Reichert 7CR

Auto Tonometer + Corneal Response Technology™

The Glaucoma Tonometer.

Reichert™
TECHNOLOGIES
Advancing Eye Care. Preserving Sight.™

Reichert 7CR Auto Tonometer + Corneal Response Technology™

IOP is the only modifiable risk factor for glaucoma and, as such, accurate tonometry is of critical importance in the diagnosis and management of this disease. It is widely recognized that the current gold standard for measuring pressure, the Goldmann Applanation Tonometer (GAT), has considerable flaws. Goldmann, and other current tonometers, are significantly influenced by corneal properties such as rigidity and thickness. Though it has been shown that GAT provides clinically reliable measurements in eyes with "average" corneas, we now know that many corneas vary more significantly from average than previously thought.

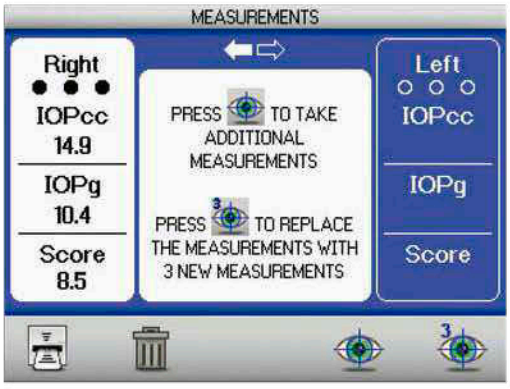
Numerous Studies have shown that thicker corneas overstate IOP values and thinner corneas understate IOP. However, ***thickness does not adequately describe corneal biomechanical properties***, making the use of CCT-based correction algorithms questionable at best. In fact, researchers have concluded that correcting IOP based on CCT can lead not only to errors in the magnitude, but also in the direction of the adjustment.

> *"Correction nomograms that adjust GAT IOP based solely on CCT are neither valid nor useful in individual patients."*
> *– Pg 18. Robert N. Weinreb, James D. Brandt, David Garway-Heath and Felipe Medeiros. World Glaucoma Association on Intraocular Pressure; Consensus Series 4; May 5, 2007*

Reichert's 7CR Auto Tonometer + Corneal Response Technology takes corneal biomechanical properties into consideration, providing ***Corneal Compensated IOP (IOPcc)*** - a pressure measurement that is significantly less affected by the cornea than other methods of tonometry. The instrument's unique ability to simultaneously provide a ***Goldmann-correlated IOP measurement (IOPg)*** and ***IOPcc***, provides clinicians with a better understanding of patient tonometry values, enhancing clinicians ability to make critical diagnosis and treatment decisions.

Reichert 7CR Features

- IOPg (Goldmann Correlated IOP) and IOPcc (Corneal Compensated IOP) clearly displayed on color LCD
  - Measurement "Score" indicates reliability of readings
- Easy-to-use, touch-screen user interface requires minimal operator training
- Exclusive Reichert technology ensures the softest possible air puff
  - Real-time applanation detection system provides a custom air puff for every measurement
- Simple and fast patient positioning - No chinrest, joystick, or elevation controls
  - Patients simply lean against convenient left/right sliding forehead rest
  - Obvious fixation cues for fast alignment
  - Alignment and measurement is completely automated
- Triple-measurement mode delivers three consecutive IOP measurements with a single button press
- Internal printer and Electronic data transfer via USB port
- Reichert's Corneal Response Technology is patented: *US 7, 481, 767 B2*



Reichert 7CR simultaneously displays IOPg and IOPcc

Reichert 7CR is more accurate in:

- Normal Tension Glaucoma patients
- Primary Open Angle Glaucoma patients
- Post-LASIK and refractive surgery patients
- Fuchs' / edematous patients
- Keratoconus patients
- Patients with thick, thin, or biomechanically atypical corneas

Specifications

Catalog Number	16060
Dimensions	19.75" h x 10.5" w x 14" d (50.2 x 26.7 x 35.6 cm)
Weight	23 lbs (10.4 kg)
Voltage	100/240 VAC
Frequency	50/60 Hz
Measurement Range	7 - 60 mmHg (ISO 8612 tonometer standard)

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