

CT-1/CT-1P

Computerised Tonometer



The automated features of the CT series support optimization of your clinic workflow.

CT-1/CT-1P

Computerised Tonometer



OVERVIEW



Automated
Robotic Tonometer



Simple Operation
with Touch Screen
Monitor



Full 360° Rotating
Touchscreen panel



Easy-to-Use



**Flexible And
Space-saving**
Positioning

Fully Automated With Touch Screen

Simply touch the centre of pupil on the touch screen control panel and the CT-1/CT-1P automatically captures the right eye before moving across to capture the left eye.

The CT-1/CT-1P provides an innovative operator experience and eliminates the need for a control lever.



1. Fully automated.
Just touch the
centre of the pupil.



2. Automatic R/L
movement.



3. Data print or
export.

COMPLETE

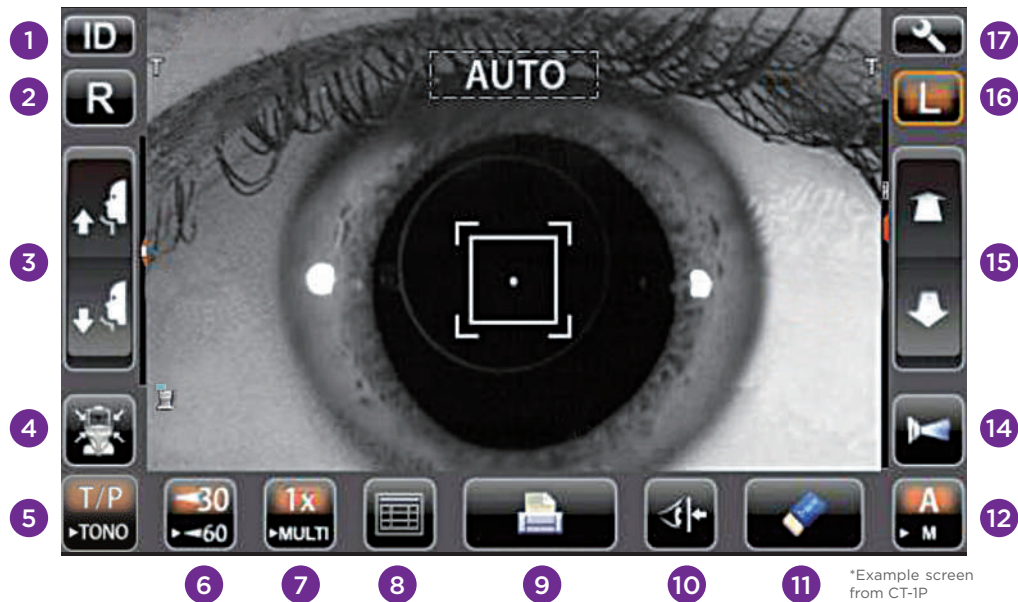
Manual Mode

If required, the CT-1/CT-1P can be set to manual mode for measurement of patients who are difficult to measure on Auto-Mode. The operator adjusts the position of the pupil and corneal center, focuses the patient's eye, and then presses the start button to start the measurement.

Safety Functions

The CT-1/CT-1P incorporates safety functions to keep patients safe. The safety stopper ensures that the measuring window does not get too close to the eye. The distance from the eye can be set before measurement (ex. 8-9mm) to allow for patients with deep-set eyes. A notification on the screen and auditory buzzer warn the operator if the device has reached the limit of forward movement. In addition, an air check can be performed prior to measurement, to ensure the nozzle is clear.

Easy-to-use Colour Touch Screen



*Example screen from CT-1P

- | | |
|---------------------------|------------------------------------|
| 1. ID | 9. Print |
| 2. Select right eye | 10. Set safety stopper |
| 3. Chinrest up/down | 11. Clear data |
| 4. Position reset | 12. Auto / manual selection |
| 5. Measuring mode | 13. Start (manual) |
| 6. 30/60 range selection | 14. Move device forward / backward |
| 7. Number of measurements | 15. Left eye selected |
| 8. View all data | 16. Settings |
| | 17. L |

FEATURES

Flexible And Space-Saving Layout

The adjustable touchscreen control panel provides flexibility on where the operator stands in relation to the patient. The control panel can be rotated in multiple directions. This allows the operator to support the patient from behind if required, for example by supporting the patient's head against the headrest or lifting the patient's eyelid.

The rotating screen also provides flexibility in the positioning of the CT-1/CT-1P, depending on the design and workflow of the examination room. It can even be positioned in the corner of a room with the operator controlling the device from the side or behind. In addition to flexibility in layout, this also saves space.



1 Back

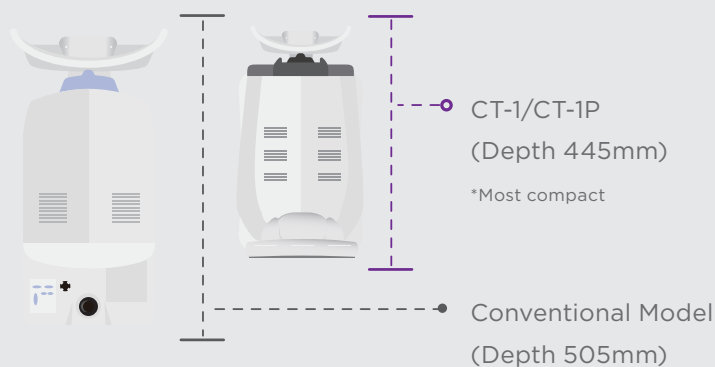


2 Side



3 Front

Compact Body



Reduced Nozzle Maintenance

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

1. Operator ID (optional)
2. Measured and adjusted IOP values in **mmHg**
3. Measured and adjusted IOP values in **hPa**
4. Measured corneal thickness values in **mm***
5. Clinic name (optional)

*CT-1P only



-CT 010017-

1 **OID: JOHN SMITH 1**

NAME

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

TONO. DATA

< R >			
mmHg	ADJ.	hPa	ADJ.
12	12	16M	16M
(13)	(13)	(17)	(17)
13	13	17	17
AVG			
12.5	12.5	16.5	16.5

PACH. DATA

< R >	
mm	
ERR	
0.5 1 1 M	
0.5 1 0	
0.5 1 0	
AVG.	
0.5 1 0	

TONO. DATA

< L >			
mmHg	ADJ.	hPa	ADJ.
ERR	ERR	ERR	ERR
12	12	16M	16M
(13)	(13)	(17)	(17)
13	13	17	17
AVG			
12.5	12.5	16.5	16.5

PACH. DATA

< R >	
mm	
ERR	
0.5 1 1 M	
0.5 1 0	
0.5 1 0	
AVG.	
0.5 1 0	

IOP ADJ FORMULA
A: 545 B: 500

5 **TOPCON Clinic**

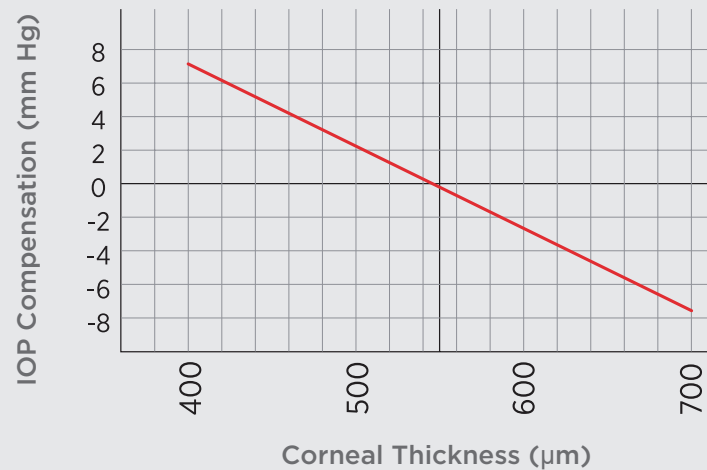
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FEATURES

Corneal Thickness Measurements (CT-1P only)

The CT-1P captures pachymetry as well as intraocular pressure measurements. This enables the option to display IOP measurements compensated for the central

corneal thickness (CCT). Studies show that CCT values that differ from the average, can affect IOP measurements.

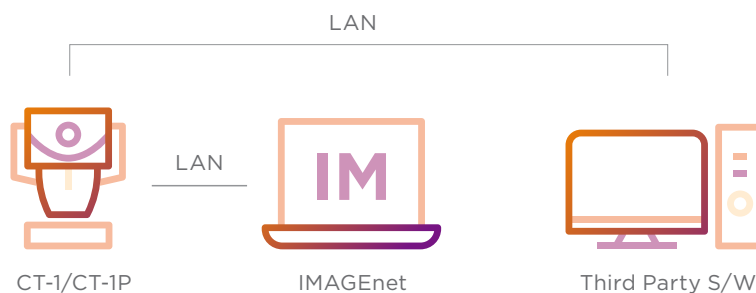


The formula for the IOP compensation for CCT, is based on the work of Herndon. However, the clinician can adjust this compensation in settings should they wish.
Reference: Herndon L. "Rethinking pachymetry and intraocular pressure." Rev Ophthalmology 2002;July

Connectivity

Topcon's imaging and database software

IMAGEnet® enables fast and easy export to patient record systems.



Specifications

Ocular pressure measurement Measuring range	1 to 60mmHg (Display unit: 1mmHg step display, Average value: 1mmHg/0.1mmHg step display) 1 to 30mmHg step display (switchable to 1 to 60mmHg step display)
Corneal thickness measurement Measuring range (CT-1P)	0.4 to 0.75 mm (Display unit : 0.001 mm step display)
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	19.5kg
Power Supply	100-240V AC, 50-60Hz, 75VA

CT-1 is not sold in EMEA region. Please contact your local Topcon distributor for availability.

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.



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