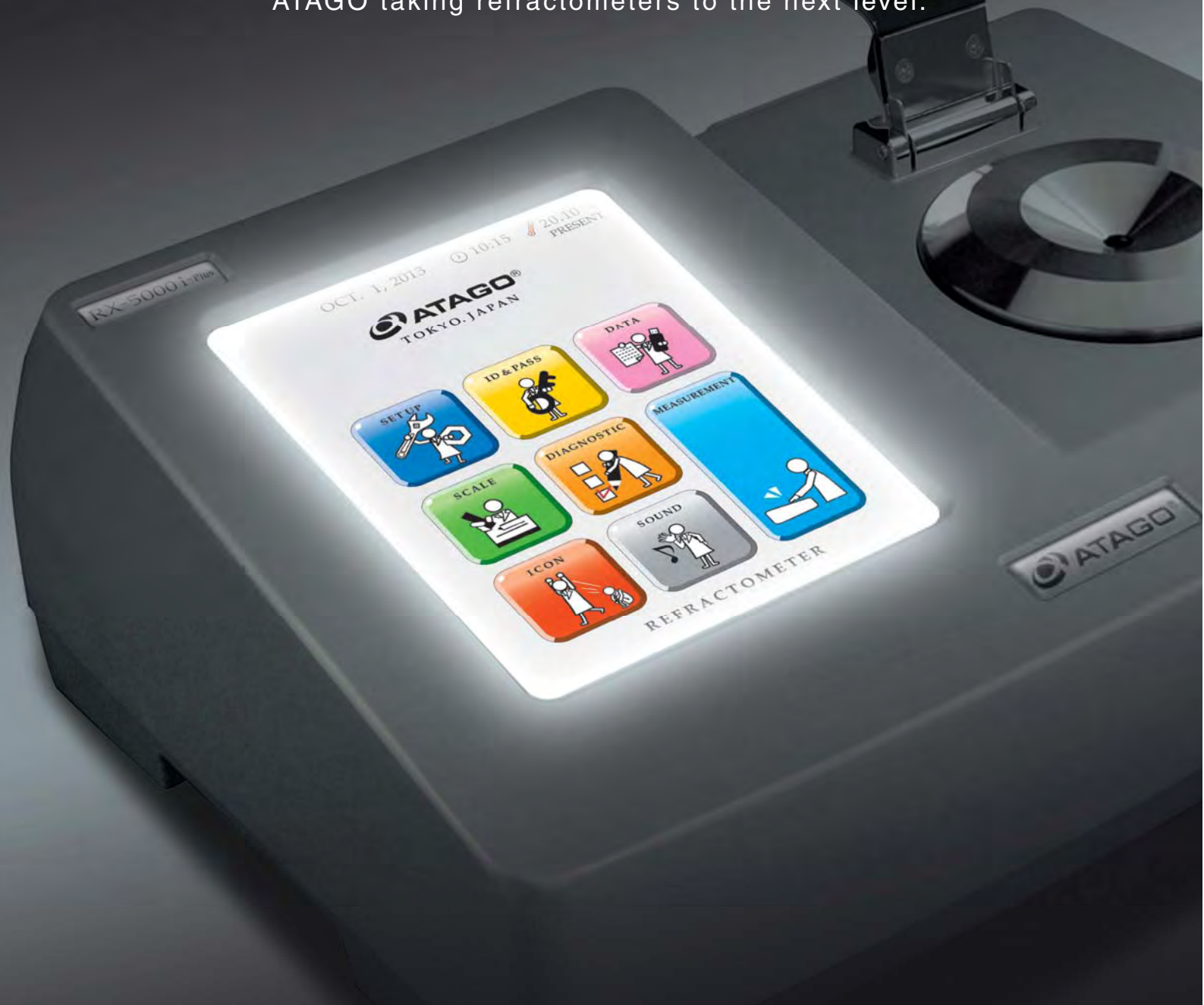


Digital Refractometers

RX-i series

The world's highest standard of technology
now available with touch screen.
ATAGO taking refractometers to the next level.



RX-5000 i RX-5000 i-Plus
RX-7000 i RX-9000 i



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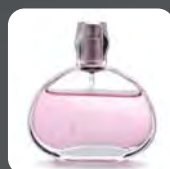
 www.calcert.com

sales@calcert.com

Application examples

Refractive Index

Refractive Index is a common quality standard measure for pharmaceutical or chemical products. Measurements need to be taken at a constant temperature, commonly 20°C, 25°C, and 40°C. The RX-i series are equipped with the internal Peltier Thermo-Module, and measurement starts once the target temperature is reached.



Fragrance and Food Additives



Pharmaceutical Products



Cosmetics



Petroleum and Organic Solutions



Oils and Fats



Detergents

Brix

Brix is measured for quality control purposes in the food and beverage industries.



Beverages and Fruit Juice



Jams, Honey, Liquid Sugar, Syrups



Condiments, Sauces, Soups

Concentrations

The concentrations of industrial solutions are often monitored. Examples include water-based cutting oils and cleaning solutions, hydrogen peroxide, coolants, and alcohol solutions. Although the Brix scale is commonly used, user scales can also be programmed to display converted sample values.



Chemical Solutions



Cutting Oil and Quenching Oil



Antifreeze and Coolants

4 measurement mode options

MODE-1 For maximum accuracy

Displays the measurement value once the sample reaches the target temperature.

MODE-S For emulsion samples

Displays the measurement value once a certain level of sample stability is achieved.

MODE-2 For fast results

Measures refractive index and temperature at fixed intervals and displays the estimated measurement value at the target temperature.

MODE-3 For no temperature control

Provides an option to turn the thermo-module off. Without temperature control, the measurement value is displayed in 4 seconds after the START key is pressed.

Compatibility with harsh chemicals

The wetted parts can be customized with materials that are resistant to corrosive chemicals, such as acids, bases, and solvents.



Sample stage

- Special coatings (PEEK, PTFE, etc.)
- Custom materials (Corrosion-resistant metal alloys)



Body case

- Special coatings (PEEK, PTFE, etc.)

Example



PTFE



PEEK



Cover plate

- Custom materials (PVC resin, fluorine resin, etc.)

Touch it.

Experience the ease of touch-screen technology.

Our world-class precision instrument continues to advance.



- FDA 21 CFR Part 11 Software Included in Standard Delivery **NEW**
- Connectivity to Computer, Printer, USB Flash Drive
- Connectivity to SAC-i Automatic Polarimeter/Saccharimeter
- 2 years standard warranty (3 years with product registration)

This product comes standard with a 2 year limited warranty against manufacturer's defects from the date of the original purchase. This warranty does not cover or apply to the touchscreen. The warranty period can be extended to 3 years if the product is registered with ATAGO.

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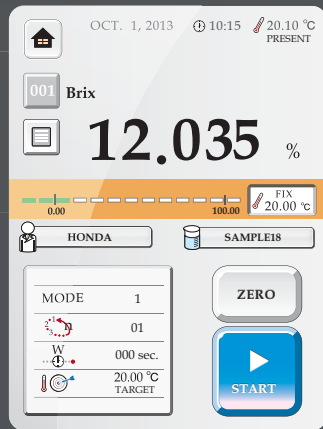
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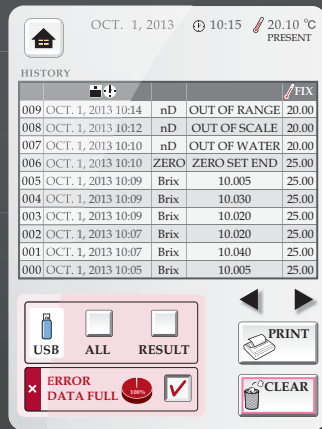
Home Screen

The illustrated home screen makes it easy to identify the operation of your choice.



Measurements

All basic operations - selecting scales and modes, taking and recalling measurements, and zero-setting - are at the tip of your finger.



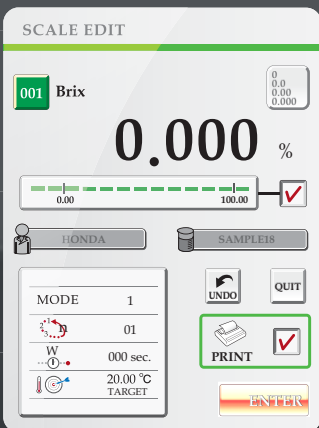
Measurement History

Recall the last 500 measurements. Exporting data to a USB drive or a printer is only one touch away. The RX-i series is also equipped with a RS-232C port for direct computer connection.



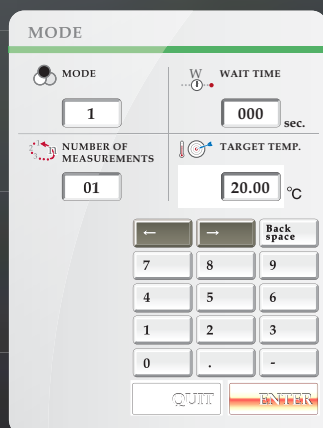
High Security

4 levels of access control and 5 unique user passwords provide data security. The settings are user-configurable.



Editing User Scales

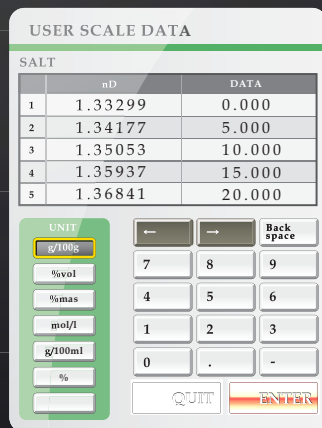
There is no need to re-set the scale, mode, and temperature of programmed user scales each time. With the RX-i series, entering, editing, and copying user scales is a breeze. Up to 100 scales can be programmed.



4 Measurement Modes

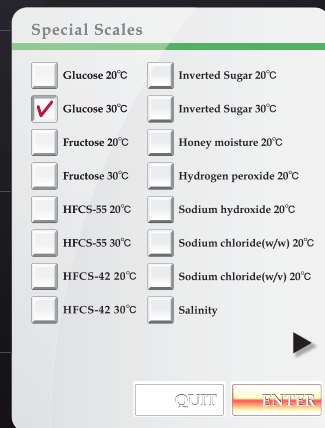
Select the measurement style that is most suited for the sample. Using the ten key pad, choose the measurement mode, enter the wait time, number of continuous measurements, and target temperature.

numerical key pad



User Scales

In addition to the refractive index (nD) and Brix scales, concentration scales for specific samples can be configured easily. Simply program corresponding refractive index values and concentration data points.



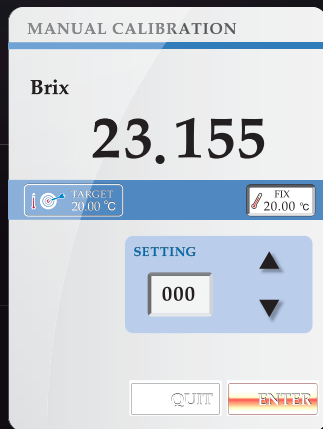
Special Scales

The RX-i series comes pre-programmed with 22 of the most commonly used concentration scales.



Self Assessment

The instrument can detect irregularities with the intensity of light or waveforms. Perform this assessment regularly to ensure accurate measurements.



Manual Calibration

When measurement values differ among multiple units, manual calibration can be performed within the accuracy range to provide consistent readings across all units.



Settings Menu

Navigation through the settings menu requires no effort. The icons provide quick and easy visual identification of operation.



Theme Options

Choose from 6 different theme options for the home screen. Customize it to your taste or change it daily to fit your mood.