



Matrix

AUTOREFRACTOMETER: R-20+
&
AUTOREFKERATOMETER: KR-20+



Salient Feature:

Extra ordinary Japanese ARM processor with 21st century image processing algorithm and latest software are responsible for most accurate and fast measurement.

Dual CCD camera technology with 5.7 inch hi-resolution color LCD display.

Accurate & wide measurement range with Auto, Manual & IOL mode of operation.

Provides corneal curvature both in mm as well as in Diopter (Only in KR 20+)

Cornea & pupil size measurement in mm, through on-screen cursor adjustment.

Faster & accurate reading with wider measuring area within small pupil.

On-Screen display of 10 measurements per Eye with PD & Average data for subjective test



AUTOREFRACTOMETER: R 20+ AUTOREFKERATOMETER: KR 20+

With Advanced & Upgradable Software

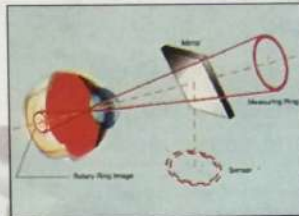
Matrix an established & trusted brand in the field of ophthalmology & Optometry since a decade. Innovative design, excellent quality & supported by best Post-sales –service have made the name most familiar amongst its users all over the world: Continuous in-house R&D have made all matrix products very user-friendly and upgradable at any point of time. Matrix Promises to provide the best technology at affordable price with unmatched durability, accuracy & truly maintenance free operations.



Scientifically designed (bright colored scenic picture) fixation target & Innovative Japanese optical path system with advanced auto-fogging technology provides more precise measurement, against accommodation.



Reliable & fast thermal printer with easy paper loading features, provides hard-copy of measured data with different forms of print formats as selected by operator.



The unique ARM processor & the latest image processing algorithm are responsible for extremely accurate measurements. Also Automatic measurement mode eliminates manual operational errors.



Matrix Digital Phoropter DAP-30+

COMPATIBLE WITH MATRIX DIGITAL AUTO-PHOROPTER DAP-30+ (Optional) through RS-232 communication port to transform it in to a complete Optometry system with Chair unit and Chart Projector.



Clear & hi-resolution 5.7 inch color LCD monitor with bright & eye-soothing colorful display of icons for easy identifications.



Records 10 measurements per Eye and automatically display the results of both R/L eye with Average & PD for objective test if required.



Easy one key knob, to prevent unwanted movement over base during intermittent use.

Technical Specifications: - R20+ / KR 20+

Refractive Measuring Range	Sph: $\pm 25D$ / Cyl: $\pm 10D$ (0.12D or 0.25D step) Axis: 1~ 180 degree(1 degree step)
Keratometer Measurement (Only with Autorefractometer: KR-20+) Range	Radius of corneal curvature 5.0~10mm (0.01mm step) Corneal Refraction: 30.00D~67.00D (0.12D/0.25D step) (n=1.3375) Corneal Astigmatism 0~15.00D (0.12D/0.25D step) / Axis: 1~180 Measurement Area: 3.16mm (R=7.7 mm) Corneal Size measurement: 2mm to 12mm
Measurement Mode	Auto - Quick 3/ Manual / IOL (selectable from Monitor)
Mode of operation	REF / KER / R&K / IOL mode (As selected)
Vertex Distance	0, 12, 13.5 or 15 mm (selectable)
Min. Pupil Size to measure	$\varnothing 2.00$ mm
Measurable Distance PD	30 ~ 85 mm (1 mm step), Automatic
Measurable cornea, IRIS & Pupil size	2.00 mm ~ 12.00 mm by adjusting the cursor on the image
Fixation Target	Scientifically designed auto-fogged scenic picture
Printer	Fast thermal printer with easy paper load facility
Internal Monitor	5.7 inch hi-resolution color LCD monitor
Shifting Range	Back & forth : ± 19 mm, right & left : ± 44 mm, UP & DN : ± 19 mm, Chin & rest : ± 30 mm,
Power Saving Function	OFF / 5 min or 15 min (selectable)
Data Transmission	RS-232C interface (For Auto Phoropter & PC Connection)
Power source / Consumption	110~240V AC. 50~60Hz / 50 VA or less
Dimensions / weight	288(W) X 500(D) X 480(H) mm / 14 kg
Standard Accessories	Dust Cover, Power Cord, Pair of Paper Roll, Model Eye
Optional Accessory:	Motorized Table, Interface cable, PD Meter, Auto Phoropter : DAP-30+



Motorised Table (optional)

Elegant look, smooth movement Matrix Motorised table (MMT-100) for Refractometer & other Ophthalmic equipments. Also available Matrix heavy duty motorised table (MMDT-200) large top with drawer for two equipments.



Fully computerised AUTO OPTOMETRY SYSTEM with digital phoropter : DAP-30+ & Chart projector.



Mediscience Services

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