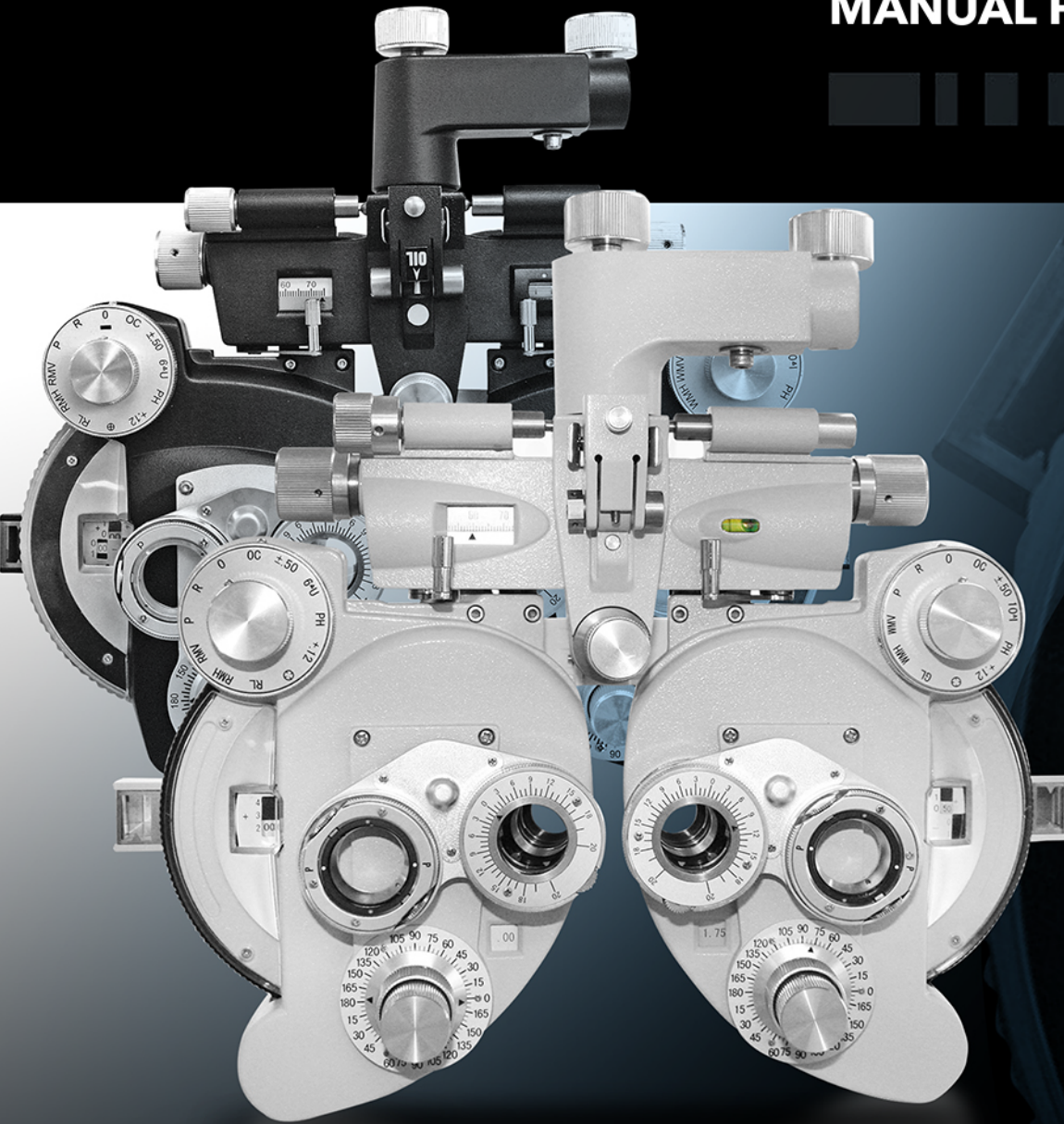


VIEWLIGHT
POWERED BY INNOVATION

VTR 10 & 20

MANUAL PHOROPTER



FDA

FEATURES

Viewlight's manual phoroptors VTR-10 and VTR-20 are designed for subjective refractions determination and optically measures and aligns abnormal binocular vision such as muscle balance of the eyes, binocular balance and stereo acuity.



VTR 10

VTR-10 manual phoropter measures and determines the patients spectacle lens prescription during all eye examinations.

1. Speedy astigmatism tests
2. Measures myopia, presbyopia, heterophoria
3. Sphere power control adjustment
4. Convergence system mechanism
5. Wide range of auxiliary lens combinations
6. Accurate readings on binocular visual balance
7. Precision measurement of spherical power

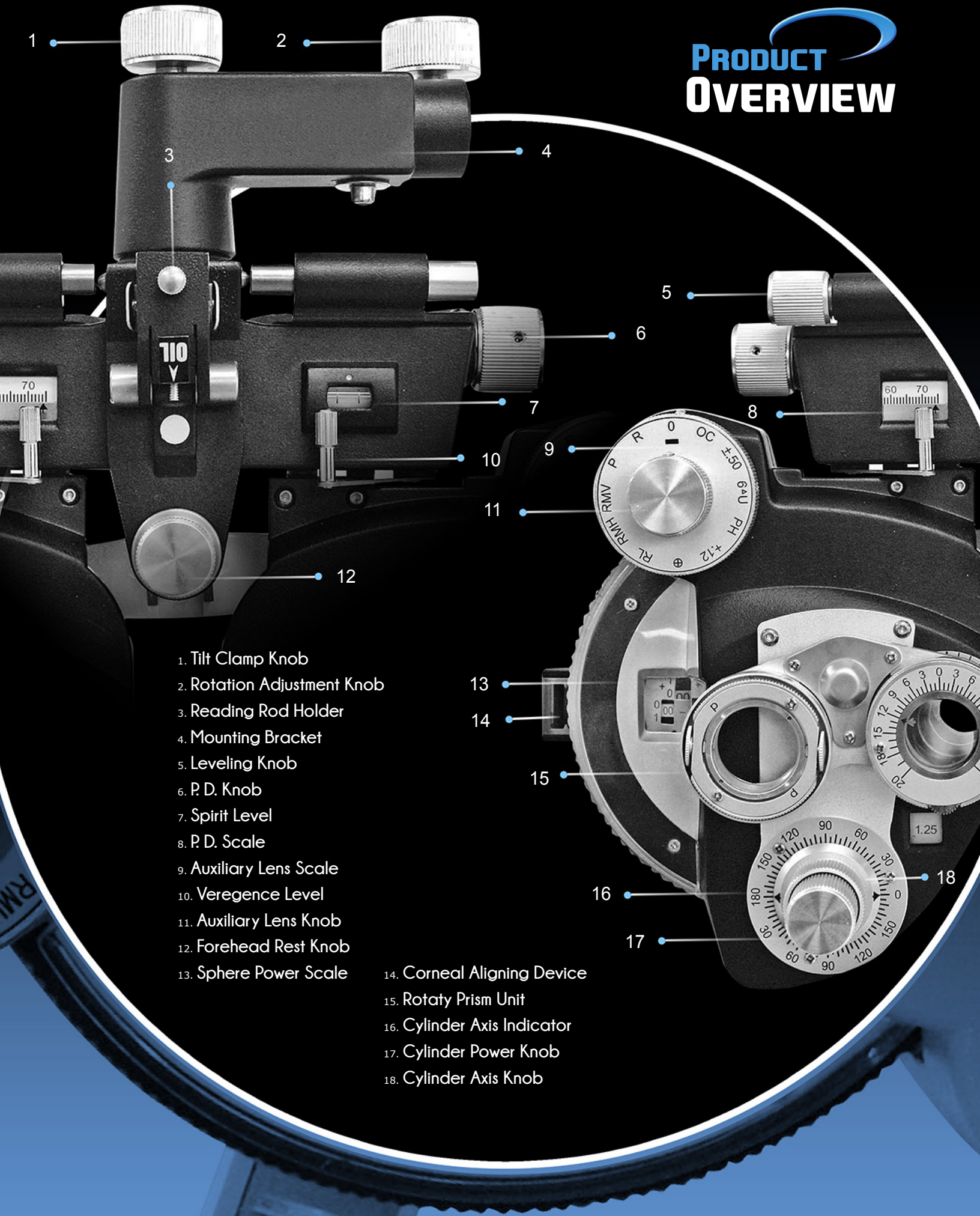
VTR20

Viewlight's VTR-20 features a unique design of butterfly-shape appearance and provides highly accurate readings over a wide range measurements.

1. Speedy astigmatism tests
2. Measures myopia, presbyopia, heterophoria
3. Sphere power control adjustment
4. Rotary prism and visual acuity balance
5. Wide range of auxiliary lens combinations
6. Accurate readings on binocular visual balance
7. Precision measurement of spherical power
8. High quality plated-film used in all optic lenses
9. Precise refining cylinder axis and power



PRODUCT OVERVIEW



- 1. Tilt Clamp Knob
- 2. Rotation Adjustment Knob
- 3. Reading Rod Holder
- 4. Mounting Bracket
- 5. Leveling Knob
- 6. P. D. Knob
- 7. Spirit Level
- 8. P. D. Scale
- 9. Auxiliary Lens Scale
- 10. Vergence Level
- 11. Auxiliary Lens Knob
- 12. Forehead Rest Knob
- 13. Sphere Power Scale

- 14. Corneal Aligning Device
- 15. Rotary Prism Unit
- 16. Cylinder Axis Indicator
- 17. Cylinder Power Knob
- 18. Cylinder Axis Knob

SPECIFICATIONS

VTR 10



Measurements

SPHERE POWERS RANGE	+16.75D to - 19(.25D Steps)
CYLINDER POWERS RANGE	0 to -6.00D with minimum reading 0.25D or 0.12
CROSS CYLINDER	±0.25D, standard (±0.37D, ±0.50D)
ASTIGMATIC AXIS SCALE	0 to 180° in 5°steps
CROSS CYLINDER	±0.25D, reversal type (synchronized with astigmatic axis) ±0.50D optional
ROTARY PRISM	0 to 204 D in 14 D step

Measurements

SPHERE POWERS RANGE	+16.75D to - 19(.25D Steps)
CYLINDER POWERS RANGE	360 degrees (5 degrees)
CROSS CYLINDER	±0.25D, standard (±0.37D, ±0.50D)
ROTATING PRISM	20 prisms each (1 prism scale graduation), Paired - 40 prisms in any base direction
PD ADJUSTMENT	48-75mm (1mm Increments)
VERTEX DISTANCE	13.75mm
SCREEN	3.97 Inch TFT-LCD 800 x 480
AUX DIALS	10 lenses and 2 open apertures

VTR20

