

VT-5



Manual phoropter employing a unique convergence mechanism
useful for myopia and astigmatism testing

We have drawn on our wide experience and vast amount of technical know-how accumulated in this field to develop a more precise and labour saving tester. Designed for smooth, precise testing of myopia and astigmatism.



- Attractive delicate, beautiful design.
- Cross cylinder and rotary prism provide the wide field of view.
- Employs an unique mechanism in convergence system.
- Testing range greatly widened by the big selection of auxiliary lenses provided.
- The oil-less bearings enhance precision and durability.
- When used in conjunction with a chart projector, it enables the assessment of a wide range of visual functions, including binocular vision, stereopsis and aniseikonia.
- High-grade coating executed on all surfaces of lenses.



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Level adjustment

Level adjustment can be made easily in one-touch operation by using the leveling knob and level.



Interpupillary adjustment

The wide range of adjustment of 48mm through 80mm and easy to read scale in 1mm graduation.

Convenient knobs, located on both sides, enable smooth and rapid adjustment.



Adjusting sphere power readings

Adjustment can be made exactly from -19.00D to +16.75D in 0.25D steps and the sphere power rapid feed dial allows rapid eye examination per $\pm 3.00D$. With accessory lenses, it is possible to read upto $\pm 0.12D$. Also, the auxiliary lenses $\pm 10.00D$ (option) are available to extend adjustment range upto -29.00~ +26.75D.



Adjusting cylinder power and axis

The cylinder lens graduated in 0.25D steps allows adjustment upto 0 ~ -6.00D and with accessory lens -2.00D, it is possible to extend adjustment range upto -8.00D. The cylinder axis can be adjusted upto 0°~ 180° in 5°steps. Each adjustment can be made rapidly with two knobs on the same axis.

Cross cylinder (± 0.25)

The cross cylinder loupe, through a special mechanism synchronised completely with the cylinder lens axis control knob, automatically rotates to a corresponding axis each time you change the cylinder lens axis.



Rotary prism

The readings can be taken accurately upto 20 Δ in 1 Δ scale graduation. Also, the click stop permits the measurement of horizontal and vertical strabismus and heterophoria. Using both right and left prisms makes it possible to take readings upto 40 Δ test eye balance.



Built-in auxiliary lenses

Left

O	Open aperture
OC	Occluder
± 0.50	$\pm 0.50 D$ cross cylinder
6 Δ U	6 prism diopter base Up
PH	Pin hole
+12	+0.12 D auxiliary lens
RL	Red filter
RMH	Red maddox rod, horizontal
RMV	Red maddox rod, vertical
P135°	Polarising filter, axis 135°
P45°	Polarising filter, axis 45°
R	Retinoscopic lens, +2.00 D, for 50 cm

Right

O	Open aperture
OC	Occluder
± 0.50	$\pm 0.50 D$ cross cylinder
10 Δ I	10 prism diopter base In
PH	Pin hole
+12	+0.12 D auxiliary lens
GL	Green filter
WMH	White maddox rod, horizontal
WMV	White maddox rod, vertical
P45°	Polarising filter, axis 45°
P135°	Polarising filter, axis 135°
R	Retinoscopic lens, +2.00 D, for 50 cm



Convergence system

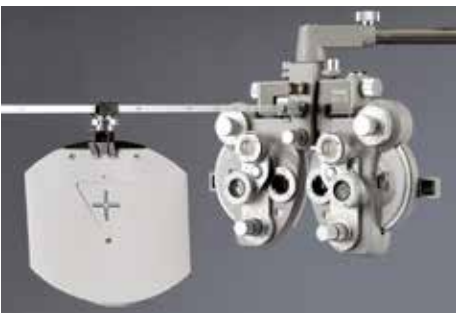
Precision measurement is possible with lens setting to suitable angle for near testing (by closing the convergence lever inward) as well as distance (by opening it outward). This converges the optical system coincident to the convergence of the patient's eyes and the patient can always look through the correct optical centres. Thus, this unique system helps ensure the quality of testing.



Corneal aligning device

Through the sight, align the corneal vertex of the patient and set the patient's cornea in correct position (at 12mm from the view tester lenses).

Measurement should be made at "0" position of the scale.



Near point scale and chart

The scale is graduated in "Inch", "Centimeter" and "Diopter". It can be positioned at any preferred distance for testing. When not in use, it can be stored in standing position. The near point chart contains a rotatable disc with 12 kinds of tests at both sides. The scale is 67cm in length.



Forehead rest

The knob adjusts distance between cornea and lenses, and makes positioning of the patient's forehead very smooth.



Accessory lenses

-0.12C2 pcs / -2.00C 2 pcs
(Option)
+10.00S2 pcs / -10.00S 2 pcs

Specifications

Model name	VT-5 View Tester
Spherical power adjustment	+16.75 D to -19.00 D in 0.25 steps (in 0.125 D steps when +0.12 D auxiliary lenses are in use) +26.75 D to -29.00 D (when optional lenses are in use)
Cylindrical power adjustment	0 to -6.00 D in 0.25 D steps (in 0.125 D steps when -0.12 D auxiliary lenses are in use) 0 to -8.00 D (when auxiliary lenses are in use)
Cross cylinder	±0.25 D (synchronised with the axis of the cylinder lens)
Rotary prism	0 to 20 prism diopters, with minimum 1 Δ steps
Interpupillary adjustment	48-80 mm (right and left synchronised), with minimum 1 mm steps
Forehead-rest adjustment	16 mm
Convergence	∞-400 mm
Dimensions	356 (W) × 110 (D) × 316 (H) mm
Weight	4.75 kg
Accessories	Auxiliary lenses (cylinders : -2.00 D/2 pcs, -0.12 D/2 pcs); A kit of near point vision chart; Sanitary face shield, 1 each right and left; Others

Built-in auxiliary lenses

Right	(O) Open aperture / (OC) Occluder / (±.50) ±0.50 D Cross Cylinder / (6 Δ U) 6 Prism Diopter, Base Up / (PH) Pin Hole / (+.12) +0.12 D Auxiliary Lens / (RL) Red Filter / (RMH) Red Maddox Rod, Horizontal / (RMV) Red Maddox Rod, Vertical / (P135°) Polarising Filter, Axis 135° / (P45°) Polarising Filter, Axis 45° (R) Retinoscopic Lens, +2.00 D, for 50 cm
Left	(O) Open Aperture / (OC) Occluder / (±.50) ±0.50 D Cross Cylinder / (10 Δ I) 10 Prism Diopter, Base In / (PH) Pin Hole / (+.12) +0.12 D Auxiliary Lens / (GL) Green Filter / (WMH) White Maddox Rod, Horizontal / (WMV) White Maddox Rod, Vertical / (P45°) Polarising Filter, Axis 45° / (P135°) Polarising Filter, Axis 135° (R) Retinoscopic Lens, +2.00 D, for 50 cm

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 To ensure safe and correct handling please read the user manual before using.

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