

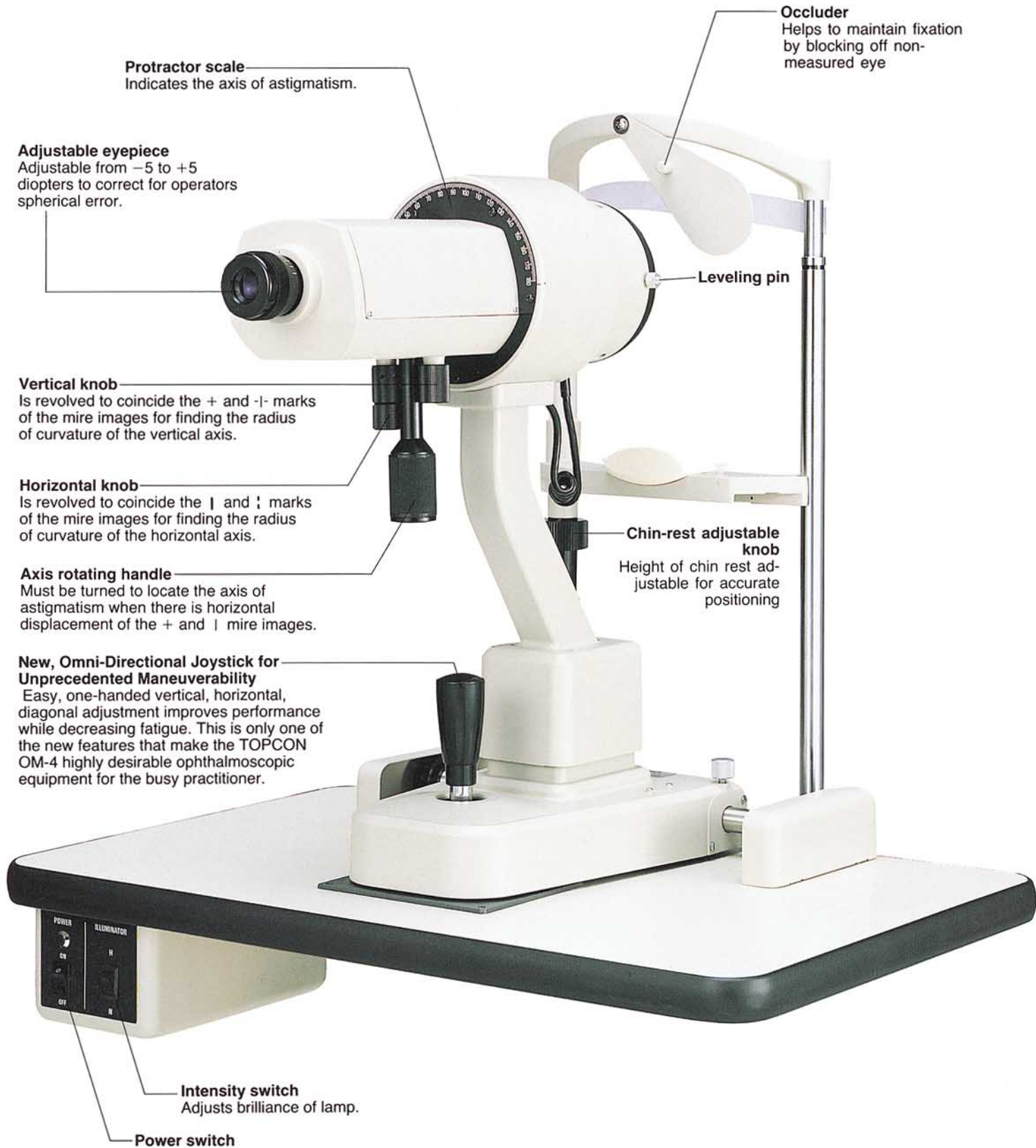
OPHTHALMOMETER
OM-4



OM-4

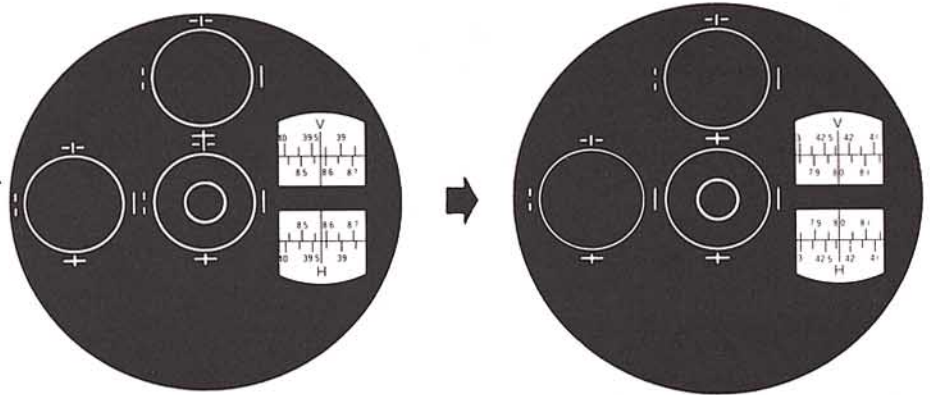
A professional for precise objective measurements of the corneal radius of curvature plus accurate measurements of the radius of curvature of contact lenses

Compactly-designed and very easy to use by one hand operation



Internal Scale Readings with Extended Range

The OM-4 features easy to align mire images with: All readings are thus placed in one field of view, greatly simplifying and speeding up measurements. (Example: The diagrams on the right show mire images in perfect focus and without astigmatism, with 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.

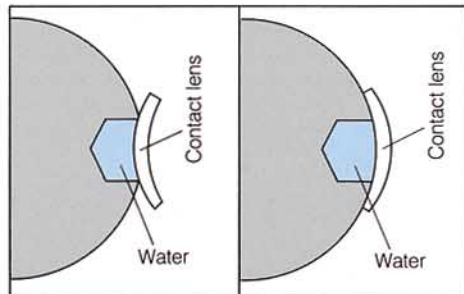
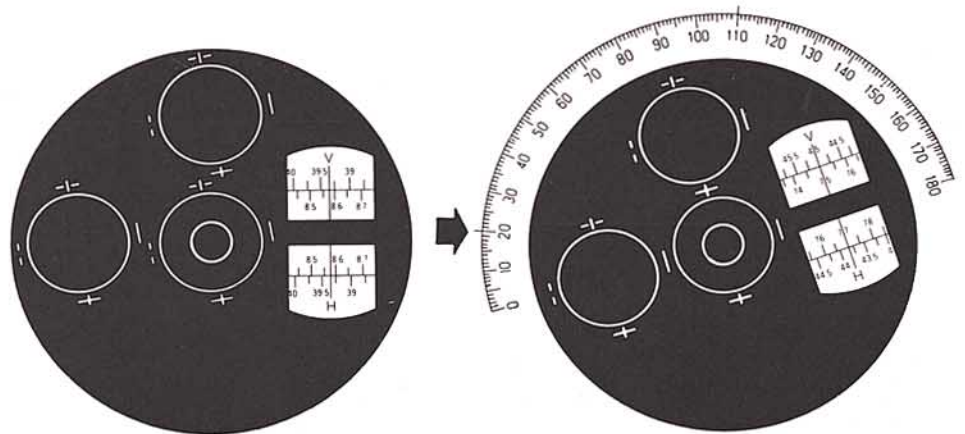


Readings when astigmatism is not present

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 speedy readings for both vertical and horizontal axes at one position, when corneal astigmatism is non-existent.

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.



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 its optical axis, to eliminate the displacement. Then, eliminate further displacements of the marks with the vertical and horizontal knobs, as shown above in non-astigmatic corrections, which will give the readings for corneal astigmatism.



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, thus greatly speeding 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.

* One position measurement is not only more accurate but is truly effective in reducing measuring time and also helps promote patient's cooperation.

Specifications

Type	: Sutcliff type
Scales	
Corneal radius of curvature	: 5.5 to 12 mm
Minimum reading	: 0.01 mm
Corneal refractive power	: 28.00 to 60.00 dptr.
Minimum reading	: 0.125 dptr.
Axis of corneal astigmatism	: 0 to 180°
Minimum reading	: 1°
Diopter adjusting scale	: 0 to ±5 dptr.
Power	
Primary	: AC 100 V, 120 V, 220 V and 240 V, with built-in Transformer 50/60 Hz.
Power consumption	: 30 W
Dimensions	: 560 mm wide×580 mm high×460 mm deep.
Weight	: 16 kgs.

Subject to changes in design and/or specifications, without advance notice.

IMPORTANT

In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



Certificate No.Q18661
TOPCON CORPORATION



Certificate No.EC97J1081
TOPCON CORPORATION



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