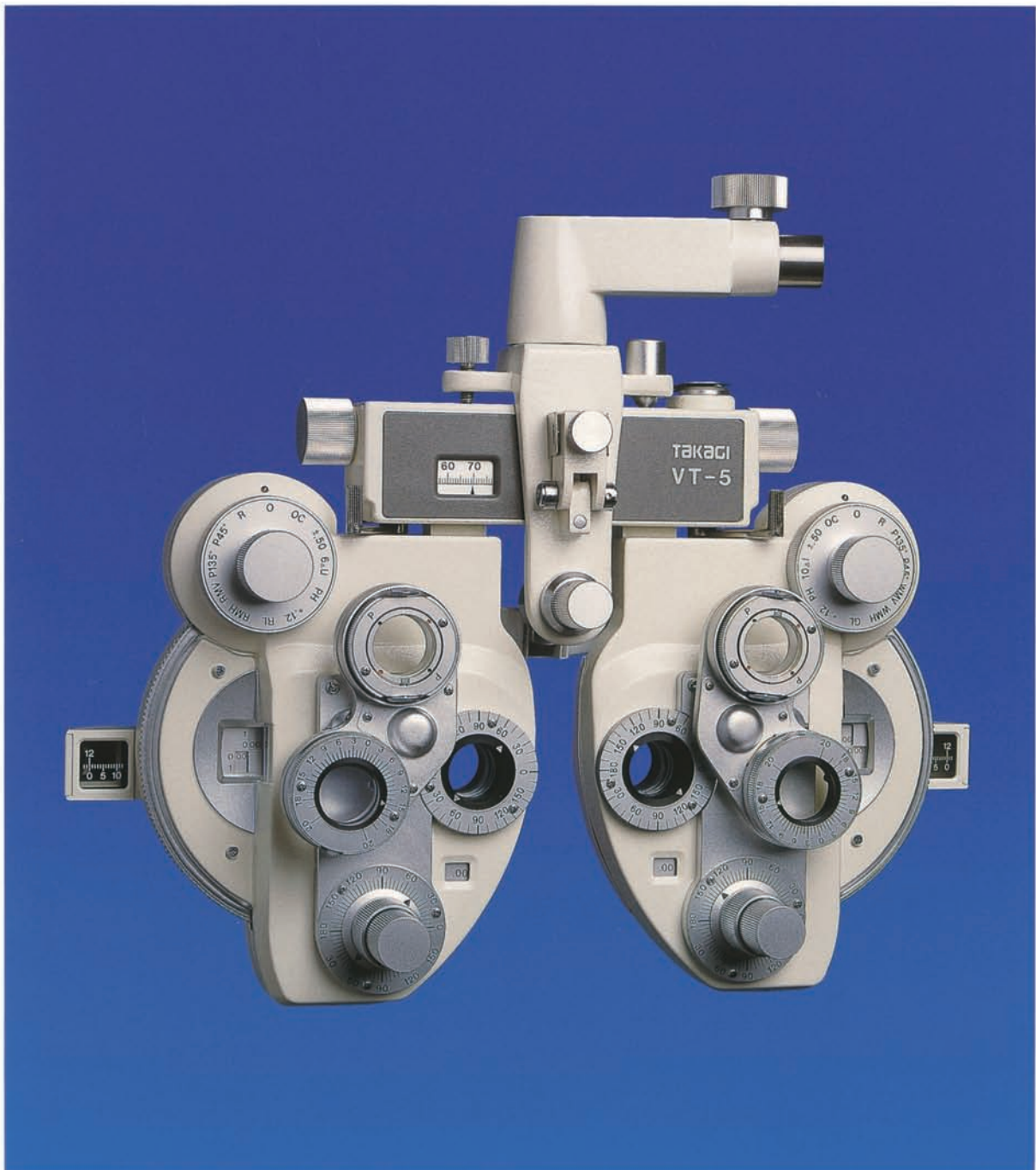




VIEW TESTER

OPHTHALMIC OPTICAL INSTRUMENTS

MODEL VT-5

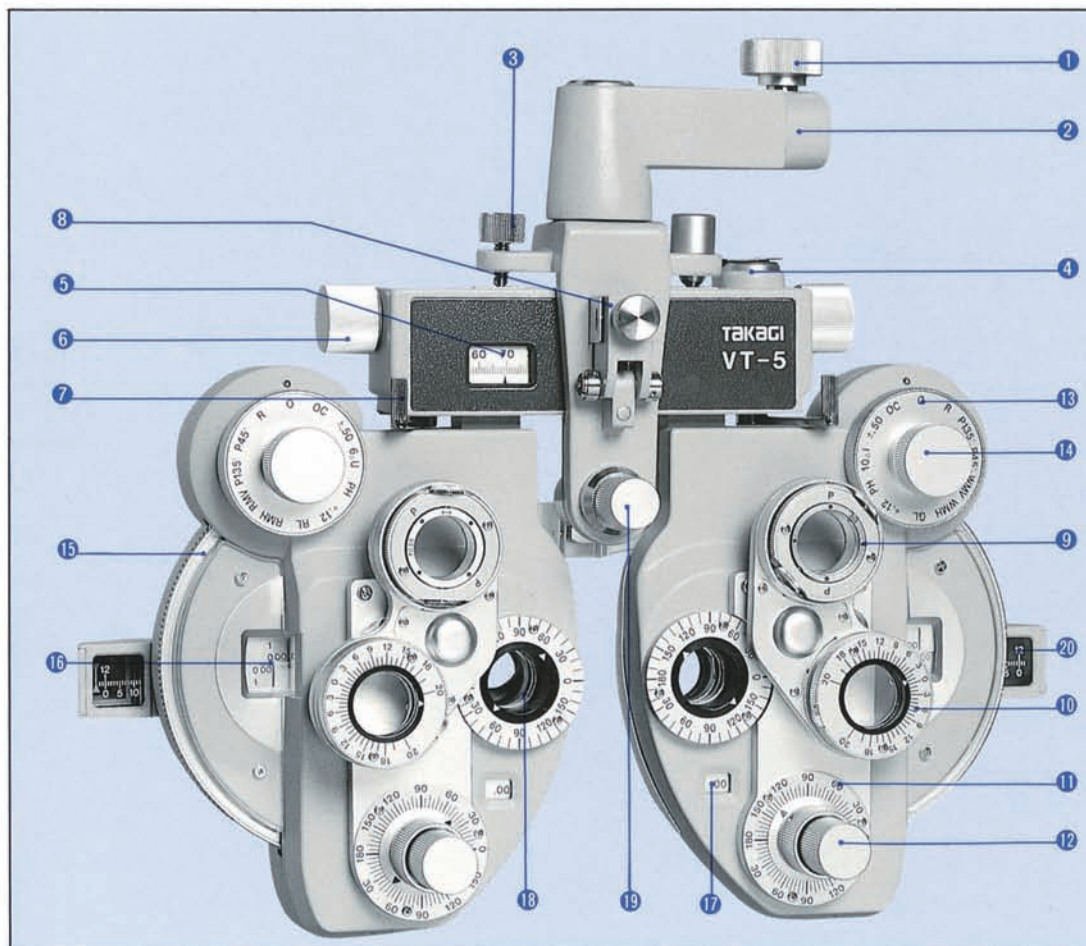


Aiming at new levels in quality

We have drawn on our wide experience and vast amount of technical know-how accumulated in this field to develop a more precise and labor saving tester and its highest performance wins a greatest popularity among many users all over the world as well as in Japan.

OUTSTANDING FEATURES

1. Attractive delicate, beautiful design.
2. The precise function of the instrument means smoother operation in testing for myopia and astigmatism.
3. Cross cylinder and rotary prism provide the widest field of view.
4. Employs an unique mechanism in convergence system.
5. Testing range greatly widened by the big selection of auxiliary lenses provided.
6. Greater precision and durability provided with the oilless bearings.
7. By using together with the chart projector, a wide range of visual function (binocular vision, stereopsis, aniseiconia, and so on) can be examined.
8. High-grade coating executed on all surfaces of lenses.



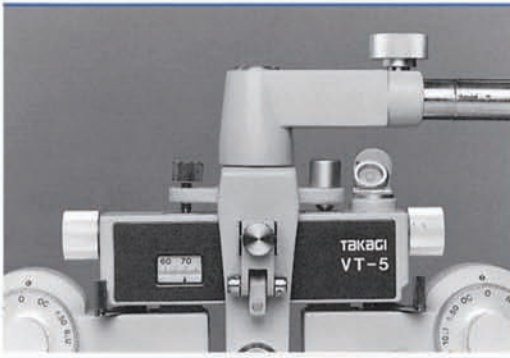
- 1 Clamping knob
- 2 Mounting shaft receiver
- 3 Levelling knob
- 4 Level
- 5 Interpupillary scale
- 6 Interpupillary adjusting knob
- 7 Convergence lever
- 8 Near point scale receiver
- 9 Cross cylinder
- 10 Rotary prism
- 11 Cylinder lens axis control knob
- 12 Cylinder lens power control knob
- 13 Sphere power rapid feed dial
- 14 Auxiliary lens control knob
- 15 Sphere power control ring
- 16 Sphere lens power reading window
- 17 Cylinder lens power reading window
- 18 Accessory lens cell
- 19 Forehead rest adjusting knob
- 20 Corneal aligning device

SPECIFICATIONS

Spherical power adjustment : +16.75D to -19.00D in 0.25D steps (in 0.125D steps when +0.12D auxiliary lenses are in use) +26.75D to -29.00D (when optional lenses are in use)
 Cylindrical power adjustment : 0 to -6.00D in 0.25D steps (in 0.125D steps when -0.12D auxiliary lenses are in use) 0 to -8.00D (when auxiliary lenses are in use)
 Cross cylinder : ±0.25D (synchronized with the axis of the cylinder lens)
 Rotary prism : 0 to 20 prism diopters, with minimum 1△ steps
 Interpupillary adjustment : 48mm to 80mm (right and left synchronized), with minimum 1mm steps
 Forehead-rest adjustment : 16mm
 Convergence : ∞ to 400mm
 Dimensions : 291-323mm wide X 315mm long X 85mm thick (including knobs ; 39mm for instrument only)
 Weight : 5 kgs
 Accessories : Auxiliary lenses (cylinders : -2.00D/2pcs, -0.12D/2pcs) ; 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) ±0.50D Cross Cylinder / (6△U) 6 Prism Diopter, Base Up / (PH) Pin Hole / (+.12) +0.12D Auxiliary Lens / (RL) Red Filter / (RMH) Red Maddox Rod, Horizontal / (RMV) Red Maddox Rod, Vertical / (P135°) Polarizing Filter, Axis 135° / (P45°) Polarizing Filter, Axis 45° / (R) Retinoscopic Lens, +2.00D, for 50cm
 Left : (O) Open Aperture / (OC) Occluder / (±.50) ±0.50D Cross Cylinder / (10△I) 10 Prism Diopter, Base In / (PH) Pin Hole / (+.12) +0.12D Auxiliary Lens / (GL) Green Filter / (WMH) White Maddox Rod, Horizontal / (WMV) White Maddox Rod, Vertical / (P45°) Polarizing Filter, Axis 45° / (P135°) Polarizing Filter, Axis 135° / (R) Retinoscopic lens, +2.00D, for 50cm



1

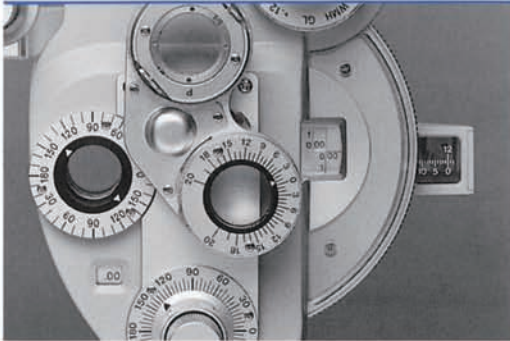
Level adjustment

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

2

Interpupillary adjustment

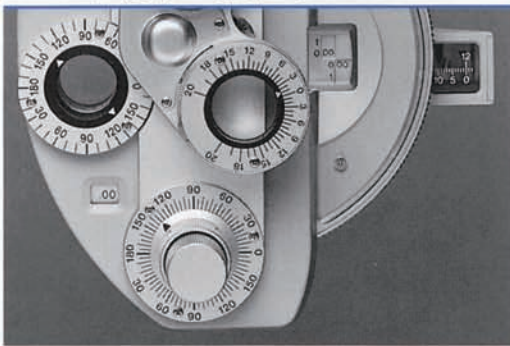
The wide range of adjustment of 48mm through 80mm and easy to read scale in 1mm graduation. Convenient knobs, located on both side, enable smooth and rapid adjustment.



3

Adjusting Sphere Power Readings

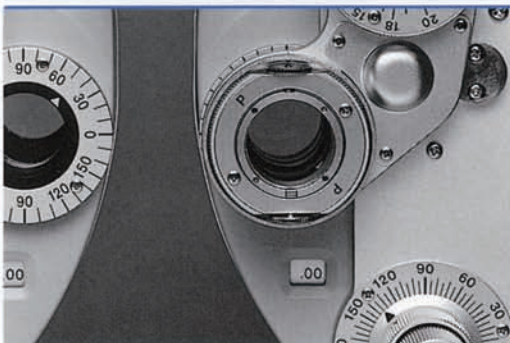
Adjustment can be made exactly from $-19.00D$ to $+16.75D$ in $0.25D$ steps and the sphere power rapid feed dial allows rapid eye examination per $\pm 3.00D$. With accessory lenses, it is possible to read upto $\pm 0.12D$. Also, the auxiliary lenses $\pm 10.00D$ (option) are available to extend adjustment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



4

Adjusting Cylinder Power and Axis

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



5

Cross Cylinder (± 0.25)

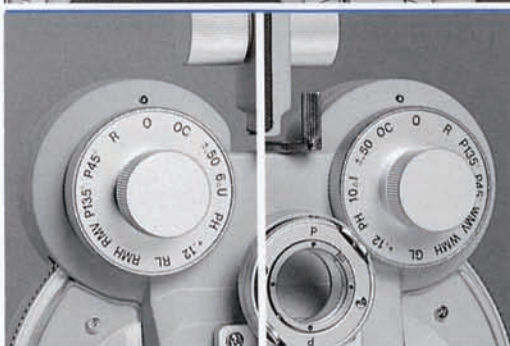
The cross cylinder loupe, through a special mechanism synchronized completely with the cylinder lens axis control knob, automatically rotates to a corresponding axis each time you change the cylinder lens axis.



6

Rotary Prism

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



7

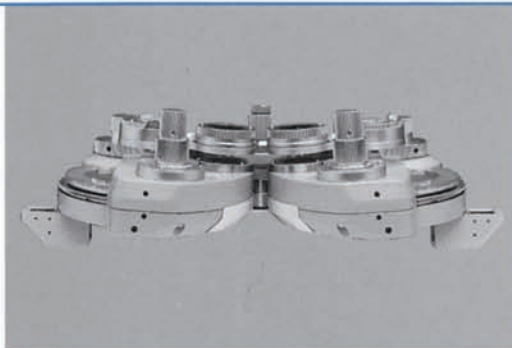
Built-in Auxiliary Lenses

(Right)

O : Open aperture
 OC : Occluder
 $\pm .50$: $\pm 0.50D$ cross cylinder
 $6\Delta U$: 6 prism diopter base up
 PH : Pin hole
 $+ .12$: $+ 0.12D$ auxiliary lens
 RL : Red filter
 RMH : Red maddox rod, horizontal
 RMV : Red maddox rod, vertical
 P135° : Polarizing filter, axis 135°
 R45° : Polarizing filter, axis 45°
 R : Retinoscopic lens, $+2.00D$, for 50cm

(Left)

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



8

Convergence System

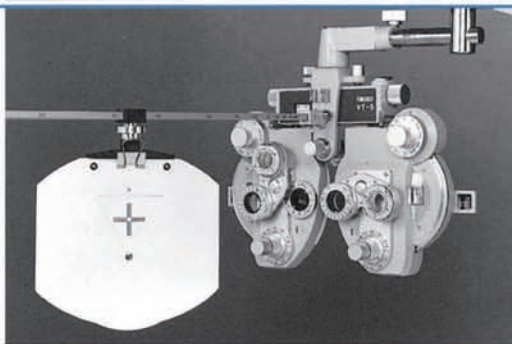
Precision measurement is possible with lens setting to suitable angle for near testing (by closing the convergence lever inward) as well as distance (by opening it outward). This converges the optical system coincident to the convergence of the patient's eyes and the patient can always look through the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



9

Corneal Aligning Device

Through the sight, align the corneal vertex of the patient and set the patient's cornea in correct position (at 12 mm from the view tester lenses). Measurement should be made at "0" position of the scale.



10

Near Point Scale and Chart

The scale is graduated in "Inch", "Centimeter" and "Diopter". It can be set at distance you like for use and 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 side. The scale is 67cm in length.



11

Forehead Rest

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



12

Accessory Lenses

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

●The design and specifications may differ from those in this catalog due to constant improvement of the product.

CE

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