

## 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.

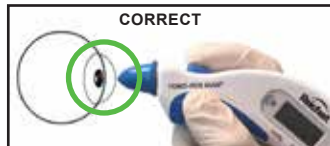


Remove the applicator.

## 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.

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 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 Clorox<sup>1</sup> Bleach Germicidal Wipes (0.55% sodium hypochlorite) or a Sani-Cloth<sup>2</sup> 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 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 [www.reichert.com/rma](http://www.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.

<sup>1</sup> Clorox is a registered trademark of the Clorox Company, Oakland, CA.

<sup>2</sup> Sani-Cloth is a registered trademark of PDI, Inc., Woodcliff Lake, NJ.