

VT-10

Vision tester



High quality and precision

VT-10

The VT-10 vision tester is the basic phoropter in the Topcon product range. The Topcon VT-10 is a reliable no-nonsense vision tester, which incorporates a wide array of lenses in order to perform all the refractive tests which you need.

Features

- | Wide testing range
- | Synchronized cross cylinders
- | Easy controls & clear scales
- | Simple convergence system
- | Multi-coated optics
- | A wide range of versatile auxiliary lenses
- | Fast, precise result





Wide testing range

The testing range available with the VT-10 is extraordinary, the standard cylinder power range extends to 6,000 in 0.25D increments. In addition, auxiliary lens sets are incorporated to fine-tune cylinder power measurements to 0.12D increments or extend cylinder power range to 8.00D. Accurate prism reading even below 0.5 Δ are possible thanks to the 20 Δ range (1 Δ increments) of the precision-g geared rotary prism loupes. The VT-10 is also available in plus or minus cylinder models.



Synchronized cross cylinders

The most significant time-saving feature of the VT-10 is its synchronization of cross cylinder loupe rotation to cylinder axis adjustment. Special gearing automatically synchronizes the rotation of the loupe each time you change cylinder axis correction. The result? You simply read a single scale, one time, after completing a full series of axis checks. The bi-loupe turrets lets you index power or axis loupes with a single touch.



Easy controls & clear scales

Control of cylinder axis and power testing is amazingly simple; concentric control knobs within a double-calibration axis scale make adjustment a quick, one hand action through the full 360 $^\circ$ range. The axis scale reads in 5 $^\circ$ increments, with 15 $^\circ$ markings. An additional axis is located at the main aperture, for convenient reference during retinoscopy. The low position of the control knobs keeps the operator's hands out of the line of vision.



A wide range of versatile auxiliary lenses

The Topcon VT-10 comes with a full complement of versatile auxiliary lenses - 10 different lenses plus two open apertures, any of which can be indexed into position with one touch speed and convenience. A red lens/green lens shift, for example, is immediately available for binocular vision testing. The auxiliary lens plate has a flat black finish to prevent stray reflections during use.

Specifications

Type	Subjective refraction testing equipment
Item	The value in () is with accessory lens or auxiliary lens attached:
Myopia	0 to -19.00D in 0.25D step (0.12D step)
Hyperopia	0 to +16.75D in 0.25D step (0.12D step)
Astigmatism	0 to -6.00D (-8.00D) in 0.25D step (0.12D step)
Cross cylinder	±0.25D (±0.37D and ±0.50D as option)
Phoria and vergency	20△ to 0 to 20△ by 1△ step Inner 40△ Outer 40△ (50△) Upwards and downwards 40△ (46△)
Near vision test	Main optical axes of both lenses converges by means of a tilt mechanism at 40 cm in front of the eyes at 64 mm P.D. If P.D. for far vision is less than 54 mm, converging operation stops.
Binocular balance test	Rotary prism and polarizing lens methods are available.
P.D.	48 to 75 mm by 1 mm step
Level adjustment	More than 4.5° for right and left banks
Dimensions	335 (at 64 mm P.D. setting) x 97 x 294 mm
Weight	4.5 kg
Content of auxiliary lens dial	
"O/O"	Open aperture
"R"	Retinoscopic lens: +1.50D standard +2.00D option
"P"	Polarizing filter
"WMV/RMV"	Maddox Rod, vertical: white (left) red (right)
"WMH/RMH"	Maddox Rod, horizontal: white (left) red (right)
"GL"	Green lens (left)
"RL"	Red lens (right)
"+12"	+0.12D spherical
"PH"	Pin hole
"10 I"	10 Diopter Prism Base In (left)
"6 U"	6 Diopter Prism Base Up (right)
"±.50"	±0.50D Fixed Cross Cylinder
"OC"	Occluder

Plus and minus cylinder models available, also the choice of color (black or light grey).



Accessories

The holder for rotary near point card mounts to a sturdy rod with a distance scale from 5 to 28 inches – centimeter and diopter scales are included. A hinged bracket moves into position immediately, or raises it out of the way.

IMPORTANT

Subject to change in design and/or specifications without advanced notice. In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation. Medical device Class I. Manufacturer: Topcon Corporation.



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