Tono-Pen AVIA® *Quick Reference Guide*
Applanation Tonometer

Reichert TECHNOLOGIES

Ocu-Film + Instructions

Proper set up of the Ocu-Film® + tip cover is essential for the precision and accuracy of the tonometry measurement. A new Ocu-Film + tip cover must be used for each new patient. Be certain that the film is flat across the tip, but not too taut or too loose.

Position the Ocu-Film + applicator on the transducer.

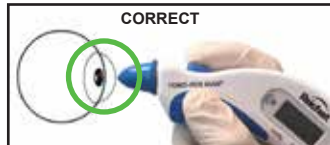Roll the Ocu-Film + tip cover onto the tip.

CORRECT

Remove the applicator.

Taking an IOP Measurement

To take a measurement, press the button once. **[88888]** will briefly be displayed, followed by a double row of dashes **[====]**, indicating the Tono-Pen is ready to measure.

The corneal surface needs only to be momentarily contacted. **Indentation or excessive pressure is not required and may lead to injury to the eye.**

CORRECT

INCORRECT

Button   LCD Display

Transducer

Keep the Tono-Pen AVIA covered with an Ocu-Film + tip cover at all times, even in storage.

Verification Procedure

Verification must be successfully performed:
- When battery has been replaced
- Whenever the measurements are in question

Verification can be performed with or without an Ocu-Film + tip cover installed.

Note: The first thing to be displayed on the LCD screen during verification mode is **[dn]** for down.

1. Hold the Tono-Pen® with the transducer end pointed straight down toward the floor.
2. Press and hold the button for 5 seconds. The instrument will "beep" 5 times and the LCD will display **[dn]**.
3. Hold the Tono-Pen steady for 5 seconds until the device "beeps" and the LCD displays **[UP]**.
4. Quickly and smoothly flip the Tono-Pen up, so the transducer is pointing straight up.
5. A properly functioning Tono-Pen will display **[Pass]** and the device will "beep". Press the operating button again to ready the pen for a measurement.
6. If **[Fail]** is displayed, repeat this verification procedure.

Troubleshooting

Tono-Pen AVIA Does Not Taking A Reading
- Tip may be dirty. Perform the cleaning procedure. If problem persists, send the pen in for service.
- Ocu-Film + may be installed incorrectly. Refer to *Ocu-Film + Instructions* on reverse.
- Use blue Reichert brand Ocu-Film + **ONLY**. Use of other brand tip cover may affect readings or may void your warranty.
- If the above does not resolve the issue, **STOP** and send the unit in for repair.

Tono-Pen AVIA Displays [FAIL]
- Unit may be in verification mode. Perform the verification procedure.
- Verification procedure incorrectly performed. Pen is flipped up when **[dn]** is displayed. Perform the verification procedure.
- Tip may be dirty. Perform the cleaning procedure. If problem persists, send the pen in for service.

Tono-Pen AVIA Turns Off
- Unit is going into power saving mode. If no measurements are taken within 15 seconds, the Tono-Pen will go into battery saving mode. Turn it on by pressing the button once.
- Battery may be low. Replace the battery, then perform the verification procedure.

Tono-Pen AVIA [FAIL]s Verification
- Tip may be dirty. Perform the cleaning procedure. If problem persists, send the pen in for service.
- Pen is being flipped up too slowly. The pen should be turned up quickly and smoothly when **[UP]** appears.

Cleaning Procedure

1. Remove the Ocu-Film + tip cover.
2. Hold the tip of the Tono-Pen against the nozzle of a can of compressed air.
3. Blow air into the tip for approximately **3 seconds.** Do not perform more than 3 times consecutively.
4. The tip will be cold; allow the tip to warm to room temperature.
5. Perform the verification procedure after cleaning.

Cleaning Tip

Cleaning Schedule

Number of Patients per Week	Number of Days Between Cleaning
10	30
100	15
300	7
600	1

Tono-Pen Service
- Go to **ww.reichert.com/rma**
- Fill out the RMA request form.
- An RMA will be sent to you via email.
- Send in your instrument, inside the protective carrying case, with a copy of the RMA.