

TS-610/310 Specifications

Model	TS-610	TS-310
Chart		
Chart type	T, UK, M, P, PhM, C	←
Refraction distance	Distance: 5 m, Near: 40 cm	←
Mask	Horizontal line, Vertical line, Single letter	←
Filter	Red/Green	←
Binocular vision test	Red-green, Prism	←
Refractor		
Measurable range		
Sphere	-29.00 to +26.75 D (0.12/0.25/0.50 to 3.00 D increments) -19.00 to +16.50 D (cross cylinder test, prism test)	-19.00 to +16.75 D (0.25/0.5 to 3 D increments)
Cylinder	0.00 to ±8.75 D (0.25/1.00/2.00/3.00 D increments)	0.00 to ±6.00 D (0.25/1 D increments)
Axis	0 to 180° (1°/5°/15° increments)	0 to 180° (1°/5° increments)
PD	48 to 80 mm	←
Prism	54 to 80 mm (100% convergence possible PD) 0.00 to 20.00Δ (0.1/0.5/2Δ increments)	←
Auxiliary lens		
Cross cylinder lens	±0.25, ±0.50, ±0.25 D auto cross	±0.25 D
Occluder	Available	←
Pinhole plate	ø2.0 mm	←
Red/Green filter	Right eye: red, Left eye: green	←
PD check lens	Available	←
Fixed cross cylinder lens	±0.50 D (fixed with the Axis set at 90°)	←
Spherical lenses for retinoscope	0/+1.5/+2.0 D (selectable by setting)	+1.5/+2.0 D (selectable by setting)
Red Maddox rod	Right eye: horizontal, Left eye: vertical	←
Dissociation prism	Right eye: 6ΔBU / Left eye: 10ΔBI	Right eye: 6ΔBU / Left eye: 10ΔBI, Right eye: 3ΔBD / Left eye: 3ΔBU
Dissociation prism for binocular balance*1	Right eye: 3 to 10ΔBD / Left eye: 3 to 10ΔBU	-
Dissociation prism for horizontal phoria*1	Right eye: 3 to 10ΔBU / Left eye: 3 to 10ΔBD	-
Dissociation prism for vertical phoria*1	Right eye: 5 to 15ΔBI / Left eye: 5 to 15ΔBI	-
Fixed cross cylinder & dissociation prism for horizontal phoria*1	Right eye: 3 to 10ΔBU / Left eye: 3 to 10ΔBD	-
Binocular open fogging	0.00 to +9.00 D	-
Visual field	40° (VD = 12 mm), 39° (VD = 13.75 mm)	←
Forehead rest adjustment	25±5 mm	14 ±2 mm
Vertex distance marking	12, 13.75, 16, 18, 20 mm	←
Level adjustment	±2.5°	←
Refractor arm	Electrically-driven	←
Up-and-down of refractor arm	190 mm	←
Display	10.4-inch color LCD	5.7-inch color LCD
Printer	High speed line printer	Built-in high speed line printer
Interface	LAN: 3 ports USB: 1 port for barcode scanner / magnetic card reader Wireless LAN*2 (optional)	RS-232C: 1 port for an auto refractometer or a computer
Power supply	AC 100 to 240 V, 50/60 Hz	←
Power consumption	200 VA	130 VA
Dimensions*3	The refractor head vertical motion unit is at the bottom. 446 (W) x 520 (D) x 763 (H) mm 17.6 (W) x 20.5 (D) x 30.0 (H)" The refractor head vertical motion unit is at the top. 446 (W) x 487 (D) x 907 (H) mm 17.6 (W) x 19.2 (D) x 35.7 (H)"	The refractor head vertical motion unit is at the bottom. 446 (W) x 519 (D) x 763 (H) mm 17.6 (W) x 20.4 (D) x 30.0 (H)" The refractor head vertical motion unit is at the top. 446 (W) x 487 (D) x 907 (H) mm 17.6 (W) x 19.2 (D) x 35.7 (H)"
Mass	34.3 kg*4 75.6 lbs.*4	32.0 kg*5 70.5 lbs.*5
Standard accessories	Forehead rest, Face shields, VD check adapter, Stylus pen, Printer paper, Dust cover, Power cord, Cover plate, Cap, Screw, Hexagonal wrench, Phillips screwdriver, Communication cable	←
Optional accessories	Eye Care card, Wireless LAN module, Magnetic card reader, Barcode scanner, Memory box, LAN cable, Control console tray, Control console - printer adapter	Eye Care card, Memory Box, Communication cable for an auto refractometer, Communication cable for a computer, Control box tray

*1 Changeable in increments of 0.5Δ for monocular measurement *2 Wireless LAN interface is installed only for the countries (regions) certified by the Radio Law.

*3 Control console/box excluded *4 Refractor head, control console, relay box, and printer included *5 Refractor head and control box included

Product/Model name: REFRACTOR RT-6100

Tabletop Refraction System TS-310

All LCD images are simulated.

Brochure and listed features of the device are intended for non-US practitioners.

Specifications may vary depending on circumstances in each country.

Specifications and design are subject to change without notice.

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