optical Rotation; Specific Rotation; Concentration; Sugar Degree			
Min.reading	0.001°(optical rotation)			
Accuracy	±0.01º(-45º. optical rotation ≤+45º; ±0.02º (optical rotation□ 45º or optical rotation□ 45º)			
Repeatability (standard deviation)	0.002°(optical rotation)			
Min. Transmittance	1%			
Light Source	LED			
Wavelength	589.3nm LED			
Temperature Control	No	Peltier	No	Peltier
Temperature Control Range		10°C□ 50°C		10°C□ 50°C

Temperature Control Accuracy		0.2°C		0.2°C
Communication Port	USB; RS232	USB×3,RS232□ Wi-Fi	USB×3,RS232□ Wi-Fi	USB×3,RS232□ Wi-Fi
Data Storable	1000	8GB	8GB	8GB
21CFR Part 11	No	No	Yes	Yes
Display	5.6 inch	8 inch	8 inch	8 inch
Sample Cell	Up to 200mm	Up to 200mm	Up to 200mm	Up to 200mm
Graphic	No	No	4hours	4hours
Power	220V AC (±10%) 50Hz (110V is also available)	220V AC (±10%) 50Hz (110V is also available)	220V AC (±10%) 50Hz (110V is also available)	220V AC (±10%) 50Hz (110V is also available)
Calibration System	Option	Option	Option	Option



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