Tono-Pen AVIA® Quick Reference Guide
Applanation Tonometer

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.
- 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.

Two Measurement Modes Are Now Available
- First Generation Mode
  Shipped in this mode, provides an average IOP value after 6-10 applanations are obtained (typically 3-5 taps).
- Second Generation Mode with Quick-Tap™
  Provides an IOP measurement in fewer applanations.

Refer to ‘Tono-Pen AVIA Tonometer Modes’ and ‘Measurement Modes’ in the User’s Guide for additional information.

Verification Procedure
Verification must be successfully performed whenever the measurements are in question.

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 15 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.

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. Using canned air, place the outlet of the canned air firmly against the Transducer Tip as shown in the below image.

Note: Try to get a good seal between the canned air and the tip to blow any contaminants stuck in the tip safely into the internal cavity.
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. Wipe the outside of the Tono-Pen with a clean, dust-free, cotton cloth dampened with either a 70% isopropyl alcohol solution, 7.5% Hydrogen Peroxide solution, or 5.25% Bleach solution, and distilled water, or a Clorox¹ Bleach Germicidal Wipes (0.55% sodium hypochlorite) or a Sani-Cloth² Prime Germicidal wipes (Didecyl Dimethyl Ammonium Chloride, isopropyl alcohol and ethyl alcohol).
6. Perform the verification procedure after cleaning.
7. Install a new Ocu-Film tip cover as indicated in the User Guide.

Cleaning Schedule

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<th>Number of Patients per Week</th>
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Tono-Pen Service
Go to www.reichert.com/rama. 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.

¹ Clorox is a registered trademark of the Clorox Company, Oakland, CA.
² Sani-Cloth is a registered trademark of PDI, Inc., Woodcliff Lake, NJ.