

	PR-32α	PR-101α	PR-201α	PR-301α
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 ±0.1% (5~40°C)	Brix ±0.1% (10~40°C)		Brix ±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) × 9 (D) × 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



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 ± 1°C

Measurement Temperature: 5~45°C

Power Supply: 006P dry battery (9V)

Dimensions and Weight: 17(W) × 9(D) × 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 ± 0.05% (for salt concentration of 0.00 to 1.00%)
Relative precision ± less than 5% (for salt concentration of 1.00 to 10.0%)

Power Supply: 006P dry battery (9V)

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



ES-421

For measuring Salt %!

The Palette α - high functionality in a compact size body

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



PR-32α Cat.No.3405

PR-101α Cat.No.3442

PR-201α Cat.No.3452

PR-301α Cat.No.3462



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 esclusivi
- 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
- Calibración con agua
- 用水調零

- Calibration with exclusive standard liquid
- Calibration 1 point sur solution standard
- Kalibrierung mit speziellem Standard
- Calibración con patrones líquidos especiales
- Calibración con patrones líquidos especiales
- 使用專屬標準液調零

- 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.

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HACCP | GMP | GLP

ATAGO products comply with HACCP, GMP, and GLP system standards.

* Specifications and appearance are subject to change without notice.



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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



Names of Components



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

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.



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

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	○	○	○	○

*Calibration with the Standard Liquid LG.