



COMPUTERIZED TONOMETER

CT-80



The New Computerized Tonometer CT-80 incorporates innovative features to make Intraocular Pressure measurements almost effortless.

30% Faster Interval Time

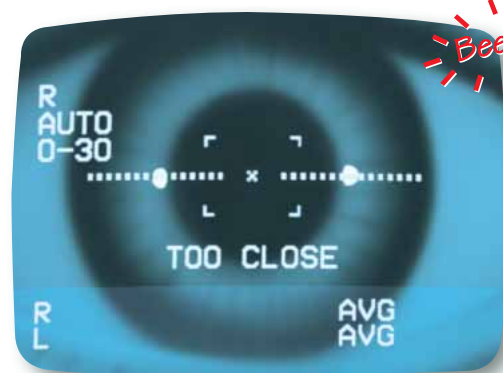
Fast and Easy Measurements

The CT-80 provides easier and faster operation with the aid of a new alignment bar and an improved air cylinder. The interval between measurements has been reduced by over 30%, so that patients may be examined more comfortably in a shorter period of time. Once the alignment has been completed, the resulting data are automatically measured and displayed.

Triple Safety Function

A Focus on Safety

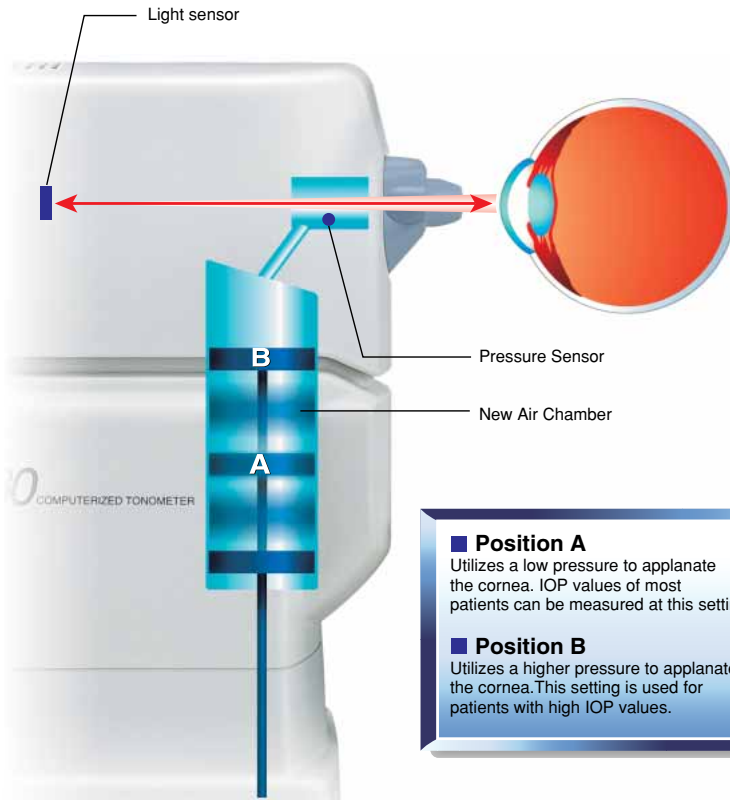
The CT-80 features an innovative triple safety function. First, an adjustable safety stopper may be set by the operator. Second, a "too close" display on the monitor guides the user in alignment. Third, an audible warning buzzer informs the operator if the cornea and the instrument are too close.



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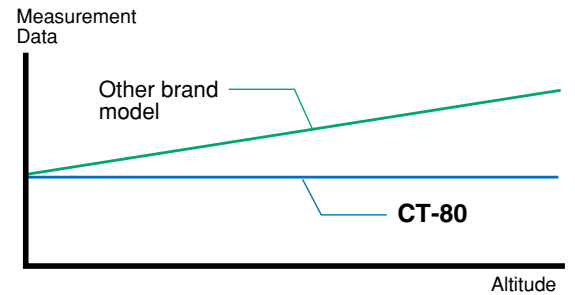


Dual Sensor System

TOPCON's Accurate Measuring System

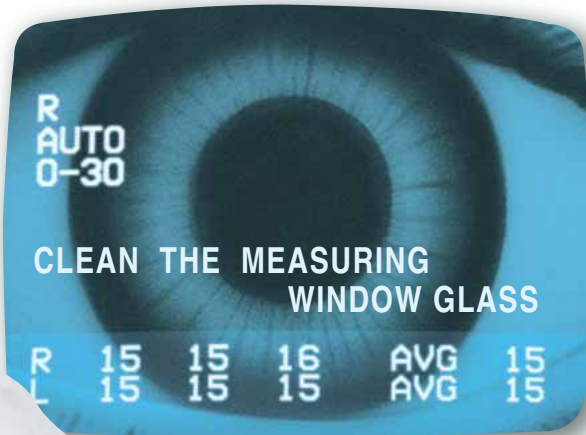
The TOPCON CT-80 takes its original measurement method using two sensors; one for light and one for pressure. When the air puff applanates the cornea a light sensor detects the applanation moment, while at the same time another sensor monitors the internal chamber to obtain the intraocular pressure.

This new calculating system allows the operator to obtain highly precise and accurate measurement data without the influence of atmospheric pressure, altitude or any possible mechanical degradation.



Built-in Self Check Function

The CT-80 lets the operator know in advance when maintenance is needed. It displays a warning message on the monitor when a lens is dirty, and also which lens it is (the measurement glass or the chamber glass).



Internal Fixation Target

Infrared lighting provides the main illumination for the CT-80: eliminating the need for harsh, bright alignment lighting and increasing patient comfort.

Optional Manual Control

The CT-80 can be operated in a fully manual mode by overriding the automatic measurement setting. The alignment procedure is similar to that used in the automatic mode, however, measurements are not captured automatically. Instead, the system must be activated manually by pushing the joystick trigger. The alignment mark displayed on the monitor will change from a broken box to a solid pattern when proper alignment is achieved.



NAME				
MAY/26/1999 PM 05:24				
		mmHg		AVG
R	17	17	17	17
L	17	17	16	17
CT-80 TOPCON				

Built-in Printer

The CT-80 features a built-in printer that provides a hardcopy of all stored IOP data at the touch of a button. Up to three individual measurements plus an averaged value can be printed for each eye from either the automatic or manual mode.

SPECIFICATIONS

Measurement Range	0–60mmHg [0–30mmHg/0–60mmHg(Selectable)]
Working Distance	11mm
Measurement Display	TV Monitor Screen * R/L change-over · · · automatically detected and displayed. * Up to three measurements of each eye can be displayed and printed out.
Measurement Recording	Built-in printer
Measurement Mode	Auto / Manual (selectable)
Alignment	When the alignment luminous spots are within the inner alignment mark, * In Auto Mode : measurement is automatically activated * In Manual Mode : alignment will change from a broken box to a solid pattern when proper alignment is achieved, and depressing the switch on the omni-directional joystick activates the measuring cycle.
Error Indication	When the measurement signal is not strong enough, IOP value is indicated in () or just 'ERR' is displayed.
Adjustable Safety Stopper	Minimum distance between the front of the instrument and the patient can be established in advance.
Operating Temperature	10°C to 40°C
Base Travel	44mm (back & forth) / 88mm(left & right) / 28mm(vertically)
Chinrest Vertical Travel	68mm
External Output Terminal	RS-232C
Power Supply	AC100-120V, 220-240V 50/60Hz
Power Consumption	80VA ("Auto-shut-off" : power saving mechanism adopted)
Dimensions	272(W)×505(D)×430~458(H)mm
Weight	Approx.18 kg



OPTIONL ACCESSORIES

Adjustable Instrument Table **AIT-15**

*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.