

OM-4

Ophthalmometer



Internal scale readings with extended range



1 Protractor scale

Indicates the axis of astigmatism

2 Adjustable eyepiece

Adjustable from -5 to +5 diopters to correct for operators spherical error

3 Vertical knob

Is revolved to coincide the + and -| marks of the mire images for finding the radius of curvature of the vertical axis

4 Horizontal knob

Is revolved to coincide the | and | marks of the mire images for finding the radius of curvature of the horizontal axis

5 Occluder

Helps to maintain fixation by blocking of non-measured eye

OM-4 Ophthalmometer

A professional instrument for precise objective measurements of the corneal radius and the radius of contact lenses, compactly designed and very easy to use by one hand operation.

Features

| Internal scale reading system

Besides the mire images the millimeter scales for the radius of curvature and the diopter scales for the corneal refractive power, of both vertical and horizontal axes, are viewed at all times in the field of view, this greatly speeds up measurements.

| Measurement of corneal astigmatism

Horizontal displacement of the mire images indicates existence of astigmatism and the axis rotating handle is used to coincide the measuring head with the axis, after which the vertical and horizontal knobs are used to coincide the mire images, showing the great ease and simplicity of one position measurement.

6 Axis rotating handle

Must be turned to locate the axis of astigmatism when there is horizontal displacement of the + and the | mire images

7 Omni directional joystick for unprecedented maneuverability

Easy, one-handed vertical, horizontal and diagonal adjustment improves performance while decreasing fatigue. This is only one of the features that makes the Topcon OM-4 a highly desirable ophthalmoscopic equipment for the busy practitioner

8 Leveling pin

9 Chin rest adjustable knob

Height of chin rest is adjustable for accurate positioning

Internal scale readings with extended range

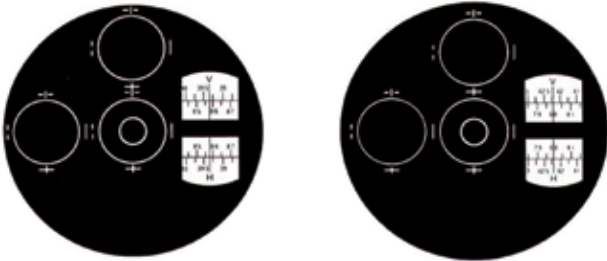


Image 1

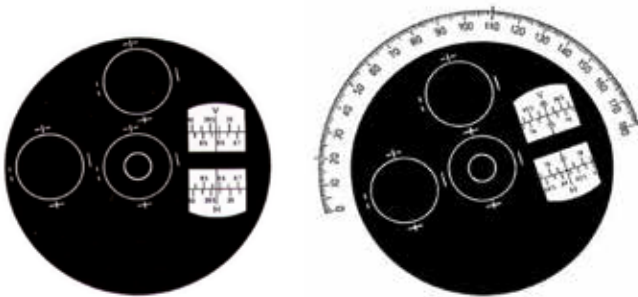
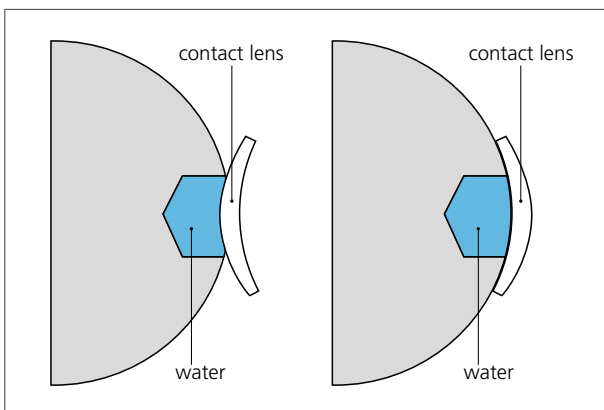


Image 2



The OM-4 features easy to align mire images with:

All readings are placed in one field of view, greatly simplifying and speeding up measurements. (Example: the diagrams on the left show mire images in perfect focus and without astigmatism, with a radius of curvature 8.0 mm and vertex power 42.2 diopter on both vertical (V) and horizontal (H) axes). Extended range of curvature readings possible from 5.5 mm to 12.0 mm. Vertical and horizontal knobs are rotated to eliminate displacements in the + and -| marks (vertical axis) and the | and | marks (horizontal axis) of the mire images, which will give fast readings for both vertical and horizontal axes at one position, when corneal astigmatism is non-existent (see image 1).

Readings when astigmatism is present

Displacement of the + and -| marks in the horizontal plane indicates existence of corneal astigmatism. Rotate the axis rotating handle around this optical axis, to eliminate the displacement. Then eliminate further displacements of the marks with the vertical and horizontal knobs, as shown on the left in non-astigmatic corrections, which will give the readings for corneal astigmatism (see image 2).

Contact lens measurement

Replace the chin rest with the supporting column and place the contact lens holder with the contact lens attached to it on top of the column. It will be possible to measure the radius of curvature of the concave or convex face, depending on which faces the instrument, in the same manner as when measuring the cornea.

One position measurement

One position measurement is not only more accurate, but is truly effective in reducing measuring time and also helps promote patients cooperation.

Specifications

Type	Sutcliff type
Scales	
Corneal radius of curvature	5.5 mm to 12 mm
Minimum reading	0.01 mm
Corneal refractive power	28.00D to 60.00D
Minimum reading	0.125D
Axis of corneal astigmatism	0° to 180°
Minimum reading	1°
Diopter adjusting scale	0D to ± 5D
Power	
Primary	AC 100V, 120V, 220V and 240V, with built-in transformer 50-60 Hz
Power consumption	30 W
Dimensions	560 mm (W) x 580 mm (H) x 460 mm (D)
Weight	16 kg

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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