

	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



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 estándar 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
- 用水調零

- Calibration with exclusive standard liquid
- Calibration 1 point sur solution standard
- Kalibrierung mit speziellem Standard
- Calibration 1 point sur solution standard
- 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

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

ATAGO

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.

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

Liquid Crystal Display (LCD)

Prism

START/OFF Switch

SCALE Switch

ZERO Setting Switch



PR-32α Cat.No.3405



PR-101α Cat.No.3442



PR-201α Cat.No.3452



PR-301α Cat.No.3462



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

*Calibration with the Standard Liquid LG.

Measurement Method



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 ±0.1%

NEW!

The conventional measurement accuracy, ±0.2%, is increased to ±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 (±0.03%)
RE-110030	30% Sucrose (±0.03%)
RE-110050	50% Sucrose (±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-32α	PR-101α	PR-201α	PR-301α
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.			○	○
syrups, 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	○	○	○	○