



## REFRACTOMETER BREF-102

# REFRACTOMETER BREF-102

## AUTOMATIC REFRACTOMETER

Automatic Refractometer adopts high-performance CCD light-sensitive part, it can automatically measure the refractive index(nD) of transparent, translucent, dark, viscous and other types of liquid sample, also can measure sugar degree(Brix) of sugar solution. It's accurate, reliable, fast, easy operation. Full compliance with FDA 21CFR part.11.



Completely meet the requirements of user ID classification & tracking, E-signature, and Data tamper-proof, which is listed in FDA 21CFR part.11.

A Peltier accurate temperature control system is built-in, accuracy up to 0.02°C. Measuring prism is made of high hardness sapphire glass, of excellent properties against corrosion and scratches, free for clean and durable.

7-inch colour touch screen with Android system and 4GB RAM let methods and Data expanding is excellent.

2 x USB, 1 x RS232, 1 x Ethernet, can be easily connected, printer and network to facilitate users to export data or backup.

## SPECIFICATIONS

|  |   |
|--|---|
| Model  | BREF-102                                  |
| Refractive index measuring range (nD)        | 1.3000-1.7000                             |
| Measured value error (nD)                    | ±0.0002                                   |
| Measurement resolution (nD)                  | 0.0001                                    |
| Scope of sugar solution mass fraction (Brix) | 0-100%                                    |
| Measured value error (Brix)                  | ±0.1%                                     |
| Measurement resolution (Brix)                | 0.1%                                      |
| Temperature control mode                     | Peltier                                   |
| Scope of temperature measuring               | 0-100°C                                   |
| Temperature control range                    | 10-50°C                                   |
| Temperature control accuracy                 | ±0.05°C                                   |
| Interface                                    | RS232 / USB / SD card / U disk / Internet |
| Data storage capacity                        | 4 GB                                      |
| Display modes                                | 7" TFT touch screen                       |
| Power supply (Power adapter)                 | 110-240 V (15 V 7.0 A)                    |
| Power  | 45 W                                      |
| Net weight                                   | 5 kg                                      |
| Dimensions                                   | 365 mm * 300 mm * 150 mm                  |
| Measuring resolution                         | -   |
| Alt Name                                     | Automatic Refractometer                   |

## FEATURES

Completely meet the requirements of user ID classification & tracking, E-signature, and Data tamper-proof, which is listed in FDA 21CFR part.11.

A Peltier accurate temperature control system is built-in, accuracy up to 0.02°C.

Measuring prism is made of high hardness sapphire glass, of excellent properties against corrosion and scratches, free for clean and durable.

7-inch colour touch screen with Android system and 4GB RAM let methods and Data expanding is excellent.

2 x USB, 1 x RS232, 1 x Ethernet, can be easily connected, printer and network to facilitate users to export data or backup.

Multiple Samples Suitability:

Automatic Refractometer is widely used in many kinds of industries, it is one of the most common instruments in the oil industry,

pharmaceutical industry, paint industry, food industry, daily chemical industry, sugar industry, geological exploration or institutions. and scratches, free for clean and durable.

High Performance CCD Sensor:

High-resolution CCD detector offers automatic measurement, avoiding personal errors, having higher accuracy; transparent, translucent liquids or ropiness liquids samples are all available.

Ultra Long Life Light Source:

LED cold light source with the long working life more than 100000 hours

## APPLICATIONS

Automatic refractometer has a wide range of use, within the field of factories, university and related scientific research institutes, petroleum, oil, pharmaceutical, paints, food,daily chemical, sugar and geological prospecting industries.



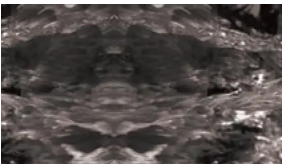
Food



Cosmetics



Pharmaceutical



Oil Chemical



**Biolab Scientific Ltd.**

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)