

## Abbe Refractometer DR-A1-Plus

This model features a brighter field of view than its predecessor the DR-A1, making it easier to measure inhomogeneous and/or dark samples. By very simple operation that needs only to set the boundary line of refraction at the cross hairs, this refractometer directly indicates a measured value in refractive index or Brix (%). This model enables to carry out measurement easily without reading of analog graduation. It can be connected to a printer and computer. Please note that dispersive value cannot be measured by this refractometer.

### Specifications

Model	DR-A1-Plus
Cat.No.	1311
Range	Refractive index (nD) : 1.3000 to 1.7100 Brix : 0.0 to 100.0% (Automatic Temperature Compensation at 5 to 50°C)
Minimum Scale	Refractive index(nD) : 0.0001 Brix : 0.1%
Accuracy	Refractive index (nD) : $\pm 0.0002$ Brix : $\pm 0.1\%$
Measurement Temp.	5 to 50°C
Light source	LED (Approximating to wavelength of D-Line)
Output	(1) Digital Printer DP-AD(C) (Optional) is used. (2) Communication system : RS-232C
Dimensions & Weight	13×29×31cm, 6.0kg (Refractometer)

Special Order Option : The sample stage height can be customized.

### Accessories

- Digital printer DP-AD(C) (Dot matrix printer) : Cat.No.3146
  - RS-232C Cable For Personal Computer (D-Sub9Pin) : RE-15305
  - Adapter for film sample : RE-1581
  - 10% Sucrose ( $\pm 0.03\%$ ) : RE-110010
  - 20% Sucrose ( $\pm 0.03\%$ ) : RE-110020
  - 30% Sucrose ( $\pm 0.03\%$ ) : RE-110030
  - 40% Sucrose ( $\pm 0.04\%$ ) : RE-110040
  - 50% Sucrose ( $\pm 0.05\%$ ) : RE-110050
  - 60% Sucrose ( $\pm 0.05\%$ ) : RE-110060
  - Test piece A with m-naphthalene : RE-1195
  - Eyepiece for polarizing : RE-1146
  - Desiccant (10g) : RE-8100
- \* Calibration Certificate : Contact an ATAGO representative for details.