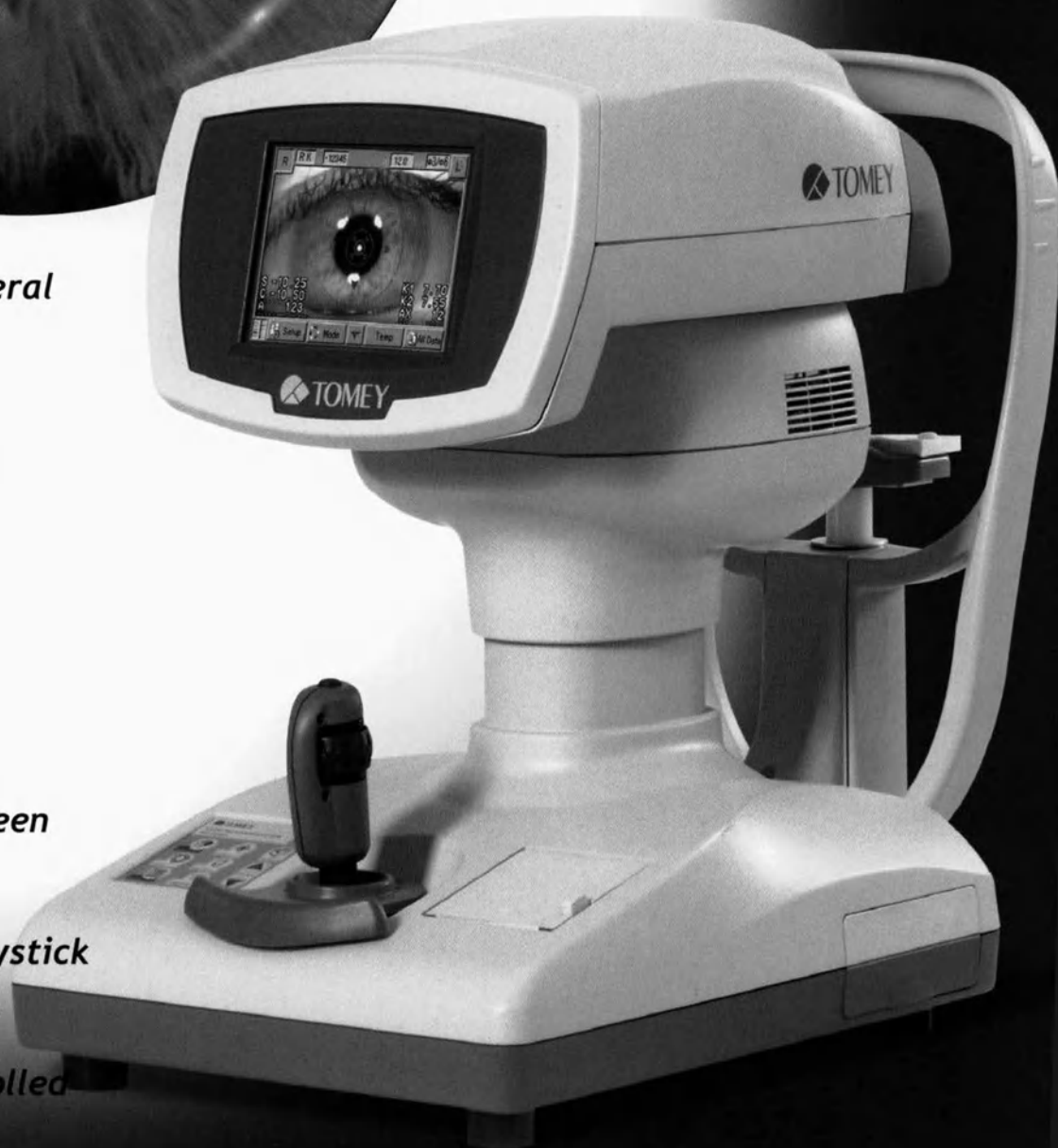


ELECTRONIC

REFRAKTOR-KERATOMETER

► *TOTALLY ELECTRONIC CONTROLLED RC-5000*

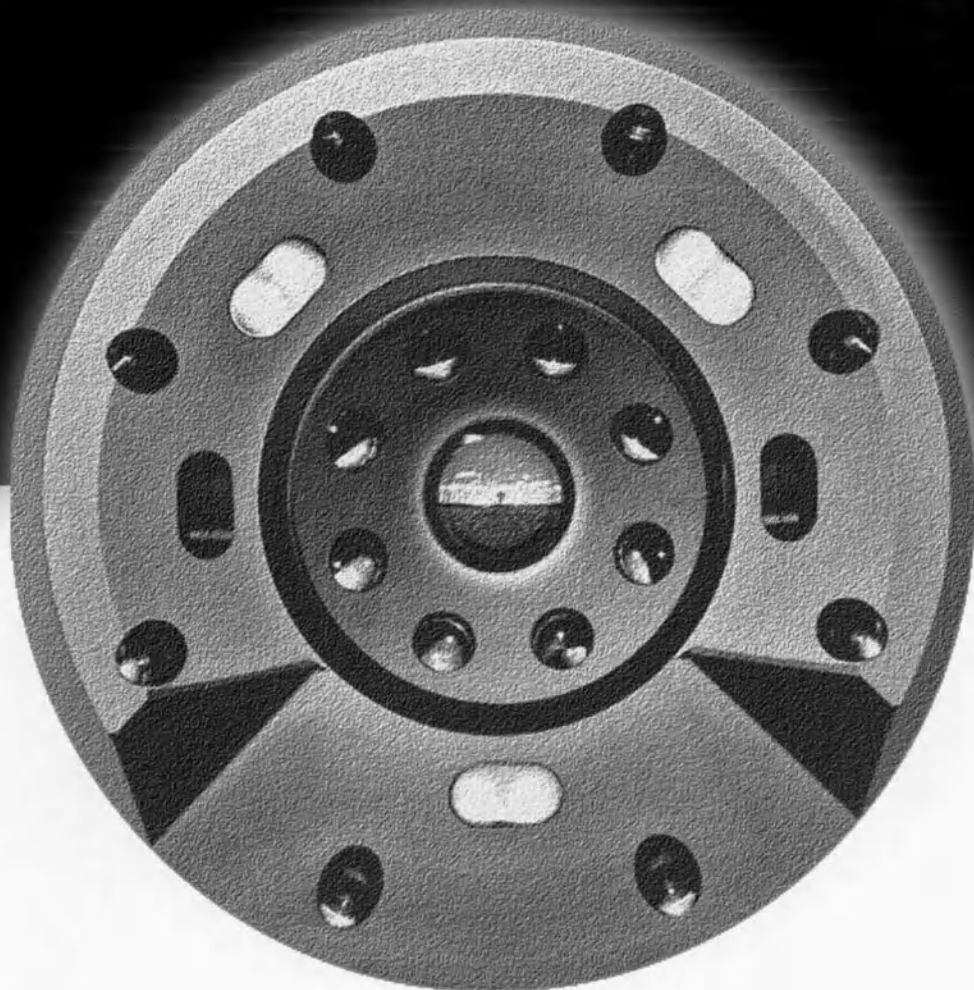
- *Central + Peripheral K-Values*
- *Auto Alignment + Auto Shot*
- *Pupil + Cornea $\varnothing$ Measurement*
- *Colour Touch Screen*
- *Power Motion Joystick*
- *Electronic Controlled Chinrest*
- *Extremely Fast Operation*



 **TOMEY**
TECHNOLOGY AND VISION

THE FUTURE IS NOW

THE TOTALLY ELECTRONIC CONTROLLED TOMEY RC-5000



The new RC-5000 sets the standard of modern eye diagnostic devices to the latest electronic technology innovations. Thanks to the electronic controlled movement you can operate and align the RC-5000 through both - power

motion joystick and/or touch screen - all this in fraction of seconds. Highly accurate measurements combined with the very short examination time and easy handling makes working with the TOMEY RC-5000 professional and quick.

Power Motion Joystick

The RC-5000 is equipped with the latest available joystick technology on the market. Five power motion modes ensure a precise and silent movement of the unit in all directions. You have the choice between rough or fine adjustment towards the patient eye.

Colour Touch Screen

The 5.7 inch colour touch screen is used as operating monitor as well as for displaying all measured values. You can even move the unit in all directions by simply touching the screen. All commands can be done via touch screen.



Power Motion Joystick



Auto Alignment + Auto Shot

The handling of the RC-5000 is very easy - it does almost everything by itself. Alignment and measurement are done automatically. You just roughly align the system towards the patient eye and the rest is taken care of by the instrument. With a tip on the screen the system automatically moves to left or right eye.

Pupil + Cornea ØMeasurement

Once you have captured your patients eye you can set the pupil and cornea measurement bars to individual diameters. These values will also be stored, displayed and printed.

Extremely Fast Operation

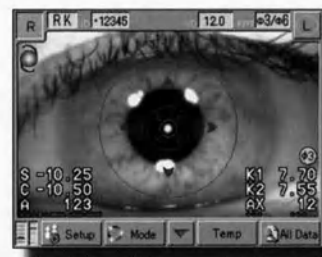
The RC-5000 acquires the data even in combined mode (refraction and keratometry) in less than three seconds. This short examination time makes the unit as cost and time effective as possible.

Central + Peripheral K-Values

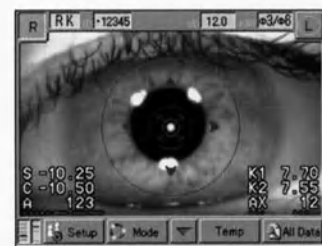
The RC-5000 provides you the central ($\varnothing$ 3 mm) and peripheral ($\varnothing$ 6mm) keratometer readings measured at one time within a second. You can take these readings from a cornea or the back surfaces of a RGP contact lens.

Electronic Controlled Chinrest

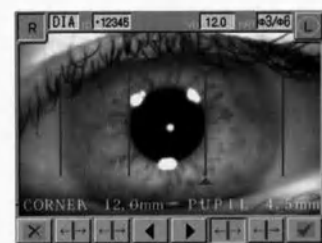
Since all movements of the RC-5000 are electronically controlled - of course also the chinrest follows your advice by adjusting the patient up or down by just pressing a button. For the mounting on a refraction unit you can easily disassemble the chinrest from the main body.



Auto Alignment



Auto Shot



Pupil + Cornea ØMeasurement

SPECIFICATIONS

NAME: _____
 DATE: Oct. 26, 2004 11:45
 No. : 000001

<RIGHT>

[REF VD=12.0mm]

SPH	CYL	AXIS
+0.50	-1.25	91 0

* +0.50	-1.50	91 0
---------	-------	------

0.00	-0.50	91 3
------	-------	------

[KRT ϕ 3mm]

	mm	D	AXIS
K1	8.28	40.76	99
K2	8.23	41.01	9
AVG	8.26	40.86	
CYL		-0.25	99

K1	8.30	40.66	91
K2	8.26	40.86	1
AVG	8.28	40.76	
CYL		-0.20	91

K1	8.26	40.86	71
K2	8.23	41.01	161
AVG	8.25	40.91	
CYL		-0.15	71

[KRT ϕ 6mm]

	mm	D	AXIS
K1	8.41	40.13	106
K2	8.16	41.36	16
AVG	8.29	40.71	E
CYL		-1.23	106

K1	8.19	41.21	130
K2	8.13	41.51	40
AVG	8.16	41.36	e
CYL		-0.30	130

K1	8.23	41.01	87
K2	8.09	41.72	177
AVG	8.16	41.36	E
CYL		-0.71	87

[RA]

BC	P	RA	AXIS
7.85	-5.75	+0.38	39

[CL-DATA]

CL NAME	BC	Dia
Menicon Z	7.60	9.2
Menicon EX	7.75	8.8

[DIA]

PUPIL	CORNEA
5.6mm	13.3mm



Refractive Power Measurement

Spherical (SPH) -25.00 D to +22.00 D
 (at VD=12.0 mm)

Cylindrical (CYL) 0 D to ± 10.00 D
 (at VD=12.0 mm)

Display Unit 0.01 D, 0.12 D, 0.25 D

Astigmatism Axial

Angle (AXIS) 0°-180°

Display Unit 1°

Minimum Pupil ϕ 2.2 mm

Vertex Distance 0 mm, 12.0 mm, 13.5 mm,
 14.0 mm, 15.5 mm, 16.0 mm

Measurement Time 0.2 sec/single eye
 (data taking time)

Pupillary Distance Measurement

Measurement Range 50-86 mm
 Display Unit 1 mm

Corneal Diameter and Pupillary Diameter Measurement

Measurement Range 1-14 mm
 Display Unit 0.1 mm

Observation Range approx. 15 mm $\times$ 9 mm

Auto-alignment Range

Up-down/Left-right
 Directions 7 mm
 Focusing Direction 5 mm

Corneal Measurement

Curvature

(K1, K2, AVG) 5.00 mm-11.00 mm

Display Unit 0.01 mm

Refractive Power

(K1, K2, AVG) 30.68 D-67.50 D (n=1.3375)

Astigmatism (CYL) 0 D-10 D (n=1.3375)

Display Unit 0.01 D

Astigmatism Axial

Angle (AXIS) 0°-180°

Display Unit 1°

Cornea ϕ 3.0 mm/6.0 mm

(at 8.00 mm corneal curvature)

Measurement Time 0.1 seconds/single eye
 (data taking time)

Main Unit

Built-in Printer Thermal printer

Movable Part

Movement Range Front-rear: 40 mm
 Left-right: 88 mm
 Up-down: 50 mm

Chin Rest Movable Range 70 mm

Data Output Type RS232C

Display 5.7 inch TFT

Dimensions and Electric Requirements

Dimensions (WxDxH) 300 $\times$ 493 $\times$ 466 mm

Weight approx. 19 kg

Power Supply 100-240 V AC

Frequency 50/60 Hz

Consumption power 130 VA-150 VA



Operation Panel

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