	PR-32α	PR-101α	PR-201α	PR-301α	
Cat.No.	3405	3405 3442		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 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 Wate	er 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
- 2.Traceability System Diagram
- 3.Traceability Certificate



Digital Refractometer PR-RI

Measurement Range: Refractive index

1.3306~1.4436 Temperature 5~45°C

Refractive index 0.0001 Minimum Indication:

Temperature 1°C

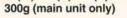
Measurement Accuracy: Refractive index ± 0.0002

(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





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%)

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

300g (main unit only)



EXPLANATION OF ICONS

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

- - eicht und einfach zu trager
- ition 1 point sur solution standard erung mit speziellem Standard stion 1 point sur solution standard ción con patrones líquidos especiales • 使用專屬標準液验等

*Calibration with water

- Calibration 1 point* sur eau distillée Kalibrierung mit Wasser Calibración con acqua Calibración con agua
 - Alimentation par pile Batteriebetrieben tazione a batteria
- *Compensation automatique de température
 *Automatische Temperaturkompensation
 *Compensazione automatica della temperatura
 *Compensación de automática de temperatura
 *(自動選定補償
- · External Light Interference
- Interférence de la lumière externe Außere Lichteinflüsse Interferenza della luce esterna Luz de Interferencia Externa
 - * 外部光線干渉

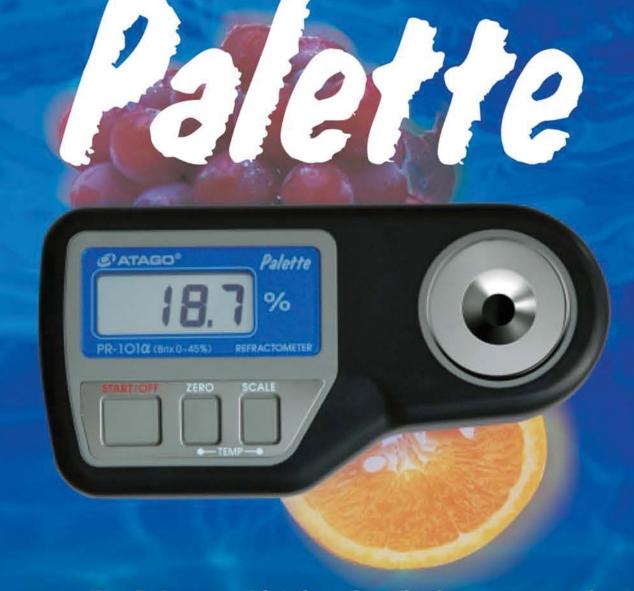
All ATAGO refractometers are designed and manufactured in Japan.



* Specifications and appearance are subject to change without notice.

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

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 Gat.No.3405

PR-101α Cat.No.3442

PR-201 α Cat.No.3452

PR-301 α Gat.No.3462





Names of

Components

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

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.

Liquid Crystal Display (LCD)

ZERO Setting Switch

3 seconds





Brix (%) value displayed in 3 seconds!

Apply 1 drop of sample solution onto the prism surface.

Press the START/OFF Switch.

Main Features

Accuracy improved to ±0.1%

The conventional measurement accuracy, ±0.2%, is increased to ±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

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	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

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

PR-101α Gat.No.3442

START/OFF Switch

PR-32α Gat.No.3405 ♀ ♥ 自 ‱ € *

PR-301α cat.No.3462

www.calcert.com

PR-201α Gat.No.3452