

Innovative Eyecare Technology with Foresight

TR4000

[AutoRefractor]



- Real-time Dioptric Display
- Fast Examination Time
- Adjustable Vertex Distance
- Automatic PD Measurement
- Stand-by (Sleep) Function

Automatic refraction measurements

The TOMEY TR-4000 AutoRefractor provides highly accurate measurement of patients' refractive error. This measurement is obtained simply by pushing a button. Patient alignment is simple and effortless with the joystick controller. The TR-4000 automatically calculates interpupillary distance (PD) based on the patient's alignment.

Fast and accurate measurement

With dual CCD cameras for accurate, reliable and repeatable measurements, the TR-4000 offers a fast (0.3 seconds) measurement time and a unique multi-averaging system for accurate refraction readings.

Data output

Refraction results are immediately available on-screen and from the system's quiet, built-in, high-speed printer. Results can also be transferred to the office database via the integral RS-232C connection.

Power saving features

The stand-by, or sleep, mode is automatically activated after five or ten minutes (operator selected) of idle time. This reduces power consumption, resulting in operating cost savings, and increases the overall lifetime of the TR-4000. Simply push the joystick button to reactivate the device.



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The Tomey TR-4000 AutoRefractor
Dual CCD cameras provide fast, accurate, reliable and repeatable measurements. The Tomey TR-4000 offers superb quality at an excellent price.

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[Specifications]

Measurement Ranges	
Sphere	-20 D - +20 D
Cylinder	-8 D - +8 D
Axis	0 - 180°
PD	50 - 86 mm
Working Distance	40 mm
Unit Increments	
Power	0.12, 0.25 Diopters
Axis	1°
Measurement Time	0.3 seconds
Minimum Pupil Diameter	2.5 mm
Measurement Display	Simultaneous display of real-time and acquired SPH, CYL and AXIS values
Output	Built-in thermal printer RS-232C serial port
Patient Target	Landscape
Measurement Window	24 mm x 18 mm (0.95 x 0.71 inches)
Display	127 mm (5") monochrome CRT
Focusing System	Target on CRT Display
Accommodation Relaxation Method	Auto fogging
Joystick Range	Forward/back: 40 mm (1.6 inches) Left/right: 86 mm (3.4 inches) Up/down: 30 mm (1.2 inches)
Weight	18 kg (40 lbs)
Dimension	307 mm (w) x 470 mm (d) x 470 mm (h) 12" (w) x 18.5" (d) x 18.5" (h)
Power	AC 100 V to 240 V, 50/60Hz, 65VA

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