



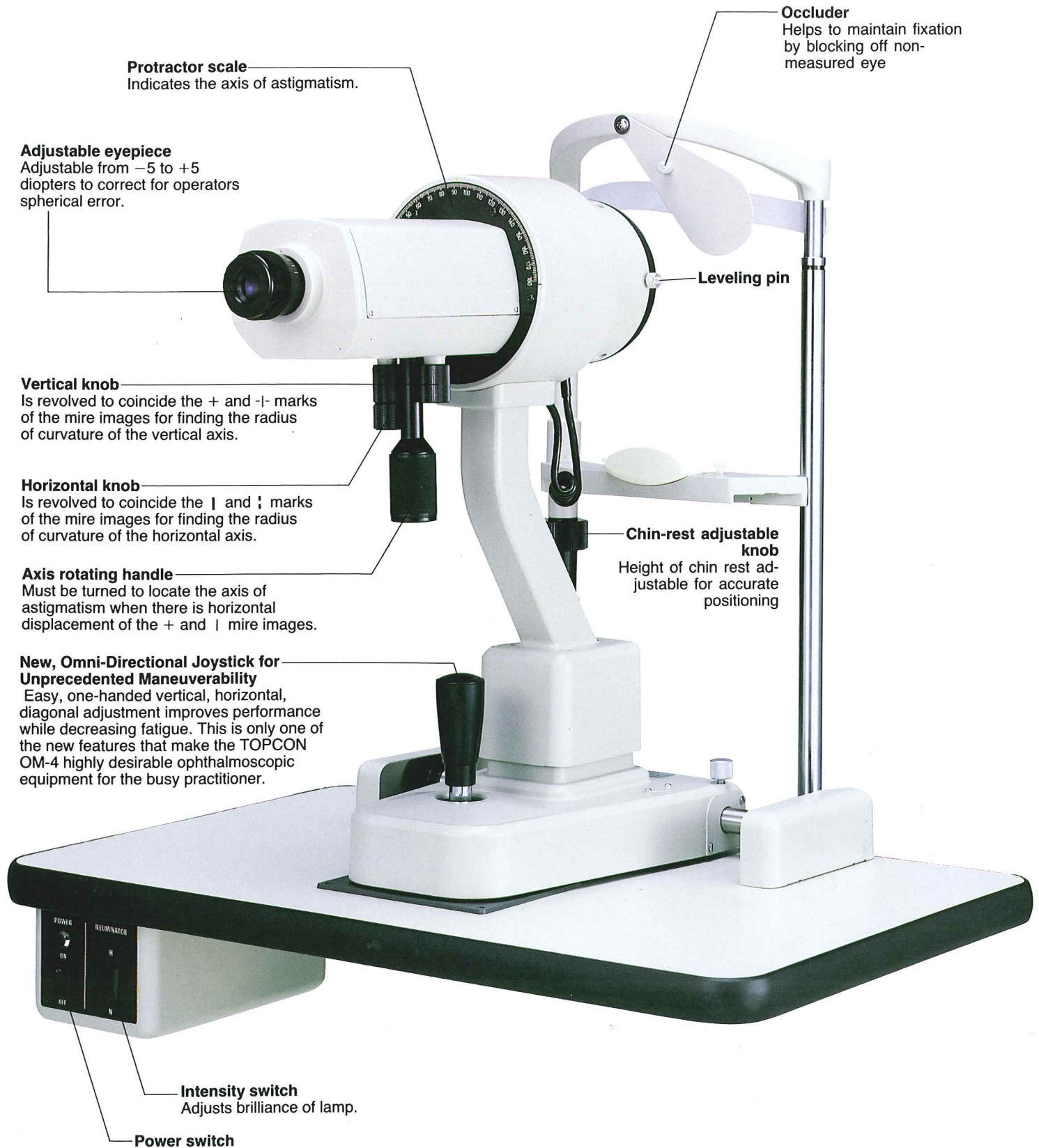
OPHTHALMOMETER
OM-4



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

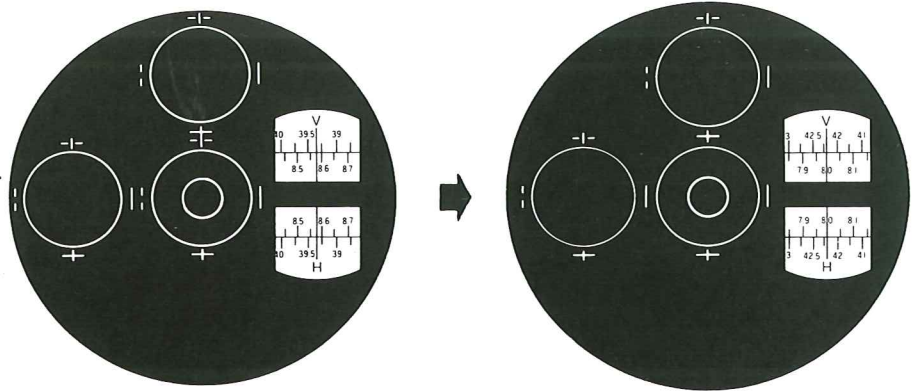
Compactly-designed and very easy to use
by one hand operation



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.

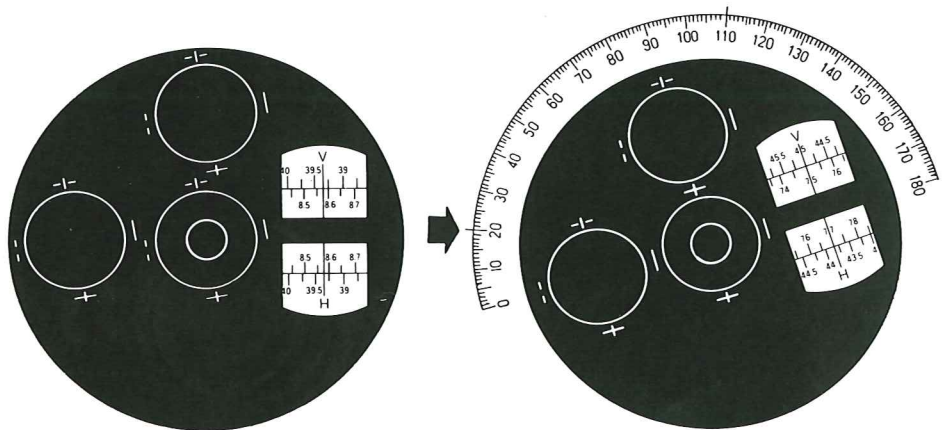


Readings when astigmatism is not present

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.

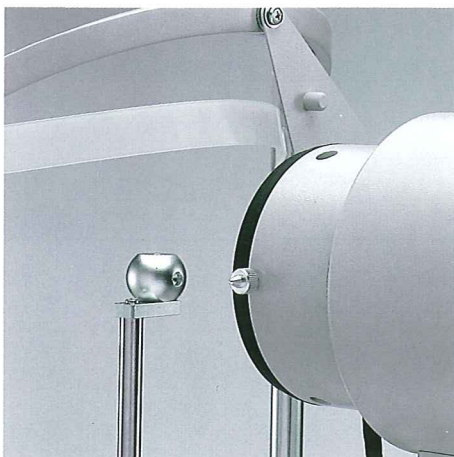
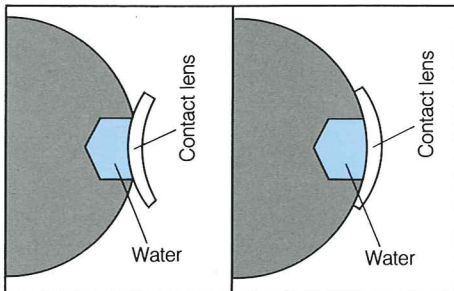
Contact lens measurement

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 \times 580 mm high \times 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.



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TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan. Phone: 3-3558-2523/2522 Fax: 3-3960-4214 www.topcon.co.jp

TOPCON MEDICAL SYSTEMS, INC.

37 West Century Road, Paramus, NJ 07652, U.S.A.
Phone: 201-599-5100 Fax: 201-599-5248 www.topcon.com

TOPCON CANADA INC.

110 Provencher Avenue, Boisbriand QC J7G 1N1, CANADA
Phone: 450-430-7771 Fax: 450-430-6457 www.topcon.ca

TOPCON EUROPE MEDICAL B.V.

Essebaan 11, 2908 LJ Capelle a/d IJssel, THE NETHERLANDS
Phone: 010-4585077 Fax: 010-2844940 www.topconeuropa.com

ITALY OFFICE

Via Delf' Industria n. 60, 20037 Paderno Dugnano, (Milano), ITALY
Phone: 02-61-25-583 Fax: 02-61-25-927 www.topcon.it

DENMARK OFFICE

Praestemarksvej 25, 4000 Roskilde, DENMARK
Phone: 046-32-7500 Fax: 046-32-7555

IRELAND OFFICE

Unit 69 Western Parkway Business Centre,
Lower Ballymount Road, Dublin 12, IRELAND
Phone: 01460-0021 Fax: 01460-0129

TOPCON S.A.R.L.

89, Rue de Paris 92585 Clichy, Cedex, FRANCE
Phone: 01-41069494 Fax: 01-47390251

TOPCON DEUTSCHLAND G.m.b.H.

Gieselerallee 31-33, D-47877 Willich, Germany
Phone: 02154-8850 Fax: 02154-885111 www.topcon.de

TOPCON SCANDINAVIA A.B.

Neogatan 2 S-43151 Molndal, SWEDEN
Phone: 31-7109200 Fax: 31-7109249

TOPCON ESPAÑA S.A.

Frederic Mompou 5, ED. Euro 3, 08960 Sant Just Desvern Barcelona, SPAIN
Phone: 34-93-4734057 Fax: 34-93-4733932 www.topcon.es

TOPCON (GREAT BRITAIN) LTD.

Topcon House, Kennet Side, Bone Lane, Newbury,
Berkshire RG14 5PX United Kingdom
Phone: 01635-551120 Fax: 01635-551170 www.topcon.co.uk

TOPCON POLSKA Sp. z o.o.

Ul. Oswiatowa 77, 42-404 Zawiercie, POLAND
Phone: 326-71-3405 Fax: 326-70-5045

TOPCON SOUTH ASIA PTE.LTD.

Blk 192 Pandan Loop, #07-01 Pantech Industrial Complex, Singapore 128381
Phone: 62780222 Fax: 62733540 www.topcon.com.sg

TOPCON INSTRUMENTS (MALAYSIA) SDN. BHD.

Exella Business Park Block C, 1st Floor, Jalan Ampang Putra,
Taman Ampang Hilir, 55100 Kuala Lumpur, MALAYSIA
Phone: 03-42701192 Fax: 03-42704508

TOPCON INSTRUMENTS (THAILAND) CO.,LTD.

77/162 Sinn Sathorn Tower, 37th Floor, Krungthongburi Road,
Klonglonsai, Klongsarn, Bangkok 10600 THAILAND
Phone: 02-440-1152-7 Fax: 02-440-1158

TOPCON KOREA CORPORATION

2F Yooseoung Bldg., 1595-3, Seocho-Dong, Seocho-Gu, Seoul, 137-876, Korea
Phone: 2-2055-0321-7 Fax: 2-2055-0319 www.topcon.co.kr

TOPCON CORPORATION BEIJING OFFICE

1070 Poly Plaza Building, 14 Dongzhimen
Nandajie, Dongcheng District, Beijing, 100027 CHINA
Phone: 10-6501-4191 Fax: 10-6501-4190

TOPCON CORPORATION SHANGHAI OFFICE

Room 901-903 Lippo Plaza No 222 Huai Hai Zhong Lu Shanghai, 20021 CHINA
Phone: 21-62701877 Fax: 21-53966485

TOPCON CORPORATION BEIRUT OFFICE

P.O. BOX 70-1002 Antelias, BEIRUT-LEBANON
Phone: 961-4-523325/523526 Fax: 961-4-521119

TOPCON CORPORATION DUBAI OFFICE

P.O. BOX 293705 Office C-25 (row C-2),
Dubai Airport Free Zone, Dubai, United Arab Emirates
Phone: 971-4-2995900 Fax: 971-4-2995901

