

TRK-3 OMNIA

Auto Kerato-Refracto Tonometer

Optimise Clinical Workflow and Streamline Patient Care with the TRK-3 OMNIA



 **TOPCON** Healthcare

TRK-3 OMNIA

Easy to use, quick operation, patient friendly and stable measurement



OVERVIEW



4 in 1
Functionality



Fully Automated
Measurement



Touchscreen
Control Panel



Space-saving
Compact Design



Stable Measurement
by Rotary Prism
Technology



Patient Friendly

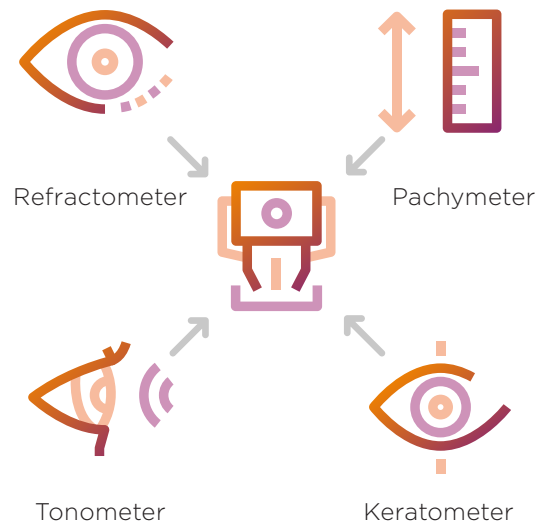


connectivity
Options

TRK-3 OMNIA

Multifunctional 4 in 1

The TRK-3 OMNIA is a multifunctional 4-in-1 device that combines refractometer, keratometer, tonometer and pachymeter into one instrument. With the capability to capture all measurements in a single test is a bonus for your staff and patients and eliminates the need for patients to move between multiple devices.



Easy measurement

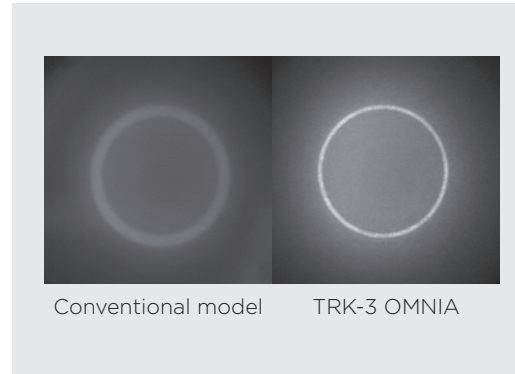
Simply touch the patient's pupil on the control screen to begin automatic measurement. From alignment to mode switching, all measurements can be completed quickly with just one touch, making the process speedy and efficient.



NEW SLD light source

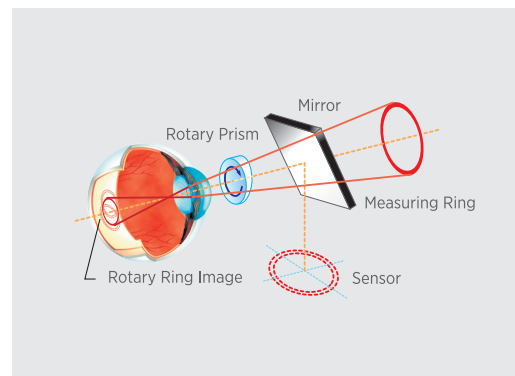
The TRK-3 OMNIA uses a new measurement light source for the refractometer, providing consistent capture success than the conventional model. Clear refraction light can now be obtained even when there is turbidity in the intermediate transmitting body, improving the success rate of measurements.*

*Confirmed with model eyes



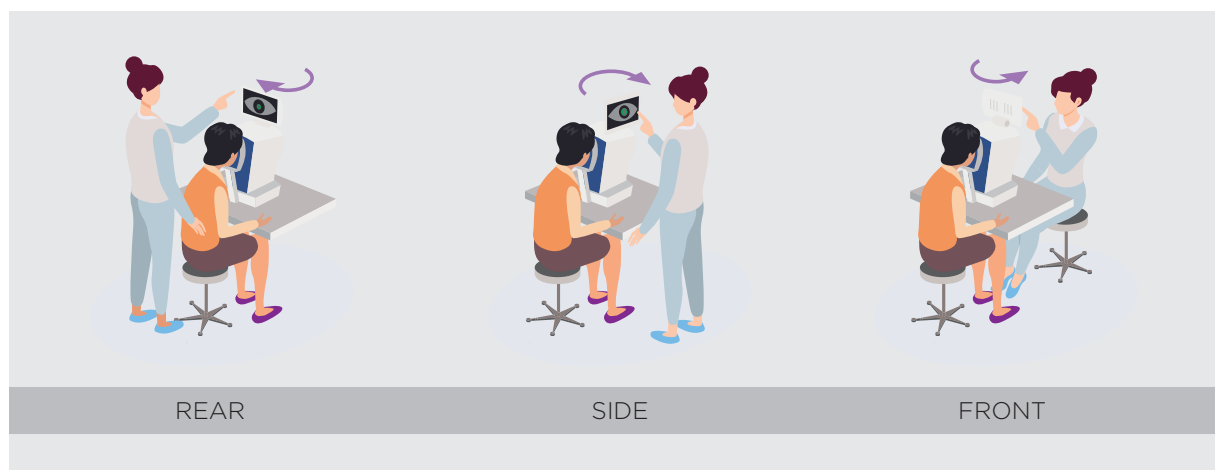
Patented rotary prism measuring system

With Topcon's Rotary Prism Technology, the TRK-3 OMNIA provides stable measurement. The unique, eccentric rotation of the measurement ring is designed to reduce any artifact from the fundus.



Space-saving, flexible layout

As a multifunctional device, It can replace two units (refractometer and tonometer) in the space of one. The control panel can rotate to suit the layout of the examination room, making it easy to install in a variety of configurations. It's designed to meet the needs of patients who require support for eye opening or positioning, allowing measurements to be taken from the side or rear of the patient.



TRK-3 OMNIA

Corneal thickness measurement

There are studies which shows the positive correlation of CCT and IOP^{1,2}. The TRK-3 OMNIA provides the option of IOP values compensated for the central corneal thickness (CCT). The integrated formula for IOP compensation can be customised in settings.

Correction value according to corneal thickness of 545 μ m⁽¹⁾

Corneal Thickness(μ m)	Correction Value
405	7
425	6
445	5
465	4
485	3
505	2
525	1
545	0
565	-1
585	-2
605	-3
625	-4
645	-5
665	-6
685	-7
705	-8

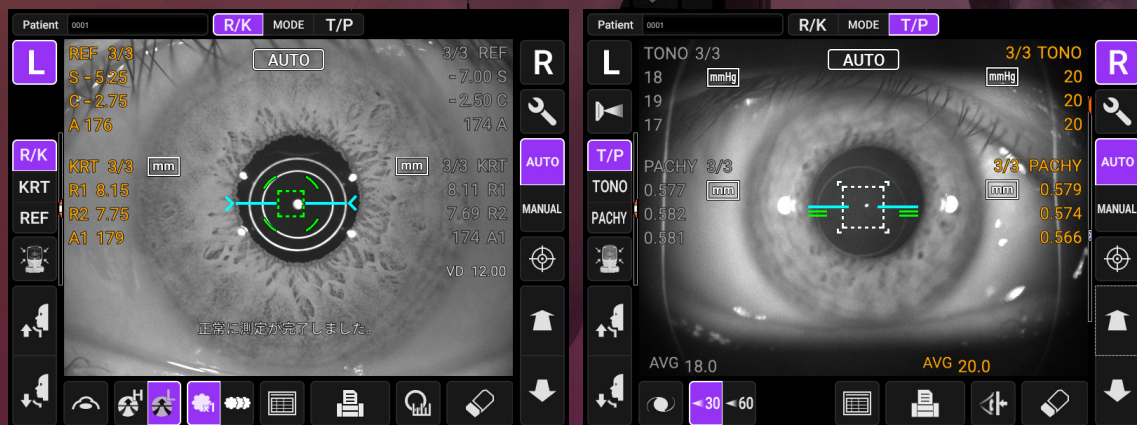
1. L. Herndon, "Rethinking pachymetry and intraocular pressure", Rev. Ophthalmol., 2002, July; Vol.9, 7, pp.88-90

2. S. Suzuki, et al., "Corneal thickness in an ophthalmologically normal Japanese population", Ophthalmology, 2005, Aug; Vol.112, 8, pp.1327-36



MAXIMISE YOUR CLINICAL WORKFLOW

The TRK-3's **large touchscreen panel** supports quick and easy operation. The user interface has been redesigned and optimised to simplify the information provided on the screen, helping to maximise your clinical workflow.



R/K Mode
(REF/KRT measurements)

T/P mode
(TONO/PACHY measurements)

TRK-3 OMNIA

Auto-cut printer

Equipped with an auto-cut printer that makes it easy to remove the printed report.



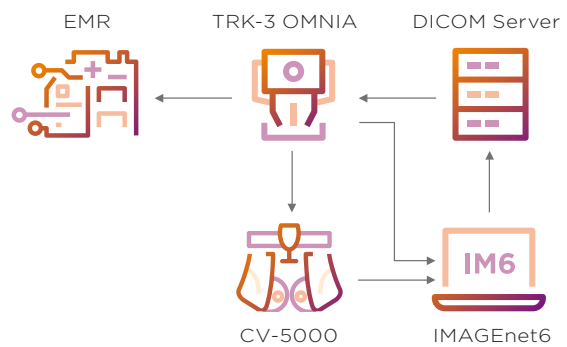
Printed report

The TRK-3 OMNIA prints comprehensive measurement data.

2024_07_18	7:25 AM			
REF. DATA				
VD: 12.00	CYL: (-)			
(R)	S	C	A	
	+ 0.12	- 0.62	72	
	S.E. - 0.25			
(L)	S	C	A	
	+ 0.37	- 1.00	80	
	S.E. - 0.87			
PD:72				
KRT.DATA				
(R)	D	MM	A	
R1	40.75	8.27	3	
R2	41.00	8.22	93	
AVG	40.87	8.25		
	R1-R2: - 0.25			
(L)	D	MM	A	
R1	41.75	8.18	42	
R2	41.87	8.05	132	
AVG	41.50	8.12		
	R1-R2: - 0.62			
TONO.DATA				
	mmHg		AVG.	
R	13	(13)	13	13.0
L	ERR	13	13	13.0
PACH.DATA				
	mm		AVG.	
R	.458	.451	.451	.453
L	.439	.439	.445	.441
TOPCON				

Multiple connectivity options

Examination data measured by the TRK-3 OMNIA can be outputted to CV-5000 and IMAGEnet6 via share folder. By connecting to a DICOM server, it is also possible to receive DICOM worklists, making it compatible with a variety of network environments.



TRK-3 OMNIA Specifications

REF measurement

Measurement range	Spherical refractive power: -25D to +22D (display value resolution: 0.12D or 0.25D) Astigmatic refractive power: 0D to $\pm 10D$ (display value resolution: 0.12D or 0.25D) Direction of astigmatic axis: 0° to 180° (display value resolution: 1° or 5°) (where spherical refractive power + astigmatic refractive power $\leq +22D$, or spherical refractive power + astigmatic refractive power $\geq -25D$) The dioptric powers are indicated with reference wavelength $\lambda_d = 587.56nm$.
Measurable minimum pupil diameter	$\phi 2.0mm$
PD measuring range	20mm to 85mm (display value resolution: 1mm)

KRT measurement

Measuring range	Corneal curvature radius: 5.00mm to 10.00mm (display value resolution: 0.01mm) Corneal refractive power: 67.50D to 33.75D (display value resolution: 0.12D or 0.25D) (where corneal refractive power = 1.3375) Direction of corneal principal meridian: 0° to 180° (display value resolution: 1° or 5°)
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Corneal diameter measurement

Measuring range	2.00mm to 14.00 mm (display value resolution: 0.25mm)
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Intraocular pressure measurement

Measuring range	7mmHg to 60mmHg (display value resolution: 1mmHg) (average value resolution: 1mmHg or 0.1mmHg)
Measuring mode	7mmHg to 30mmHg or 30mmHg to 60mmHg (selectable range)

Corneal thickness measurement

Measuring range	0.400mm to 0.730mm (display value resolution: 0.001mm)
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Other specifications

Electric rating	Source voltage: 100-240V AC Frequency: 50-60Hz Power input: 80VA
Dimensions and weight	Dimensions : 332-422mm (W) x 569-658mm (D) x 504-760mm (H) Weight : 23.2kg

IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation. Not all products, services, or offers are available in all markets. Contact your local distributor for country-specific information and availability.



TOPCON HEALTHCARE SOLUTIONS EMEA OY
 Saaristonkatu 9, 90100 Oulu, FINLAND
 Phone: +358-20-734-8190
 E-mail: thsemea.sales@topcon.com
 www.topconhealthcare.eu

TOPCON SCANDINAVIA
 Neongatan 2, P.O.Box 25, 43151 Mölndal SWEDEN
 Phone: +46-(0)31-7109200
 Fax: +46-(0)31-7109249
 E-mail: info.hcs.se@topcon.com
 www.topconhealthcare.eu/sv_SE

TOPCON FRANCE MEDICAL
 1 rue des Vergers, Parc Swen, Bâtiment 2, 69760 Limonest, FRANCE
 Phone: +33-(0)4-37 58 19 40
 Fax: +33-(0)4-72 23 86 60
 E-mail: topconfrance@topcon.com
 www.topconhealthcare.eu/fr_FR

TOPCON GREAT BRITAIN MEDICAL
 Topcon House, Kennet Side, Bone Lane, Newbury, Berkshire RG14 5PX UNITED KINGDOM
 Phone: +44-(0)1635-551120
 Fax: +44-(0)1635-551170
 E-mail: medical.tgbm@topcon.com
 www.topconhealthcare.eu/en_UK

TOPCON EUROPE MEDICAL B.V.
 Essebaan 11, 2908 LJ Capelle a/d IJssel P.O. Box 145, 2900 AC Capelle a/d IJssel THE NETHERLANDS
 Phone: +31-(0)10-4585077
 Fax: +31-(0)10-4585045
 E-mail: medical@topcon.com
 www.topconhealthcare.eu

TOPCON ESPAÑA
 Oficina Principal en España
 Frederic Mompou, 4, 08960 Sant Just Desvern, Barcelona, SPAIN
 Phone: +34-93-4734057
 Fax: +34-93-4733932
 E-mail: medica@topcon.com
 www.topconhealthcare.eu/es_ES

TOPCON DEUTSCHLAND MEDICAL
 Hanns-Martin-Schleyer Strasse 41, D-47877 Willich, GERMANY
 Phone: (+49)2154-885-0
 Fax: (+49)2154-885-177
 E-mail: info@topcon-medical.de
 www.topconhealthcare.eu/de_DE

TOPCON IRELAND MEDICAL
 Unit 292, Block G, Blanchardstown, Corporate Park 2 Ballycoolin Dublin 15, D15 DX58, IRELAND
 Phone: +353-12233280
 E-mail: medical.ie@topcon.com
 www.topconhealthcare.eu/en_IE

TOPCON DANMARK
 Praestemarksvej 25, 4000 Roskilde DANMARK
 Phone: +45-46-327500
 Fax: +45-46-327555
 E-mail: info.todk@topcon.com
 www.topconhealthcare.eu/dk_DK

TOPCON ITALY
 Viale dell' Industria 60, 20037 Paderno Dugnano, (MI) ITALY
 Phone: +39-02-9186671
 Fax: +39-02-91081091
 E-mail: info@topcon.com
 www.topconhealthcare.eu/it_IT

TOPCON POLSKA SP. Z. O. O.
 ul. Warszawska 23, 42-470 Siewierz POLAND
 Phone: +48-(0)32-670-50-45
 Fax: +48-(0)32-671-34-05
 E-mail: info.tpl@topcon.com
 www.topconhealthcare.eu/pl_PL



TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, JAPAN.
 Phone: +81-(0)3-3558-2522/2502
 Fax: +81-(0)3-3965-6898
 www.topconhealthcare.jp

