



# CT-1 / CT-1P

## Computerized Tonometer

**Cod. CT-1 / CT-1P**



### The Next Generation of Tonometry

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 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.

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

### 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)

\* CT-1P "P" stands for pachymetry



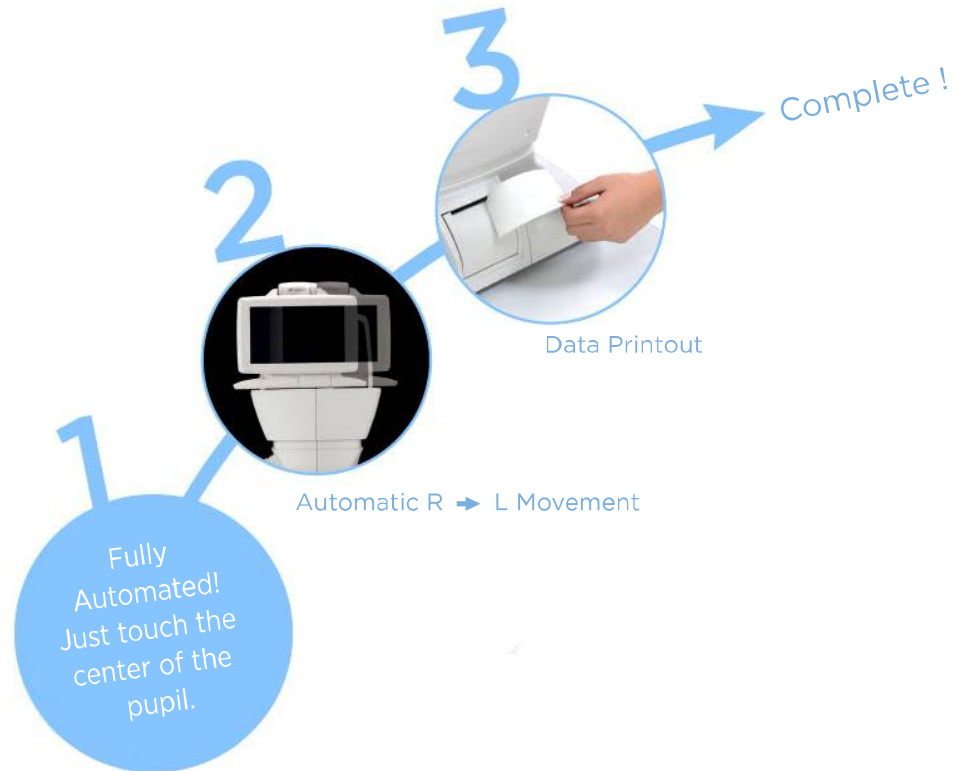


# BRING INNOVATION TO THE EXAMINATION: CT-1 / CT-1P

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

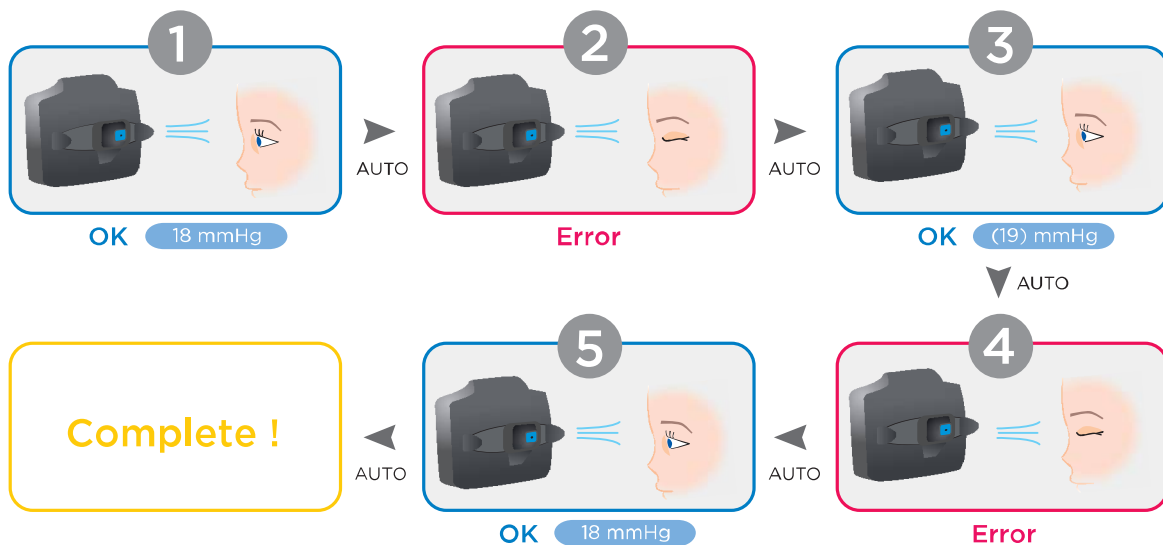
R / L fully automated measurement



## 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.



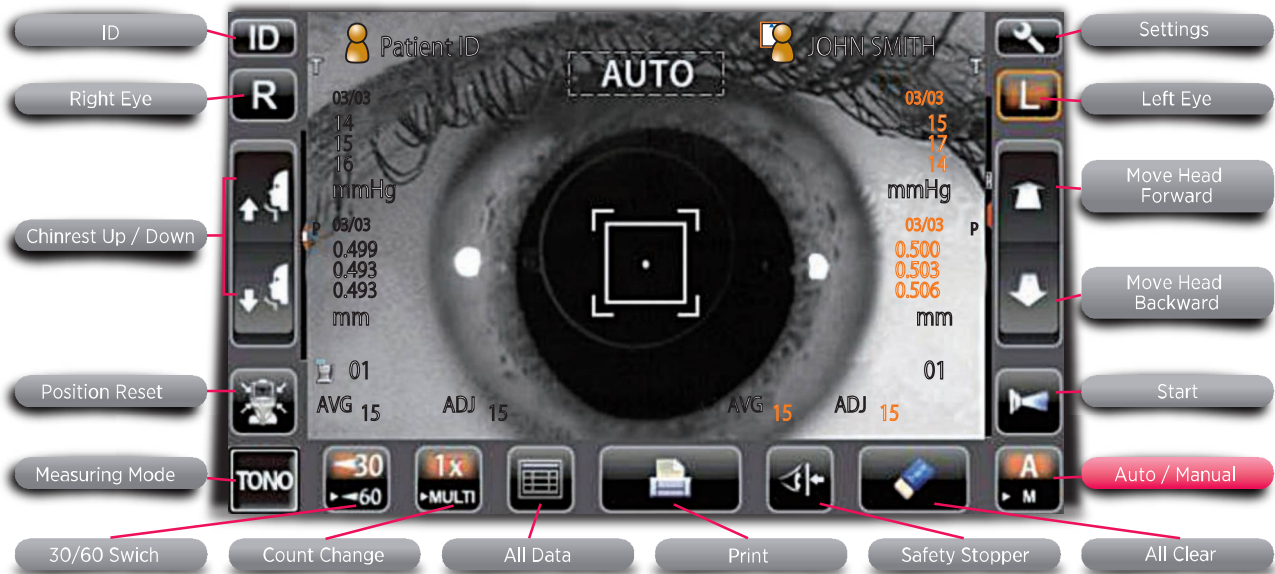
## Manual Mode

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

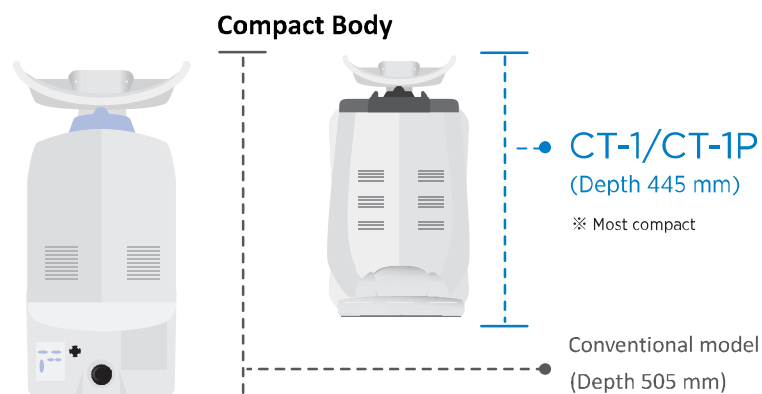
All operating procedures can be performed with the touch screen control panel. The sophisticated buttons provide an intuitive operator experience.

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 KR-1 Auto Kerato-Refractometer.



## Examples of layout

### Layout Ex. 1

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.



### Layout Ex. 2

a) When the KR-1 and CT-1/1P are positioned face to face

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



## Corneal Thickness Measurements (CT-1P only)

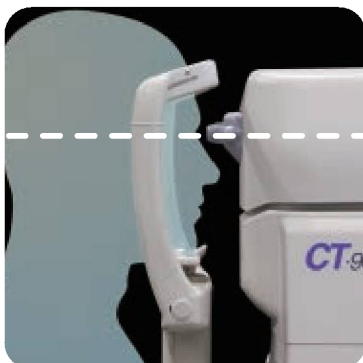
The CT-1P provides compensated IOP values with central corneal thickness (CCT). Studies show that the CCT could affect IOP measurements, for example IOP values measured using a conventional tonometer are higher in eyes with a thicker cornea, and the diagnosis of normal tension glaucoma can also be affected by thin CCT.

## 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

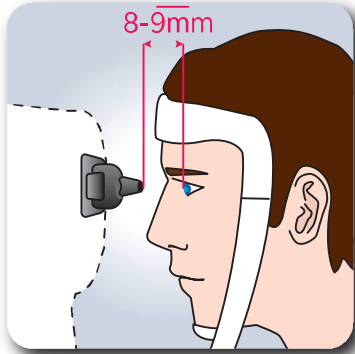
The CT-1/1P's new ergonomic design provides a more comfortable position for the patient with an inclined optical head (5°) and a new headrest design.



CT-1/CT-1P

## 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.

## 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.)

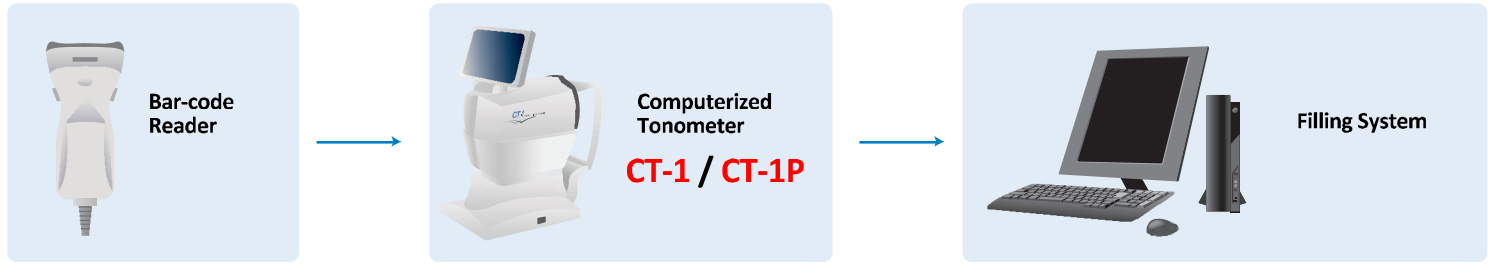
-CT 010017-			
OID: JOHN SMITH <b>1</b>			
NAME			
2012_01_01	AM 11:00		
NO:Patient ID	01		
SN:0000001			
<b>2</b> TONO. DATA			
< R >	< L >		
mmHg	ADJ.	mmHg	ADJ.
12	12	12	12
13	13	10	10
13	13	11	11
AVG			
12.5	12.5	11.0	11.0
< R >	< L >		
hPa	ADJ.	hPa	ADJ.
16	16	16	16
17	17	13	13
17	17	14	14
AVG			
16.5	16.5	14.3	14.3
<b>3</b> PACH.DATA			
< R >	< L >		
mm	mm		
0.511	0.510		
0.510	0.509		
0.510	0.508		
AVG			
0.510	0.509		
TOPCON			
TOPCON Clinic <b>6</b>			

- 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

## 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





Specifications

Ocular Pressure Measurement	1 to 30 mmHg / 1 to 60 mmHg ( 1 mmHg step )
Measuring Range	Average Indication: 1mmHg/0.1mmHg steps changeable
Corneal Thickness Measurement	0.4 to 0.75 mm ( 0.001 mm step )
Measuring Range*	
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



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