

AR - 3700

Auto Refractokeratometer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

▶▶ **Introduction:**

MEASUREMENT MODE

K/R Mode	Continuous Keratomerry and Refractometry
REF Mode	Refractometry
KER Mode	Keratomerry
CLBC Mode	Contact Lens Base Curve Measurement
K(P) Mode	Peripheral Keratometry

REFRACTOMETRY

Vertex Distance (VD)	0.0, 12.0, 13.5, 15.0
Sphere (SPH)	-25.00 +22.00 D (when VD-12 mm) (Increments: 0.12 and 0.25 D)
Cylinder (CYL)	0.00 - ±10.00 D (Increments : 0.12 and 0.25 D)
Axis (AX)	1~180 (Increments: 1°)
Cylinder Form	- , +, MIX
Pupil Distance (PD)	10-88mm
Minimum Pupil Diameter	02.0mm



KERATOMETRY

Radius of Curvature	5.0 10.2 mm (Increments: 0.01 mm)
Corneal astigmatism	33.00 67.50 D (when cornea equivalent refractive index is 1.3375) (Increments : 0.05/0.12/0.25 D)
Corneal astigmatism	0.00 -15.00 D (Increments : 0.05/0.12/0.25 D)
Axis	1~80 (Increments: V)

OTHERS

Corneal Diameter	2.0~14.0 mm (Increments: 0.1 mm)
Memory of Data	10 measured value for each eye
Internal Printer	Thermal line printer with Auto-Cutter function
Monitor	14.48cm(5,7 inch) TFT LCD (640x480 pixels. Touch-Screen function)
Power supply	AC 100-240V, 50/60Hz
Dimensions	Approximately 260(W)x500(D)x450(H) mm
Weight	Approximately 20kg

▶▶ Refraction & Kertometry Measurement

AR-3700 provides an extensive dioptric measurement range (-25D to +22D), and the radius of curvature for keratometry is 5.0mm to 10.2mm. Easy alignment and friendly operation allows you to measure the refraction and keratometry in sequence, and the results can be validated immediately. Owing to its easy alignment and friendly operation which you can measure the refraction and keratometry in a sequence, the results can be checked all at once.



▶▶ Peripheral Kertometry

Peripheral corneal curvatures can be measured by having the examinee look at the peripheral eye fixation lamps. Measuring the corneal periphery will help you examine irregular astigmatism, and also determine a better fining for a contact lens



▶▶ Intuitive Diameter Measurement

Using the freeze function, measurement of the diameter of the cornea, pupil or hard contact lenses worn by the patient can be performed. By simply touching and dragging the screen with your finger measurements are exactly calculated.



▶▶ IOL Measurement

When refraction results in an error reading due to an intraocular lens or cataract the measurement can be performed with the IOL icon switched 'ON'

▶▶ **TFT-LCD with Touch Screen and Convenient control**

By adopting high resolution VGA TFT-LCD with Touch Screen function, we virtually removed all input keys except the measurement button on the Joystick and Chinrest control switches. Tests are performed rapidly and conveniently by simply pressing a button or the icon indicated on the screen. Also, user can use the Key button as convenient function.

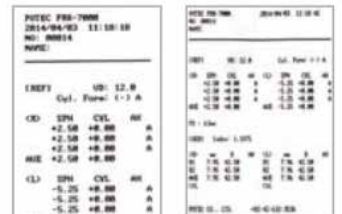
▶▶ **Motorized chinrest**

The chinrest is motorized with the use of a switch conveniently positioned for the operator. This makes for simple adjustment of the chinrest from patient to patient.

There is the motorized chinrest which makes user easy to control by the simple switch pressing up and down.

▶▶ **Printer with Auto Cutter Function**

AR-3700 immediately provide a complete printout of the measurement results and an auto cutter is provided for convenience. And there is the economy mode of printer which makes printer paper saved by being well arranged and amended letter size.



| Economy mode

| Normal mode

▶▶ **Data transfer**

Data can be transferred to external devices (personal computer, etc.) via an RS-232 interface. A USB interface is also provided for future compatibility.

And user can send the images of patient's eyes through USB port and have the faster SIW upgrade by the PC program which is provided as option.

▶▶ **The tilting LCD for user**

The 90° tilting LCD provides easy control by user standing or sitting.

▶▶ **The convenience stage-lock**

User can fasten the main body by simple control.



The tilting LCD for user

▶▶ Instant Display Data

By simply touching the icon on the screen results of up to 10 measurements stored in memory can be viewed or printed by the built in thermal auto cut-off printer.

▶▶ Interactive SETUP Change

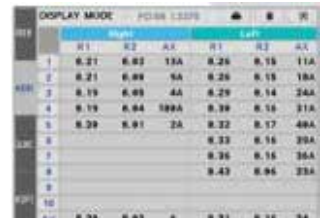
Simply touch the icon on the screen and changed settings can be seen. The touch screen supports interactive setting changes quickly and conveniently saving user time innovatively.

▶▶ Assistant measurement function

AR-3700 provides the assistant measurement function for the eyes which have different measuring between center of miring and center of REF focus.

▶▶ The guidance function for measuring

AR-3700 indicates the directions for focusing the center of the measuring eye and shows the conditions of focusing for the measurement convenience



	Right	Left		Right	Left
1	0.21	0.02	13A	0.26	0.15
2	0.21	0.04	5A	0.26	0.15
3	0.19	0.03	4A	0.29	0.14
4	0.19	0.04	100A	0.39	0.16
5	0.20	0.01	2A	0.22	0.17
6				0.33	0.16
7				0.36	0.15
8				0.43	0.06
9					
10					



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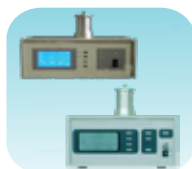
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DSC/TGA



Semi Auto Bio
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Ion Chromatograph



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system

Regulatory compliances



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3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analycalgroup.net
www.hplctechnologies.com
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