Benchtop Refractometer

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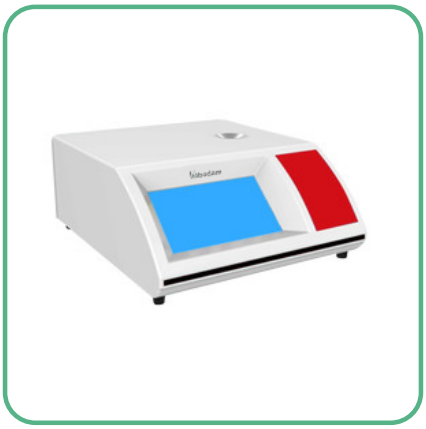

Benchtop Refractometer LBR-A10

Benchtop refractometer LBR-A10 is an automated unit with high performance linear CCD photosensitive components. Adopts high precision signal collection and analysis technology. Equipped with a sapphire prism for precise refraction and TFT colour touch screen. It measures the refractive index and determines the sugar content of various liquids.

Features:

- LED light source
- Stainless steel sample pool
- 7 inch TFT colour touch screen
- High resolution CCD sensor for signal collection

Applications:

Used in measuring sugar content of solutions in laboratories, brewing and food industry, chemical industry, research institutes, pharmaceuticals, cosmetic industry, petroleum industry, etc.

Specifications:

Model no.	LD-LBR-A10
Power	220 V / 50 Hz
Brix range	0.0 ~ 100 %
Wavelength	589 nm
Fine degrees	± 0.0002
Brix accuracy	± 0.1 %
Data interface	USB RS232
Measuring range	1.3000 nD ~ 1.7000 nD
Temperature control	RT
Temperature control stability	RT

Benchtop Refractometer LBR-A11

Benchtop refractometer LBR-A11 is an automated unit with high performance linear CCD photosensitive components. Adopts high precision signal collection and analysis technology. Equipped with a sapphire prism for precise refraction and TFT colour touch screen. It measures the refractive index and determines the sugar content of various liquids.

Features:

- LED light source
- Built in semiconductor for temperature control
- Stainless steel sample pool
- 7 inch TFT colour touch screen
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Fine degrees	± 0.0002
Brix accuracy	± 0.1 %
Data interface	USB RS232
Measuring range	1.3000 nD ~ 1.7000 nD
Temperature control	5 °C ~ 65 °C
Temperature control stability	± 0.03 °C

Benchtop Refractometer LBR-A12

Benchtop refractometer LBR-A12 is an automated unit with high performance linear CCD photosensitive components. Adopts high precision signal collection and analysis technology. Equipped with a sapphire prism for precise refraction and TFT colour touch screen. It measures the refractive index and determines the sugar content of various liquids.

Features:

- LED light source
- Built in semiconductor for temperature control
- Stainless steel sample pool
- 7 inch TFT colour touch screen
- High resolution CCD sensor for signal collection

Applications:

Used in measuring sugar content of solutions in laboratories, brewing and food industry, chemical industry, research institutes, pharmaceuticals, cosmetic industry, petroleum industry, etc.

Specifications:

Model no.	LD-LBR-A12
Power	220 V / 50 Hz
Brix range	0.0 ~ 100 %
Wavelength	589 nm
Fine degrees	± 0.00003
Brix accuracy	± 0.1 %
Data interface	USB RS232
Measuring range	1.30000 nD ~ 1.70000 nD
Temperature control	5 °C ~ 65 °C
Temperature control stability	± 0.02 °C

Benchtop Refractometer LBR-A13

Benchtop refractometer LBR-A13 is an automated unit with high performance linear CCD photosensitive components. Adopts high precision signal collection and analysis technology. Equipped with a sapphire prism for precise refraction and TFT colour touch screen. It measures the refractive index and determines the sugar content of various liquids.

Features:

- LED light source
- Built in semiconductor for temperature control
- Stainless steel sample pool
- 7 inch TFT colour touch screen
- High resolution CCD sensor for signal collection

Applications:

Used in measuring sugar content of solutions in laboratories, brewing and food industry, chemical industry, research institutes, pharmaceuticals, cosmetic industry, petroleum industry, etc.

Specifications:

Model no.	LD-LBR-A13
Power	220 V / 50 Hz
Brix range	0.0 ~ 100 %
Wavelength	589 nm
Fine degrees	± 0.0002
Brix accuracy	± 0.01 %
Data interface	USB RS232
Measuring range	1.3000 nD ~ 1.7000 nD
Temperature control	5 °C ~ 90 °C
Temperature control stability	± 0.01 °C

Benchtop Refractometer LBR-B10

Benchtop refractometer LD-LBR-B10 is an automated unit with high performance linear CCD sensor. Adopts high precision signal collection and analysis technology with semiconductor part temperature control system. Equipped with a sapphire prism for precise refraction and TFT colour touch screen. It measures the refractive index and determines the sugar content of various liquids.

Features:

- Improved accuracy and stability with built in temperature controller
- Equipped with double temperature control, sapphire prism
- 7 inch TFT colour touch screen
- High resolution CCD sensor for signal collection
- LED light source
- Data statistical retrieval and network printing supported
- Management for Multi-level authority

Applications:

Used for determination of refractive index and sugar content in liquid as well as solid samples in laboratories, brewing and food industry, chemical industry, research institutes, pharmaceuticals, cosmetic industry, petroleum industry, etc.

Specifications:

Model no.	LD-LBR-B10
Weight	5 kgs
Dimension	360 x 300 x 155 mm
Brix Range	0.0 ~ 100 %
Wavelength	589 nm
Sample Cell	Stainless Steel
Light Source	LED
Power Supply	220 V / 60 Hz
Brix Accuracy	±0.1 %
Measuring Range	1.3000 nD ~ 1.7000 nD
Temperature Control Range	RT
Refractive Index Precision	±0.0002
Temperature Control Method	No
Refractive Index Resolution	0.0001 nD
Temperature Control Stability	RT

Benchtop Refractometer LBR-B11

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Specifications:

Model no.	LD-LBR-B11
Weight	5 kgs
Dimension	360 x 300 x 155 mm
Brix Range	0.0 ~ 100 %
Wavelength	589 nm
Sample Cell	Stainless Steel
Light Source	LED
Power Supply	220 V / 60 Hz
Brix Accuracy	±0.1 %
Measuring Range	1.3000 nD ~ 1.7000 nD
Temperature Control Range	5 °C – 65 °C
Refractive Index Precision	±0.0002
Temperature Control Method	Built-in Peltier
Refractive Index Resolution	0.0001 nD
Temperature Control Stability	±0.03 °C

Benchtop Refractometer LBR-B12

Benchtop refractometer LD-LBR-B12 is an automated unit with high performance linear CCD sensor. Adopts high precision signal collection and analysis technology with semiconductor part temperature control system. Equipped with a sapphire prism for precise refraction and TFT colour touch screen. It measures the refractive index and determines the sugar content of various liquids.

Features:

- Improved accuracy and stability with built in temperature controller
- Equipped with double temperature control, sapphire prism
- 7 inch TFT colour touch screen
- High resolution CCD sensor for signal collection
- LED light source
- Data statistical retrieval and network printing supported
- Management for Multi-level authority

Applications:

Used for determination of refractive index and sugar content in liquid as well as solid samples in laboratories, brewing and food industry, chemical industry, research institutes, pharmaceuticals, cosmetic industry, petroleum industry, etc.

Specifications:

Model no.	LD-LBR-B12
Weight	5 kgs
Dimension	360 x 300 x 155 mm
Brix Range	0.0 ~ 100 %
Wavelength	589 nm
Sample Cell	Hastelloy
Light Source	LED
Power Supply	220 V / 60 Hz
Brix Accuracy	±0.05 %
Measuring Range	1.3000 nD ~ 1.7000 nD
Temperature Control Range	5 °C – 65 °C
Refractive Index Precision	±0.0002
Temperature Control Method	Built-in Peltier
Refractive Index Resolution	0.0001 nD
Temperature Control Stability	±0.02 °C

Benchtop Refractometer LBR-B13

Benchtop refractometer LD-LBR-B13 is an automated unit with high performance linear CCD sensor. Adopts high precision signal collection and analysis technology with semiconductor part temperature control system. Equipped with a sapphire prism for precise refraction and TFT colour touch screen. It measures the refractive index and determines the sugar content of various liquids.

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- Data statistical retrieval and network printing supported
- Management for Multi-level authority

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Used for determination of refractive index and sugar content in liquid as well as solid samples in laboratories, brewing and food industry, chemical industry, research institutes, pharmaceuticals, cosmetic industry, petroleum industry, etc.

Specifications:

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Dimension	360 x 300 x 155 mm
Brix Range	0.0 ~ 100 %
Wavelength	589 nm
Sample Cell	Hastelloy
Light Source	LED
Power Supply	220 V / 60 Hz
Brix Accuracy	±0.01 %
Measuring Range	1.3000 nD ~ 1.7000 nD
Temperature Control Range	5 °C – 90 °C
Refractive Index Precision	±0.0002
Temperature Control Method	Built-in Peltier
Refractive Index Resolution	0.0001 nD
Temperature Control Stability	±0.01 °C

Benchtop Refractometer LBR-C10

The LD-LBR-C1 series is a is an automatic digital refractometer series for precise refractive index and brix measurement of liquid samples. It is designed for reliable routine testing and advanced laboratory analysis across various industries.

Features:

- Automatic measurement process reduces operator dependency
- Easy-to-use interface simplifies routine testing
- Non-destructive analysis requires only a small quantity of sample
- Quick cleaning and sample replacement between measurements
- Measurement results can be conveniently recorded and managed
- Supports consistent testing for quality-control workflows
- Suitable for different laboratory and industrial environments
- Robust benchtop construction for regular daily operation

Applications:

Suitable for food and beverage, pharmaceutical, chemical, petroleum, cosmetics, paint, sugar, geological and research laboratories for concentration analysis, product inspection and quality control.

Specifications:

Model no.	LD-LBR-C10
Display	7-inch TFT Colour Touchscreen
Dimensions	365 × 300 × 150 mm
Interfaces	RS232, USB, SD Card, U Disk, Ethernet
Net Weight	12 kg
Data Storage	4 GB
Light Source	High-brightness LED
Power Supply	110–240 V, 12 V / 10 A
Brix Accuracy	±0.1 %
Brix Resolution	0.1 %
Measuring Prism	Sapphire
Power Consumption	45 W
Brix Measuring Range	0–100 %
Refractive Index Accuracy	±0.0002 nD
Temperature Control Range	10–50 °C

Temperature Control Method	Built-in semiconductor
Refractive Index Resolution	0.0001 nD
Temperature Measuring Range	0–100 °C
Temperature Control Accuracy	±0.1 °C
Refractive Index Measuring Range	1.30000–1.70000 nD

Benchtop Refractometer LBR-C11

The LD-LBR-C1 series is a is an automatic digital refractometer series for precise refractive index and brix measurement of liquid samples. It is designed for reliable routine testing and advanced laboratory analysis across various industries.

Features:

- Automatic measurement process reduces operator dependency
- Easy-to-use interface simplifies routine testing
- Non-destructive analysis requires only a small quantity of sample
- Quick cleaning and sample replacement between measurements
- Measurement results can be conveniently recorded and managed
- Supports consistent testing for quality-control workflows
- Suitable for different laboratory and industrial environments
- Robust benchtop construction for regular daily operation

Applications:

Suitable for food and beverage, pharmaceutical, chemical, petroleum, cosmetics, paint, sugar, geological and research laboratories for concentration analysis, product inspection and quality control.

Specifications:

Model no.	LD-LBR-C11
Display	7-inch TFT Colour Touchscreen
Dimensions	365 × 300 × 150 mm
Interfaces	RS232, USB, SD Card, U Disk, Ethernet, Wi-Fi
Net Weight	12 kg
Data Storage	4 GB
Light Source	High-brightness LED
Power Supply	110–240 V, 12 V / 10 A
Brix Accuracy	±0.1 %
Brix Resolution	0.1 / 0.01 %
Measuring Prism	Sapphire
Power Consumption	45 W
Brix Measuring Range	0–100 %
Refractive Index Accuracy	±0.0001 nD
Temperature Control Range	5–80 °C

Temperature Control Method	Built-in semiconductor / Peltier
Refractive Index Resolution	0.0001 / 0.00001 nD
Temperature Measuring Range	0–100 °C
Temperature Control Accuracy	±0.02 °C
Refractive Index Measuring Range	1.30000–1.70000 nD