



**ABBE Refractometer  
LMART1317T**





## Touch Screen ABBE Refractometer LMAR1317T

### SALIENT FEATURES

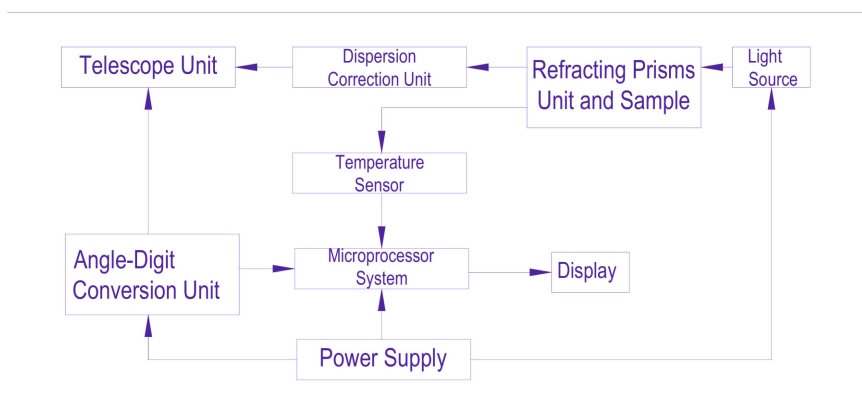
- Touchscreen Display, Range 1.30000 - 1.72000
- 5 digit decimal point precision
- Temperature range - 20°C to + 120°C
- Measurement of refractive index nD of transparent or translucent liquid and solid substances
- Measurement of the Brix of sugar solution
- Automatic correction of the effect of temperature on the Brix
- Fully automatic measuring system
- Prism made of hard glass, Memory 500 data
- It works with 589nm wavelength and uses LED as light source.



E - Catalogue

This instrument can widely be used in petroleum, chemical, pharmaceutical, sugar refining and food industries, as well as in related colleges, universities and scientific research institutions for measuring refractive index nD of transparent, semi transparent liquid. This instrument can also be used to measure the Brix (BX) of the sugar solution, and correct the effect of temperature on the Brix automatically. In addition, this instrument can also display the temperature of the sample.

### Principle Block



**STANDARD ACCESSORIES :** Main Instrument, Kit Box, Power Cable, RS232C Cable, Software Pendrive, Test Certificate

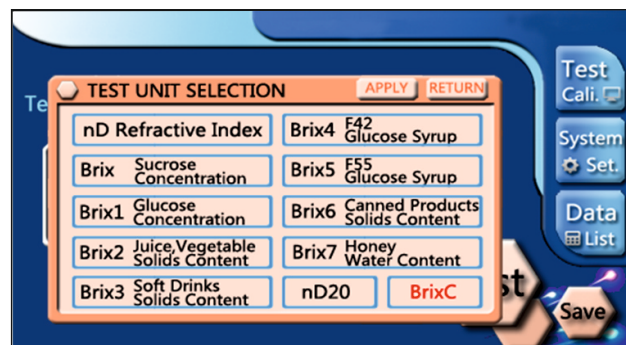
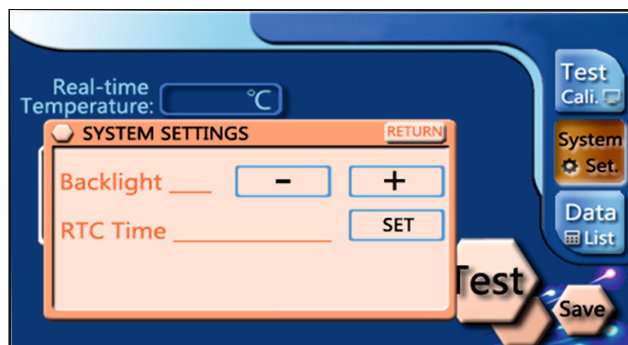
## Touch Screen **ABBE Refractometer**

HSN Code : 90275020

### SPECIFICATIONS

| Model                                    | LMAR1317T          |
|------------------------------------------|--------------------|
| Make                                     | LABMAN             |
| Measurement range Refractive index nD    | 1.30000-1.72000    |
| Measurement range dissolved solids Brix° | 0-100%             |
| Accuracy refractive index nD             | ±0.00002           |
| Accuracy Dissolved Solids Brix°          | ±0.1%              |
| Measuring resolution Refractive index nD | 0.00001            |
| Brix°                                    | 0.01%              |
| Temperature Range                        | -20°C to +120°C    |
| Temperature Resolution                   | 0.1°C              |
| Display                                  | Color touch screen |
| Interface                                | RS232C / USB       |
| Data Storage                             | 500 data sets      |
| Protection grade                         | IP20               |
| Input power                              | 30W                |
| Power Supply                             | AC 220V,50/60Hz    |
| Packing Dimensions (LxWxH)               | 365 x 245 x 445mm  |
| Gross Weight                             | 10kg               |

★ Specifications are subject to change without notice.



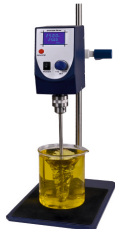
Sample temperature can be controlled by using Refrigerated Circulating Bath ( Optional )

## LABMAN Product Range 2025-26

|                                                                       |                                                           |                                                      |                                                    |                                                        |
|-----------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|
| <p>LMFD61, 62, 63, 64</p> <p>Lyophilizer Freeze Dryer (-60°C)</p>     | <p>LMFD83, 84</p> <p>Lyophilizer Freeze Dryer (-80°C)</p> | <p>LMRE25</p> <p>Rotary Evaporator</p>               | <p>ADM3</p> <p>Automatic Density Meter</p>         | <p>MSOD6</p> <p>Microvolume Spectrophotometer</p>      |
| <p>NAE32</p> <p>Nucleic Acid Extractor</p>                            | <p>EMR4</p> <p>Elisa Microplate Reader</p>                | <p>GPTC96</p> <p>Gradient PCR Thermal Cycler</p>     | <p>HO30</p> <p>Hybridization Oven</p>              | <p>UVCL254</p> <p>UV - Crosslinker</p>                 |
| <p>TGH12, 24</p> <p>Tissue Grinder Homogenizer</p>                    | <p>PBH80T</p> <p>Paddle Blender Homogenizer</p>           | <p>TOC2NDir</p> <p>Total Organic Carbon Analyzer</p> | <p>TOC1CD</p> <p>Total Organic Carbon Analyzer</p> | <p>LMDS600, 1200</p> <p>Microwave Digestion System</p> |
| <p>HPLC1IS, HPLC2GS</p> <p>High Performance Liquid Chromatography</p> | <p>APT1800</p> <p>Automatic Potential Titrator</p>        | <p>KFT250VC</p> <p>Karl Fischer Titrator</p>         | <p>COD1500</p> <p>COD Analyzer with Digestor</p>   | <p>BOD4000</p> <p>BOD Analyzer</p>                     |
| <p>MTVM50</p> <p>Multi Tube Vortex Mixer</p>                          | <p>LMVM60D</p> <p>Vortex Mixer</p>                        | <p>OS20</p> <p>Orbital Shaker</p>                    | <p>TRM6</p> <p>Tube Roller Mixer</p>               | <p>DBNE12, 24</p> <p>Dry Bath Nitrogen Evaporator</p>  |



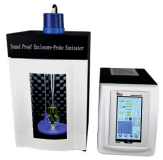
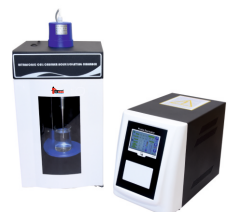
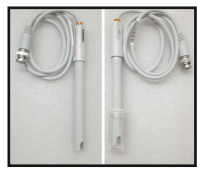
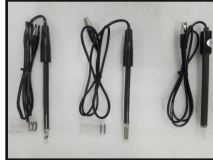
## LABMAN Product Range 2025-26

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| <b>DBI11T</b><br><br><b>Dry Bath Incubator</b>               | <b>DBI15SH, DBI16SC</b><br><br><b>Dry Bath Incubator</b>     | <b>IRS14, 35</b><br><br><b>Infrared Sterilizer</b>       | <b>GGA200</b><br><br><b>Air Generator</b>                                                           | <b>GGA301, 302</b><br><br><b>Hydrogen Generator</b>                            |
| <b>GGN303</b><br><br><b>Nitrogen Generator</b>               | <b>GHA304</b><br><br><b>Hydrogen Air Generator(2 in 1)</b>   | <b>LMVP10</b><br><br><b>Vacuum Pump</b>                  | <b>LMVP20</b><br><br><b>Vacuum Pump</b>                                                             | <b>LMCO1</b><br><br><b>Column Oven</b>                                         |
| <b>LMIO6</b><br><br><b>Mini Thermostatic Incubator</b>      | <b>GHP400</b><br><br><b>Graphite Hotplate</b>               | <b>LOBMS5</b><br><br><b>Oil Bath Magnetic Stirrer</b>   | <b>LMMS4LC, 20LC</b><br><br><b>Ceramic Hotplate Magnetic Stirrer</b>                                | <b>LMMS300</b><br><br><b>Hotplate Magnetic Stirrer</b>                        |
| <b>MMS15S</b><br><br><b>Multiposition Magnetic Stirrer</b> | <b>MMS12H</b><br><br><b>Multiposition Magnetic Stirrer</b> | <b>WBMS3</b><br><br><b>Water Bath Magnetic Stirrer</b> | <b>LMWB2H, 4H, 6H, 8H</b><br><br><b>Digital Water Bath</b>                                         | <b>HOS20L</b><br><br><b>Overhead Stirrer</b>                                 |
| <b>LMHH160</b><br><br><b>Hand Held Homogenizer</b>         | <b>PS1565</b><br><br><b>Peltier / Sipper System</b>        | <b>LUV6HG</b><br><br><b>PMT Spectrophotometer</b>      | <b>LUV2000T, 2100T</b><br><br><b>Single / Double Beam UV-Vis.<br/>Spectrophotometer with 21CFR</b> | <b>LMSPUV SERIES</b><br><br><b>Double Beam<br/>UV-Vis. Spectrophotometer</b> |

## LABMAN Product Range 2025-26

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| <p><b>LMSPUV1200</b></p>  <p>UV-Vis. Single Beam Spectrophotometer</p> | <p><b>LMSPV320, 325</b></p>  <p>Visible Spectrophotometer</p>     | <p><b>ADP100CFR, 95CFR</b></p>  <p>Automatic Digital Polarimeter with CFR</p> | <p><b>ADP45, 50</b></p>  <p>Automatic Digital Polarimeter (±45°)</p> | <p><b>ADP75, 90</b></p>  <p>Automatic Digital Polarimeter (±90°)</p>        |
| <p><b>ADP40</b></p>  <p>Automatic Digital Polarimeter</p>              | <p><b>LMPM180</b></p>  <p>Manual Polarimeter</p>                  | <p><b>MAR100</b></p>  <p>Manual ABBE Refractometer</p>                        | <p><b>RFM100CFR</b></p>  <p>Digital Refractometer CFR</p>            | <p><b>RFM950, 970</b></p>  <p>Digital Refractometer</p>                     |
| <p><b>LMAR1317T</b></p>  <p>ABBE Refractometer</p>                    | <p><b>LMDV300H</b></p>  <p>Digital Viscometer with Thermosel</p> | <p><b>LMDV60, 100, 200</b></p>  <p>Digital Viscometer ( L Series )</p>       | <p><b>LMDV400R</b></p>  <p>Digital Viscometer ( R Series )</p>     | <p><b>LMKV2</b></p>  <p>Krebs Viscometer</p>                               |
| <p><b>LMDV111, 222</b></p>  <p>Digital Viscometer with SSA</p>       | <p><b>LVA30</b></p>  <p>Low Viscosity Adaptor</p>               | <p><b>LMCR80F</b></p>  <p>Visual Colorimeter</p>                            | <p><b>LMUC2D</b></p>  <p>Ultrasonic Cleaner</p>                    | <p><b>LMUC3D, 6D, 9D, 12D, 25D</b></p>  <p>Ultrasonic Cleaner - Degas</p> |
| <p><b>LMUC50, 100</b></p>  <p>Industrial Ultrasonic Cleaner</p>      | <p><b>LMPH15</b></p>  <p>pH Meter with Printer</p>              | <p><b>LMPH12, LMPH10H</b></p>  <p>pH Meter</p>                              | <p><b>LMPH9</b></p>  <p>pH Meter - Basic</p>                       | <p><b>LMCM20H</b></p>  <p>Conductivity / TDS Meter</p>                    |

## LABMAN Product Range 2025-26

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| <p><b>LMCM20H</b></p>  <p><b>Conductivity / TDS Meter</b></p>          | <p><b>LMMP30, 32</b></p>  <p><b>Multiparameter (7 in 1 / 9 in 1)</b></p> | <p><b>LMION40</b></p>  <p><b>Ion Meter</b></p>                   | <p><b>LMDO50</b></p>  <p><b>Dissolved Oxygen Meter</b></p>                         | <p><b>LMHD60</b></p>  <p><b>Water Hardness Meter</b></p>           |
| <p><b>OPH11</b></p>  <p><b>Online pH Controller</b></p>                | <p><b>OCM21</b></p>  <p><b>Online Conductivity Controller</b></p>        | <p><b>LMTB200</b></p>  <p><b>Turbidity Meter</b></p>             | <p><b>RCB1010T, 1020T, 1030T</b></p>  <p><b>Refrigerated Circulating Bath</b></p> | <p><b>RCB620T</b></p>  <p><b>Refrigerated Circulating Bath</b></p> |
| <p><b>RWC320</b></p>  <p><b>Recirculating Water Chiller</b></p>       | <p><b>LMDO4P</b></p>  <p><b>Portable DO Meter</b></p>                   | <p><b>LMPH1P</b></p>  <p><b>Portable pH / ORP Meter</b></p>     | <p><b>LMCM2P</b></p>  <p><b>Portable Conductivity / TDS Meter</b></p>             | <p><b>LMTB5P</b></p>  <p><b>Portable Turbidity Meter</b></p>      |
| <p><b>PRO656, 900, 1200, 1800</b></p>  <p><b>Probe Sonicator</b></p> | <p><b>PRO660R</b></p>  <p><b>Probe Sonicator with Remote</b></p>       | <p><b>PRO650</b></p>  <p><b>Probe Sonicator</b></p>            | <p><b>LMIF30T, 50T, 100T</b></p>  <p><b>Ice Flaker</b></p>                      | <p><b>LMIF200T</b></p>  <p><b>Ice Flaker</b></p>                 |
| <p><b>LMIM15</b></p>  <p><b>Ice Maker</b></p>                        | <p><b>LMIM20C</b></p>  <p><b>Ice Maker with Crusher</b></p>            | <p><b>ISE19, 62</b></p>  <p><b>Nitrate / Fluoride ISEs</b></p> | <p><b>ER SERIES</b></p>  <p><b>pH Electrode / DO Electrode</b></p>               | <p><b>CC1, CC2, CC3</b></p>  <p><b>Conductivity Cell</b></p>     |