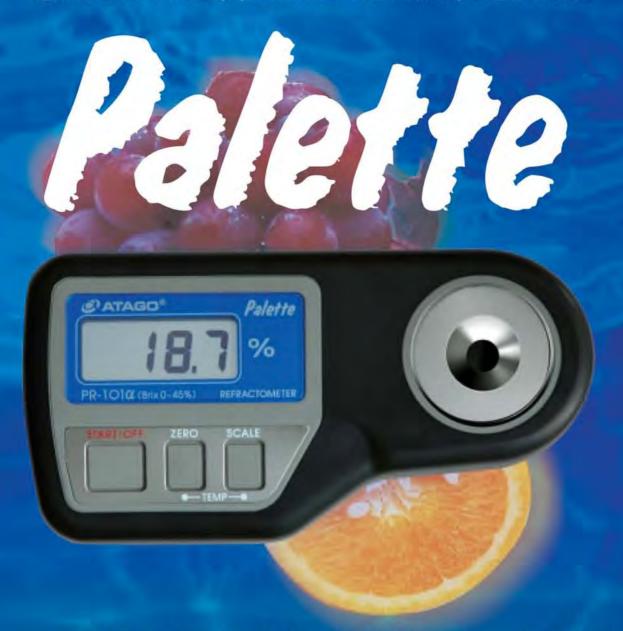
Digital Refractometer (Optical Refraction Method) Palette Series



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 Gat.No.3462



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

Sample size is Just

1 Drop!

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.

Measurement time is Just 3 seconds!



Measurement Method







Apply 1 drop of sample solution onto the prism surface.

Press the START/OFF Switch.

Brix (%) value displayed in 3 seconds!

Main Features

Accuracy improved to ±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)*



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



A temperature display function has been added.

The temperature is displayed by simply pressing a switch.

User scale feature



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



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-32 α	PR-101α	PR-201α	PR-301α
At fruit and vegetable farming orchards	0	0		
At beverage factoriesfruit juices, coffee, soft drinks, etc.	0	0	0	
juice concentrates, etc			0	0
At food factories soy sauce, various sauces, etc.		0	0	
syrups, jellies, etc.			0	0
seasoning, soups		0	0	
jams, marmalade, honey, etc.			0	0
condensed milk, etc			0	0
At fruit and vegetable markets or supermarkets	0	0		
At restaurants or food shops	0	0	0	0
In Junior High, High Schools, or Universities as a course material	0	0	0	0

	PR-32a	PR-101α	PR-201α	PR-301n	
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			
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 Compensati		
Ambient Temperature	5~40°C		10~40°C		
Sample Volume		0.1ml	0.1ml or more		
Measurement Time		3 seconds (approximately)			
Power Supply		006P dry l			
International Protection Class		IP64 Wate			
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



NEW!

Digital Refractometer PR-RI

Measurement Range: Refractive index

1.3306~1.4436

Temperature 5~45°C 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

Minimum Indication:

Power Supply: 006P dry battery (9V) Dimensions and Weight: $17(W) \times 9(D) \times 4(H)$ cm

300g (main unit only)



Digital Salt Meter ES-421

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

concentration

0.01% for salt concentration Minimum Indication:

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 to10.0%)

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

 * Calibrazione con liquidi standard e Compacto y fácil de llevar 輕巧易於攜帶

- *Calibration with water
 Calibration 1 point sur eau distillée
 *Kalibrierung mit Wasser
 *Calibrazione con acqua

 - *Calibración con agua *用水解零

 - - 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
 - Canoración con patro
 使用專屬標準液隔零
- * Battery operated
- * Alimentation par pile

 * Batteriebetrieben

 * Alimentazione a batteria

 - *使用電池操作
- *Digital display
 - *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
 Außere 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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ATAGO products are acknowled HACCP, G.M.P. and G.L.P. sys



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