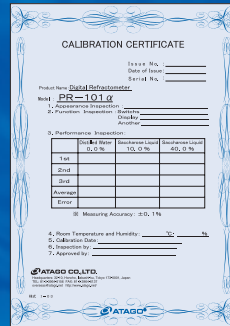


	PR-32 α	PR-101 α	PR-201 α	PR-301 α
Cat.No.	3405	3442	3452	3462
Measurement Range	Brix0.0~32.0%	Brix0.0~45.0%	Brix0.0~60.0%	Brix45.0~90.0%
Minimum Indication	Brix 0.1%			
Measurement Accuracy	Brix $\pm 0.1\%$ (5~40°C)		Brix $\pm 0.1\%$ (10~40°C)	Brix $\pm 0.1\%$ (10~30°C)
Measurement Temperature	5~40°C Automatic Temperature Compensation		10~40°C Automatic Temperature Compensation	
Ambient Temperature	5~40°C		10~40°C	
Sample Volume	0.1ml or more			
Measurement Time	3 seconds (approximately)			
Power Supply	006P dry battery (9V)			
International Protection Class	IP64 Water Resistant			
Dimensions and Weight	17 (W) \times 9 (D) \times 4 (H) cm, 300g			

Certification

In accordance with ISO Quality Management Systems, ATAGO can provide calibration and certification for any ATAGO refractometer. The following documents will be issued (for a service fee):

1. Calibration Certificate
2. Traceability System Diagram
3. Traceability Certificate



Digital Refractometer (Optical Refraction Method) Palette Series

Palette



The Palette α - high functionality in a compact size body

- $\pm 0.1\%$ (Brix) accuracy.
- Programmable user scales enable control of various liquid concentrations.



PR-32 α Cat.No.3405

PR-101 α Cat.No.3442

PR-201 α Cat.No.3452

PR-301 α Cat.No.3462

NEW!

Digital Refractometer PR-RI

Measurement Range: Refractive index 1.3306~1.4436
Temperature 5~45°C

Minimum Indication: Refractive index 0.0001
Temperature 1°C

Measurement Accuracy: Refractive index ± 0.0002 (water at 20°C)
Temperature $\pm 1^\circ\text{C}$

Measurement Temperature: 5~45°C

Power Supply: 006P dry battery (9V)

Dimensions and Weight: 17(W) \times 9(D) \times 4(H) cm
300g (main unit only)



PR-RI

For measuring refractive index!

Digital Salt Meter ES-421

Measurement Range: 0.00 to 10.0% (100g) of salt concentration

Minimum Indication: 0.01% for salt concentration of 0.00 to 2.99%
0.1% for salt concentration of 3.0 to 10.0%

Measurement Accuracy: Displayed value $\pm 0.05\%$ (for salt concentration of 0.00 to 1.00%)
Relative precision \pm less than 5% (for salt concentration of 1.00 to 10.0%)

Power Supply: 006P dry battery (9V)

Dimensions and Weight: 17(W) \times 9(D) \times 4(H) cm
300g (main unit only)



ES-421

For measuring Salt %!

EXPLANATION OF ICONS

Icons for functions, specifications and scales have been added to this catalog.

- * Compact and easy to carry
- * Portable
- * Leicht und einfach zu tragen
- * Calibración con líquidos standard exclusivos
- * Compacto y fácil de llevar
- * 輕巧易於攜帶

- * Calibration with water
- * Calibration 1 point* sur eau distillée
- * Kalibrierung mit Wasser
- * Calibración con agua
- * 用水歸零

- * Calibration with exclusive standard liquid
- * Calibration 1 point sur solution standard
- * Kalibrierung mit speziellen Standard
- * Calibración con patrones líquidos especiales
- * 使用專屬標準液歸零

- * Battery operated
- * Alimentation par pile
- * Batteriebetrieben
- * Alimentazione a batteria
- * Funcionamiento con batería
- * 使用電池操作

- * Digital display
- * Affichage numérique
- * Digital Anzeige
- * Display digitale
- * Pantalla digital
- * 數字顯示

- * Automatic Temperature Compensation
- * Compensation automatique de température
- * Automatische Temperaturkompensation
- * Compensazione automatica della temperatura
- * Compensación de automática de temperatura
- * 自動溫度補償

- * External Light Interference
- * Interférence de la lumière externe
- * Äußere Lichteinflüsse
- * Interferenza della luce esterna
- * Luz de Interferencia Externa
- * 外部光線干涉

All ATAGO refractometers are designed and manufactured in Japan.

CE HACCP G.M.P. G.L.P. ATAGO products are acknowledged by HACCP, G.M.P. and G.L.P. systems.

* Specifications and appearance are subject to change without notice.

ATAGO CO., LTD.

Headquarters: 32-10, Honcho, Itabashi-ku, Tokyo 173-0001 Japan
TEL: 81-3-3964-6156 FAX: 81-3-3964-6137
overseas@atago.net http://www.atago.net/

ATAGO U.S.A., Inc.

12011 Bel-Red Road, Suite 101 Bellevue, WA 98005 U.S.A.
TEL: 1-425-637-2107 FAX: 1-425-637-2110
customerservice@atago-usa.com http://www.atago.net/

ATAGO INDIA Instruments Pvt. Ltd. (Sales Office)

A-501, Mangal Aarambh Business Centre, Near Kora Kendra, Off. S.V. Road, Borivali (West), Mumbai-400 092 India
TEL: 91-22-2833-8038 / 8076 FAX: 91-22-2899-8164 customerservice@atago-india.com



Palette

The continuing evolution of the Palette — The Debut of the Palette α

The Palette α series is the ultimate compact instrument which is the result of years of proven reliable performance, ease of operation and the functionality of design.

Sample size is Just
1 Drop!

Measurement time is Just
3 seconds!

Measures concentration of solutions with a light beam



- 1 Apply 1 drop of sample solution onto the prism surface.
- 2 Press the START/OFF Switch.
- 3 Brix (%) value displayed in 3 seconds!

Names of Components



Main Features

- Accuracy improved to $\pm 0.1\%$** **NEW!**
The conventional measurement accuracy, $\pm 0.2\%$, is increased to $\pm 0.1\%$. The highest accuracy available in a compact model.
- External-light-Interference (ELI)*** **NEW!**
Conventionally, digital optical instruments have the potential to display incorrect measurement values if sampling is performed near a window or outdoors where lighting may be too intense. The new ELI technology provides security under these conditions to ensure accurate measurements.
- Convenient temperature display** **NEW!**
A temperature display function has been added. The temperature is displayed by simply pressing a switch.
- User scale feature** **NEW!**
The user scale function has been added. Concentrations of various samples can be displayed by setting up a coefficient. Three separate user scales can be entered.
- Two-year warranty** **NEW!**
ATAGO has extended the warranty term for the Palette α series to 2 years. For the terms and conditions, contact ATAGO.
- Automatic Temperature Compensation (ATC) function**
With ATC, there is no need to worry about the measurement temperature.
- Large, easy to read display**
The large-sized liquid crystal panel makes it easy to read the measured result.

Optional

Sucrose Solutions (for Brix confirmation)

Part No.	Part Name
RE-110010	10% Sucrose ($\pm 0.03\%$)
RE-110030	30% Sucrose ($\pm 0.03\%$)
RE-110050	50% Sucrose ($\pm 0.05\%$)

*** External Light Interference (ELI) - Patent Pending**
When intense light penetrates the prism of a digital refractometer, the light waves may interfere with the sensor resulting in inaccurate readings. To ensure accurate measurement results each time, the Palette α is programmed with the ELI function to display the warning message "nnn" when intense direct light is detected. Forming a habit of shading the sample stage with your hand and re-pressing the START/OFF Switch (when the warning message from the ELI function is displayed) will ensure accurate measurement results each time.

Main Applications

	PR-32 α	PR-101 α	PR-201 α	PR-301 α
At fruit and vegetable farming orchards	○	○		
At beverage factories...fruit juices, coffee, soft drinks, etc. juice concentrates, etc	○	○	○	○
At food factories... soy sauce, various sauces, etc. syrops, jellies, etc. seasoning, soups jams, marmalade, honey, etc. condensed milk, etc		○	○	○
At fruit and vegetable markets or supermarkets	○	○	○	○
At restaurants or food shops	○	○	○	○
In Junior High, High Schools, or Universities as a course material	○	○	○	○



Four models of the Palette α are available for your different measurement samples.

*Calibration with the Standard Liquid LG.