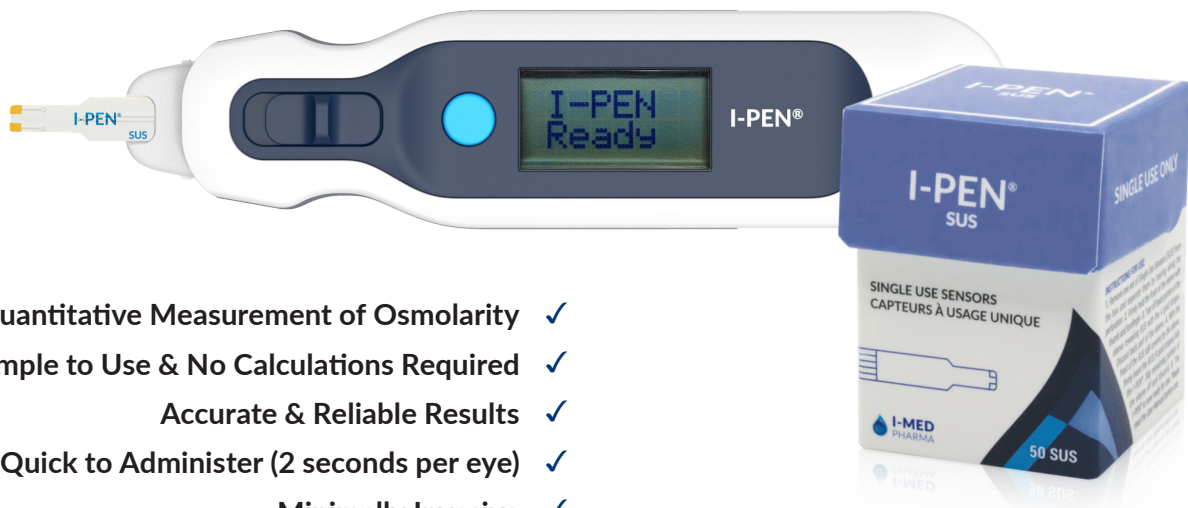


THE NEW STANDARD FOR MEASURING TEAR OSMOLARITY

RAPID – RELIABLE - REPRODUCIBLE

I-PEN®, the world's first portable device to detect and measure the tear film osmolarity levels associated with dry eye disease.



- Quantitative Measurement of Osmolarity ✓
- Simple to Use & No Calculations Required ✓
- Accurate & Reliable Results ✓
- Quick to Administer (2 seconds per eye) ✓
- Minimally Invasive ✓
- Affordable ✓

Uses Single-Use-Sensors

I-PEN® MEASURES TEAR OSMOLARITY IN SECONDS

The I-PEN®, used in conjunction with the I-PEN® Single Use Sensors (SUS), provides a quick and simple method for determining tear osmolarity of the tissues bathed in the tear film of the orbital tissues such as the palpebral conjunctiva.

After approximately 2 seconds of contact with the eyelid tissue, the I-PEN® Tear Osmolarity System will display a quantitative tear osmolarity test result on the liquid crystal display (LCD) in units of mOsm/L. **No calculations required!**

The I-PEN® Tear Osmolarity System utilizes an impedance measurement to provide an indirect assessment of osmolarity of the tear film of the eye.

The I-PEN® Tear Osmolarity System is designed for use as an in-practice measurement tool both for patients presenting with dry eye symptoms and for all pre-and post-surgical patients. In addition, the I-PEN® Tear Osmolarity System is an invaluable asset for monitoring the progress of dry eye treatment therapies.

THE I-PEN® TEAR OSMOLARITY SYSTEM IS FOR PROFESSIONAL IN-VIVO USE ONLY.

To arrange an in-office demonstration, please contact your local I-MED Pharma Sales Representative.

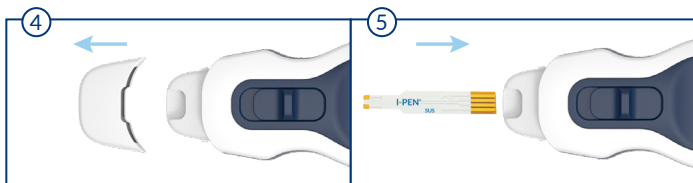
REMOVE THE SINGLE-USE-SENSOR FROM PACKAGE

1. Tear along the dotted line to separate the attached ①, wrapped I-PEN[®] Single-Use-Sensors.
2. Grasping the bottom firmly with one hand ②, with the other hand tear in the direction of the pre-cut section to expose the end of the I-PEN[®] Single-Use-Sensor ③ to be inserted into the I-PEN[®] Device.



INSERT THE SINGLE-USE-SENSOR

First remove the unit cover ④, then insert the disposable I-PEN[®] Single-Use-Sensor ⑤ and **DO NOT TOUCH THE GOLD NODES** or the sterile tip. *I-PEN[®] Single-Use-Sensors that are physically damaged or past their expiration date should not be used.*



TAKING A READING

Do not use the I-PEN[®] Tear Osmolarity System if the Reader does not display "I-PEN Ready".

1. Ask the patient to gently squeeze their eyelids shut for 30-60 seconds prior to taking a reading.
2. Position the tip of the disposable I-PEN[®] Single-Use-Sensor just above the lower eyelid with the LCD screen facing upwards.
3. Turn on the I-PEN[®] Device as indicated in section above **only when you are ready to take the reading** by pushing the on/off switch to the on position.
4. Approach at a 30-45 degree angle from horizontal and gently lower the end of the I-PEN[®] Single-Use-Sensor on to the **middle** of the conjunctiva on the inside of the lower eyelid. **Do not immerse the tip of the I-PEN[®] Single-Use-Sensor in the lower tear meniscus.**
5. When correctly placed, the tip of the I-PEN[®] Single-Use-Sensor should be depressing the surface slightly so that both gold nodes are in good contact with the conjunctiva.
6. The I-PEN[®] Tear Osmolarity System will make an audible beep after several seconds and display the reading on the LCD screen.

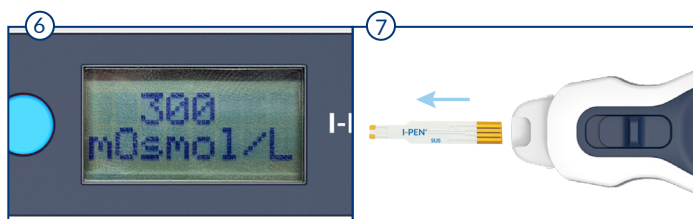
THE LCD WILL DISPLAY THE TEST RESULT

The I-PEN[®] Tear Osmolarity System test results are displayed on the LCD in units of mOsmol/L. ⑥. No calculations are required.

In the case of a reading error, replace the SUS, as a second reading cannot be made. Please be aware that a second reading may also produce reflex tearing which may affect the osmolarity of the tear film.

EJECT THE SINGLE-USE-SENSOR

⑦ Push the Ejector button and the I-PEN[®] Single-Use-Sensor will be ejected. **You may now discard the Single-Use-Sensor and insert a new one for the second eye.**



WATCH THE I-PEN[®] IN ACTION

[imedpharma.com/diagnostic-tools/tear-osmolarity](https://www.imedpharma.com/diagnostic-tools/tear-osmolarity)

QUESTIONS OR COMMENTS?

Customer satisfaction is an I-MED Pharma Inc. priority. To help us in providing you with the best possible product and support, please send us your comments and suggestions to info@imedpharma.com.

Please note: In order to conserve battery life, the I-PEN[®] is programmed to enter Sleep Mode automatically thirty seconds after it powers up. In doing so, this can invalidate the SUS and a new SUS should be inserted.