

Computerized Tonometer CT-1 / CT-1P



The Next Generation of Tonometry

Topcon, with its wealth of experience in designing and manufacturing high-performance non-contact tonometers since 1987, is proud to introduce the CT-1/1P* non-contact tonometer. The CT-1/1P is more stylish and more compact than ever before. The flexible control panel enables the CT-1/1P to be installed in many different positions in the examination room. The CT-1/1P provides an innovative operation experience and eliminates the need for a control lever. By combining it with the Topcon Kerato-Refractometer KR-1, built with the same concept, you will save space in your examination room. The air-puff mechanism ensures a soft air-puff and requires less maintenance and cleaning. The CT-1/1P is an innovative and high quality non-contact tonometer.

Features

» Simple and Quick Operation

- R/L fully automated measurement
- Easy-to-Use Touch Screen Control Panel eliminates the need for control lever
- Additional Measurement Mode

» Flexible and Space Saving Layout

- The adjustable control panel can be positioned in any direction
- Compact Body

» Reliable Measurements

- New ergonomic optical head and headrest design
- Stable IOP measurement with soft Air-Puff
- Corneal thickness measurement for IOP compensation (CT-1P only)

Functionality & Aesthetics Combined
in the **NEW CT-1/CT-1P**



Bring Innovation to the Examination: CT-1/CT-1P

The CT-1/1P takes automated operation to a new level. Simply touch the center of the pupil on the touch screen control panel and the CT-1/1P automatically obtains right and left eye information immediately. The CT-1/1P provides an innovative operation experience and eliminates the need for a control lever.

Simple and Quick Operation

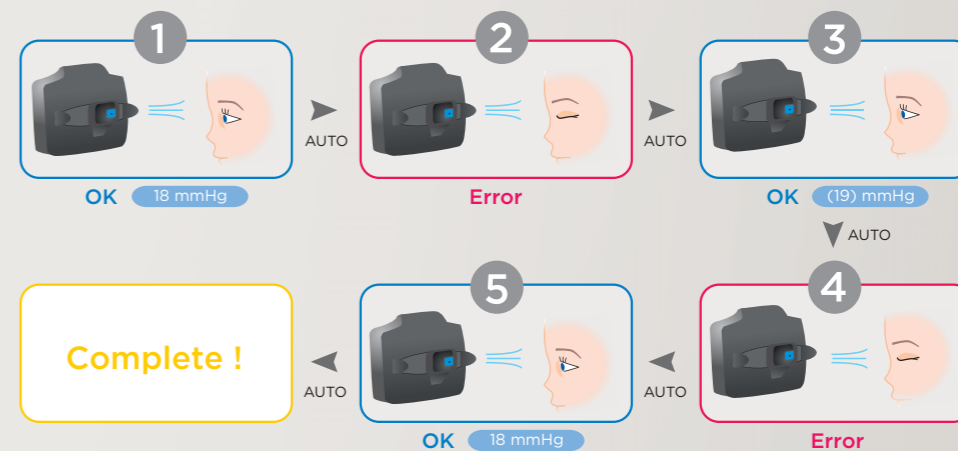
R / L fully automated measurement




Additional Measurement Mode

The additional measurement mode will save time and prevent extra work & inconvenience. The CT-1/1P will continue to measure until the required preset IOP measurement count is obtained.

Ex.) In this case, the preset count is 3 times.



Manual Mode

If required, the CT-1/1P can be set in a manual mode as well. Once the CT detects the pupil position, the movement will retain automated alignment and you simply press the Start button  to begin the measurement.

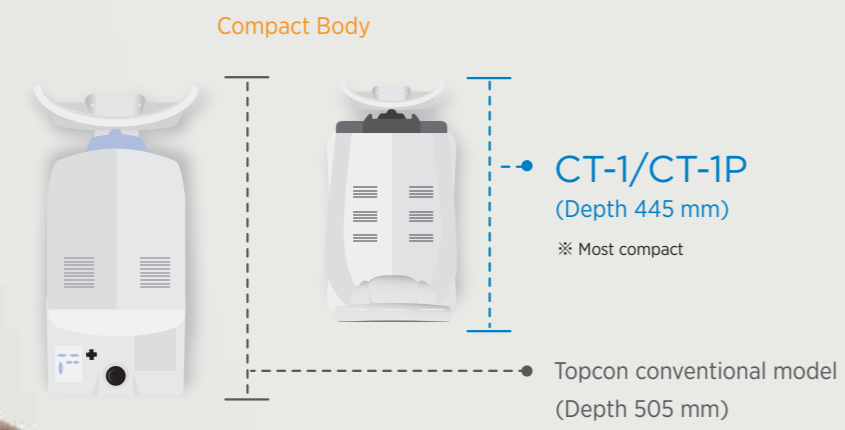
Easy-to-Use Color Touch screen Control Panel

All operating procedures can be performed with the touch screen control panel. The sophisticated buttons provide an intuitive operator experience. The CT-1/1P automatically takes measurement of the right and left eyes quickly and easily.



Flexible Layout and Space Saving Layout

The adjustable control panel allows the operator to position him or herself anywhere around a patient since the control panel can be faced in a number of directions. In addition, the compact body enables the operator to support the patient easily from many different positions during the measurement even when the patient's eyelid needs to be opened. These unique features will contribute to a space saving and flexible layout in your eye examination room, especially if combined with the Topcon KR-1 Auto Kerato-Refractometer.



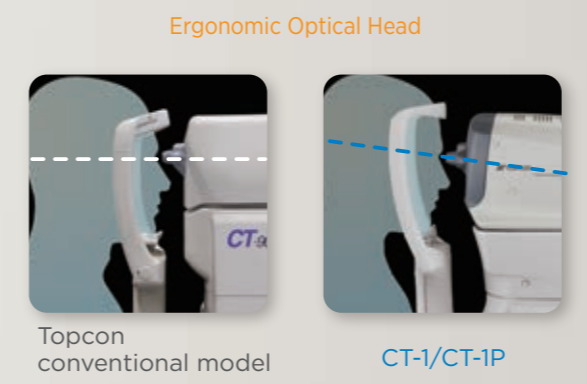
When the KR-1 and CT-1/1P are positioned at 90 degrees, an operator and a patient have to turn just 90 degrees to complete both measurements.

Soft Air Puff

The soft air puff used for measurement leads to less stress and more comfort for a patient and better compliance during the measurement procedure. The improved software controls the amount of air required for each individual eye.

New Compact Ergonomic Design

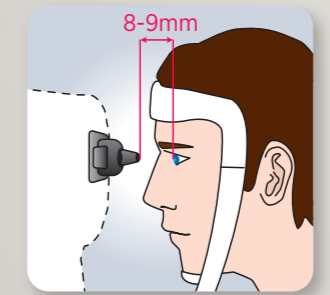
The CT-1/1P's new ergonomic design provides a more comfortable position for the patient with an inclined optical head (5°) and a new headrest design.



An operator just moves a few steps from the KR-1 to CT-1/1P while a patient just turns 180 degrees.

Safety Functions

The CT-1/1P incorporates new safety functions which have been designed in a fully automated style. The instrument features an innovative safety function to keep the preset distance (ex.8-9mm) manually between the cornea and the nozzle, in addition to the "TOO CLOSE" notification on the screen and a buzzer alert if the cornea and the instrument are too close.



The safety distance can be manually adjusted very quickly and easily. Each patient and each eye needs to be adjusted before measurement.

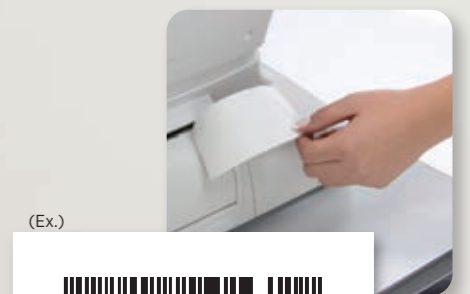
Reduced Nozzle Maintenance

The nozzle design of the CT-1/1P helps to prevent dust and debris from entering the chamber. This significantly reduces the need for cleaning and maintenance.



Built in Printer

The CT-1/1P is equipped with a built-in thermal printer that can be easily loaded with a roll of paper. The CT-1/1P cuts the paper automatically at the end of printing.



(Ex.)

-CT 010017-

OID: JOHN SMITH **1**

NAME

2012_01_01 AM 11:00
NO-Patient ID 01
SN:0000001

2 TONO. DATA

< R > mmHg	ADJ.	< L > mmHg	ADJ.
12	12	12	12
13	13	10	10
13	13	11	11
AVG			
12.5	12.5	11.0	11.0

3 PACH.DATA

< R > mmHg	ADJ.	< L > hPa	ADJ.
16	16	16	16
17	17	13	13
17	17	14	14
AVG			
16.5	16.5	14.3	14.3

4

< R > mm	< L > mm
0.511	0.510
0.510	0.509
0.510	0.508
AVG	
0.510	0.509

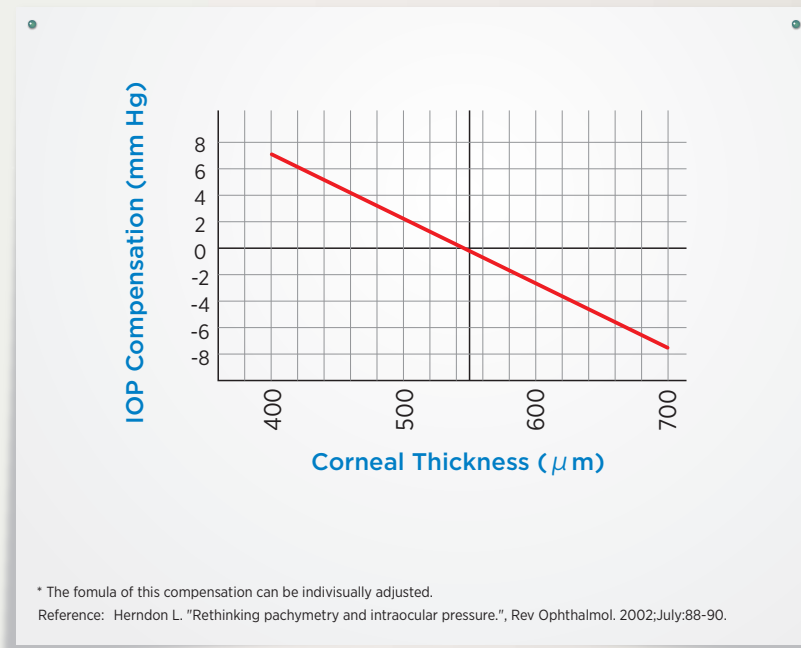
5

TOPCON Clinic **6**

- 1** Operator ID
- 2** Measured value of intraocular pressure
- 3** Measured value of central corneal thickness
- 4** Measured value displayed in "mmHg" units
- 5** Measured value displayed in "hPa" units
- 6** Message column

Corneal Thickness Measurements (CT-IP only)

The CT-IP provides compensated IOP values with central corneal thickness (CCT). Studies show that the CCT could affect IOP measurements, for example IOP values measured using a conventional tonometer are higher in eyes with a thicker cornea, and the diagnosis of normal tension glaucoma can also be affected by thin CCT.



When the KR-1 and CT-1 are positioned face to face...

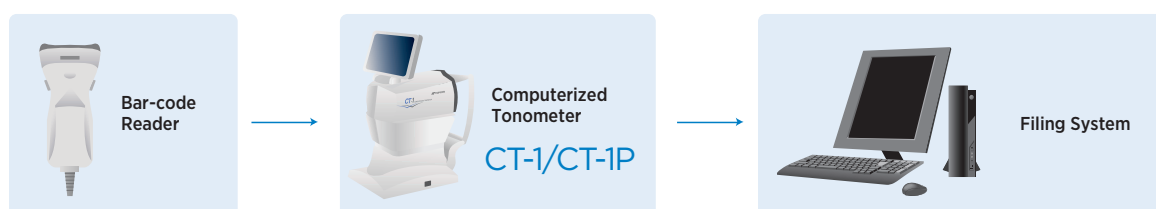


Specifications

Ocular Pressure Measurement Measuring Range	1 to 30 mmHg / 1 to 60 mmHg (1 mmHg step) Average Indication: 1mmHg/0.1mmHg steps changeable
Corneal Thickness Measurement Measuring Range *	0.4 to 0.75 mm (0.001 mm step)
Monitor	8.5" WVGA color LCD monitor, touch panel
Data Transport Terminal	USB (Import), RS232C (Export), LAN (Export)
Dimensions	286 ~ 326 (W) x 445 ~ 526 (D) x 466 ~ 615 (H) mm
Weight	19.5 kg
Power Supply	100-240V AC, 50-60Hz, 75VA

* CT-1P only

System Chart



* Contact Topcon subsidiaries or dealers for system configurations.



*Subject to change in design and/or specifications without advanced notice.

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



TOPCON CORPORATION



TOPCON CORPORATION



TOPCON CORPORATION



TOPCON CORPORATION

CONNECTING VISIONS

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan. Phone:3-3558-2523/2522 Fax:3-3965-6898 www.topcon.co.jp

TOPCON MEDICAL SYSTEMS, INC.

111 Bauer Drive, Oakland, NJ 07436, U.S.A.
Phone:+1-201-599-5100 Fax:+1-201-599-5250 www.topconmedical.com

TOPCON CANADA INC.

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

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.nl; www.topcon.eu

ITALY OFFICE

Viale dell'Industria 60, 20037 Paderno Dugnano, (Milano), ITALY
Phone:+39-02-9186871 Fax:+39-02-91081091 E-mail: topconitaly@tiscalit.it; www.topcon.it

DANMARK OFFICE

Fraestemarksvej 25, 4000 Roskilde, DANMARK
Phone:+45-46-327500 Fax:+45-46-327555
E-mail: topcon@topcondanmark.dk www.topcondanmark.dk

IRELAND OFFICE

Unit 276, Blanchardstown, Corporate Park 2 Ballycoolin Dublin 15, IRELAND
Phone:+353-18975900 Fax:+353-18293915 E-mail: medical@topcon.ie; www.topcon.ie

TOPCON S.A.R.L.

89, rue de Paris 92585 Clichy, FRANCE
Phone:+33-(0)1-41069494 Fax:+33-(0)1-47390251 E-mail:topcon@topcon.fr; www.topcon.fr

TOPCON DEUTSCHLAND G.m.b.H.

Hanns-Martin-Schleyer Strasse 41; D-47877 Willich, GERMANY
Phone:+49-(0)2154-8850 Fax:+49-(0)2154-885177 E-mail:med@topcon.de; www.topcon.de

TOPCON SCANDINAVIA A.B.

Neogatan 2, P.O.Box 25; 43151 Mölndal, SWEDEN
Phone:+46-(0)31-7109200 Fax:+46-(0)31-7109249 E-mail:medical@topcon.se; www.topcon.se

TOPCON ESPAÑA S.A.

HEAD OFFICE
Frederic Mompou 4 Esc. A Bajos 3, 08960 Sant Just Desvern Barcelona, SPAIN
Phone:+34-93-4734057 Fax:+34-93-4733932 E-mail: medica@topcon.es; www.topcon.es

PORTUGAL OFFICE

Rua da Forte,6-6A,L-0-22,2790-072 Carnaxide,PORTUGAL
Phone:+351-210-994626 Fax:+351-210-938786 www.topcon.pt

TOPCON (GREAT BRITAIN) LTD.

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@topcon.co.uk; www.topcon.co.uk

TOPCON POLSKA Sp. z o. o.

ul. Warszawska 23; 42-470 Siewierz, POLAND
Phone:+48-(0)32-6705045 Fax:+48-(0)32-6713405 www.topcon-polska.pl

TOPCON SINGAPORE MEDICAL PTE. LTD.

60 Alexandra Terrace, #06-27 The Comtech, Singapore 118502
Phone:+65-68720606 Fax:+65-67736150 E-mail:medical_sales@topcon.com.sg www.topcon.com.sg

TOPCON INSTRUMENTS (MALAYSIA) SDN.BHD.

No. D1, (Ground Floor), Jalan Excella 2, Off Jalan Ampang Putra,
Taman Ampang Hilir, 55100 Kuala Lumpur, MALAYSIA
Phone:+60-(0)3-42709866 Fax:+60-(0)3-42709866

TOPCON INSTRUMENTS (THAILAND) CO.,LTD.

77/162 Sinsathorn Tower, 37th Floor, Krungthornburi Rd., Klongjomsai,
Klongsam, Bangkok 10600, THAILAND
Phone:+66(0)2-440-1152-7 Fax:+66-(0)2-440-1158

TOPCON CORPORATION BEIJING OFFICE

Block No.9, Kangding Street Beijing Economic-Technological Development Area,
Beijing, 100176, CHINA
Phone:+86-(0)10-6780-2799 Fax:+86-(0)10-6780-2790

TOPCON CORPORATION SHANGHAI OFFICE

14L Huamin Empire Plaza, No.726, Yan-an Xi Road,
Shanghai, 200050, CHINA
Phone:+86-(0)21-5238-7722 Fax:+86-(0)21-5237-0761

TOPCON CORPORATION BEIRUT OFFICE

P.O.Box 70-1002 Antelias Beirut, LEBANON
Phone:+961-4-523525/523526 Fax:+961-4-521119

TOPCON CORPORATION DUBAI OFFICE

P.O.Box 293705, Dubai Airport Free Zone L.L.U. J-12, Dubai, U.A.E
Phone:+971-4-299-5900 Fax:+971-4-299-5901