

## **Tono-Pen** by Mentor Ophthalmics (Norwell, MA)

Tech support: Theo Klasse or Sabian Tavernier 1-800-872-9877 (“Repair and Return Dept”)

### Clinical Use

1. Cover the Pen with a new Ocu-Film Tip Cover.

2. Depress the Activation Switch **once**.

If you hit the button twice in rapid succession, you will enter the Calibration mode, and “CAL” is displayed on the LCD. Depress the the Activation Switch once more to get out. A blank LCD means you have to depress the Activation Switch for a longer period of time.

**The LCD should read “====”. This is key.**

Preparing for a reading on the Pen involves **two** lines (====) and depressing the Activation Switch **once**.

Calibration, on the other hand, involves **one** line (- - -) and depressing the Activation Switch **twice**.

3. The tip of the pen is lightly touched to the patient’s cornea, in the visual axis. You do not need to poke/depress the cornea with the instrument. A click will sound each time a valid reading is obtained.

4. After 4 valid readings are obtained, a final beep will sound. The averaged measurement will appear on the LCD, along with the single bar denoting statistical reliability.

If the reliability measure is 20% or >20%, repeat the measurement.

A number without the single bar is a single measurement of the IOP.

If four dashes (- - -) appear on the LCD, an insufficient number of valid readings was collected.

Start over at Step 2.

5. The key to obtaining a good reading is to have the 1.7 mm<sup>2</sup> tip of the Pen touch flush against the corneal surface. If only one edge of the tip touches before the central portion of the tip (where the strain gauge transducer is located), an inaccurate or no reading results.

### Pitfalls

1. The Mentor Ophthalmics boys recommend cleaning the instrument bi-monthly with alcohol. The Tono-Pen is stored with the Ocu-Film Tip Cover in place, permitting cornstarch (from the Ocu-Film Tip Cover) to accumulate.

2. Do not apply the Ocu-Film Tip Cover too tight. “Pleats” are permissible. The Ocu-Film Tip Cover should be flat across the tip, but not taut.

3. **Remember, two lines (====) are good.**