

| | 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% (10~40°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 %!

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 líquido standard esclusivo
- 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 líquido standard esclusivo
- 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

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



All ATAGO refractometers are designed and manufactured in Japan.

HACCP | GMP | GLP

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

* Specifications and appearance are subject to change without notice.

ATAGO CO., LTD.

Headquarters: The Front Tower Shiba Koen, 23rd Floor
2-6-3 Shiba-koen, Minato-ku, Tokyo 105-0011, Japan
TEL : 81-3-3431-1943 FAX : 81-3-3431-1945
overseas@atago.net http://www.atago.net/

ATAGO U.S.A., Inc.

TEL : 1-425-637-2107 customerservice@atago-usa.com

ATAGO INDIA Instruments Pvt. Ltd.

TEL : 91-22-2833-8038 / 8076 customerservice@atago-india.com

ATAGO (THAILAND) Co., Ltd.

TEL : 662-982-8718-9 customerservice@atago-thailand.com

ATAGO BRASIL Ltda.

TEL : 55 16 3916-6000 customerservice@atago-brasil.com

ATAGO ITALIA s.r.l.

TEL : 39 2 36557267 customerservice@atago-italia.com

ATAGO CHINA Guangzhou Co., Ltd.

TEL : 86 20-38106065 info@atago-china.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



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.