

# CT-1P

Computerized Tonometer



# Function & aesthetics combined in the CT-1P

## The next generation of tonometry

The CT-1P is more stylish and more compact than ever before. The flexible control panel enables the CT-1P to be installed in many different positions in the examination room. The CT-1P provides an innovative operation experience and eliminates the need for a control lever. By combining it with the Topcon Kerato-Refractometer CT-1P 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-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





# Unique features of the CT-1P



## CT-1P Fully automated with touch screen

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



Fully automated! Just touch the center of the pupil

Start



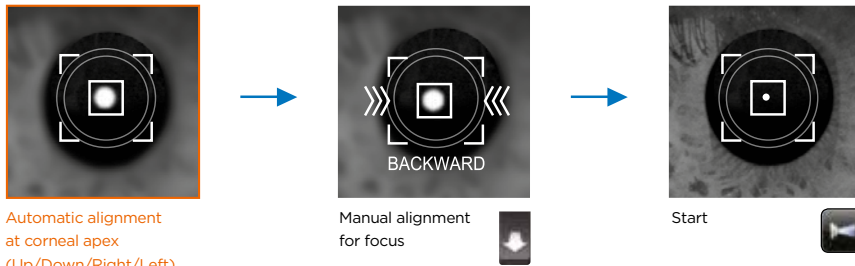
Right eye Automatic R > L Movement Left eye Data printout



# CT-1P features

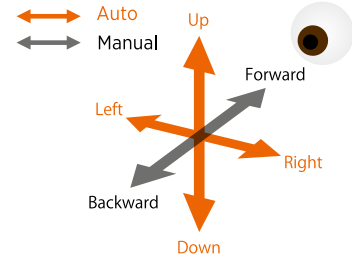
## Additional measurement mode

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

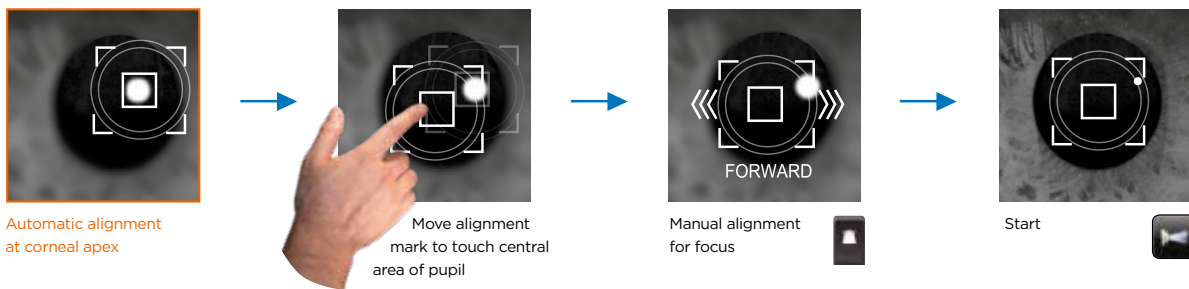


## Manual mode

If required, the CT-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.



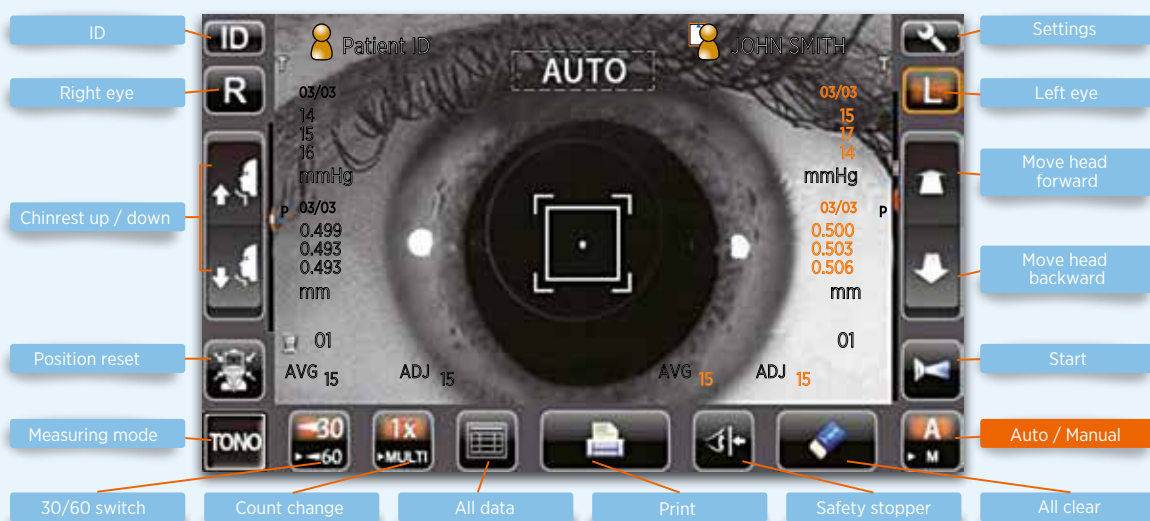
The difference between the pupil center and the corneal apex allows the CT-1P to easily take measurements.



## 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-1P automatically takes measurement of the right and left eyes quickly and easily.



# CT-1P features



wall set up / behind patient

## Flexible and space saving lay out

The adjustable touch screen control panel enables the operator to be positioned anywhere around the patient because the control panel can be faced in a number of different directions. The CT-1P can be positioned in a conventional set up, against a wall, or even in a corner of a room.

The compact body enables the operator to support the patient easily from many different positions during measurement, even when the patient's eye lid needs to be opened. These unique aspects will contribute to space saving and flexible layout in your eye examination room.



classic / conventional set up



corner set up

### Conventional position (seated)



Front position (seated)

### NEW Style (standing)



Ergonomic operation in standing position

### NEW Style corner position



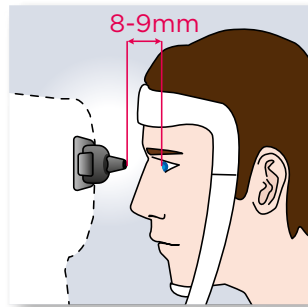
Side position

### NEW Style wall position



Rear position

# CT-1P features



## Safety functions

The CT-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 - 9 mm) 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 manually be adjusted very quick and easy. Each patient and each eye need to be adjusted before measurement.



## Reduced nozzle maintenance

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

(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
<b>AVG</b>			
12.5	12.5	11.0	11.0

**4**

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

**5**

**3** PACH.DATA

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

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## Built in printer

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

- 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

# CT-1P features



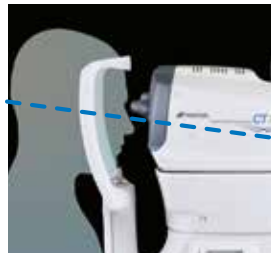
## Soft air puff

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.

## Ergonomic optical head and headrest design



Topcon conventional model

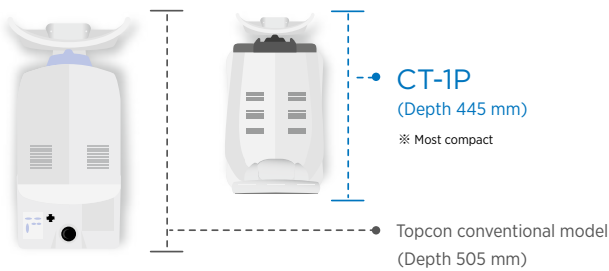


CT-1P

## Compact ergonomic design

The CT-1P provides a more comfortable position for the patient due to the fixation target on a 5° downwards angle and the improved chinrest design. The compact body enables the operator easier access to the patient and therefore better interaction with the patient.

## Compact Body



Topcon Imaging and database software.



## Connectivity

The CT-1P can be integrated into the Topcon Imaging and database software. This software enables easy and fast access to patient data and is a useful tool to maintain customer contacts.

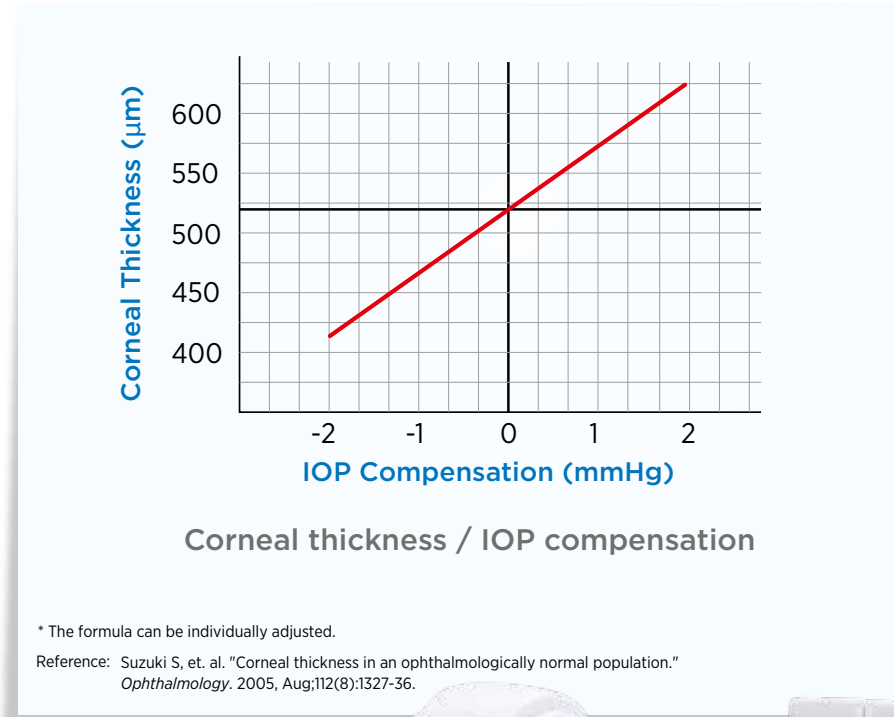


# CT-1P features

## Corneal thickness measurements

The CT-1P provides compensated IOP values with central corneal thickness (CCT). Studies show that the CCT could affect IOP measurements, for exam-

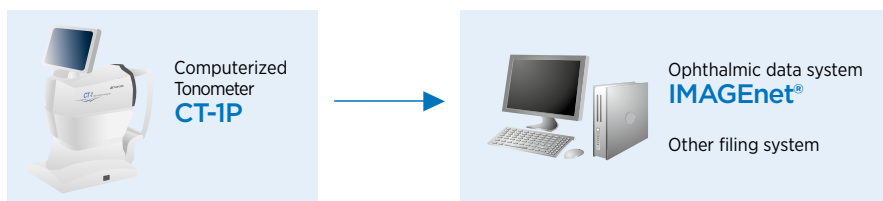
ple IOP values measured using a conventional tonometer are higher in eyes with a thicker cornea, and the diagnosis of normal tension glaucoma can also be affected by thin CCT.



## Specifications

<b>Ocular pressure measurement Measuring range</b>	1 to 30 mmHg / 1 to 60 mmHg (1 mmHg step) Average indication: 1 mmHg / 0.1 mmHg steps changeable
<b>Corneal thickness measurement Measuring range</b>	0.4 to 0.75 mm (0.001 mm step)
<b>Monitor</b>	8.5 inch WVGA color LCD monitor, touch panel
<b>Data transport terminal</b>	USB (Import), RS232C (Export), LAN (Export)
<b>Dimensions</b>	286 - 326 mm (W) x 445 - 526 mm (D) x 466 - 615 mm (H)
<b>Weight</b>	19,5 kg
<b>Power supply</b>	100 - 240V AC, 50 - 60Hz, 75VA

## System chart



\* Contact Topcon subsidiaries or dealers for system configurations.

### 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 IIa. Manufacturer: Topcon Corporation.



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