

DRY EYE DISEASE

Dry eye disease, also called keratoconjunctivitis sicca, affects more than 100 million people worldwide. Common symptoms of dry eye include dryness, grittiness, soreness, irritation, burning, watering, sensitivity to light and eye fatigue. These symptoms can significantly diminish the quality of life by hindering daily activities such as reading, computer usage, contact lens wear, enjoying outdoor activities, or working in a heated environment. Many dry eye patients complain that those symptoms worsen throughout the day. The symptoms of dry eye disease are one of the most common reasons people visit the eye doctor. If left untreated, this condition can lead to pain, corneal scarring, and some loss of vision.

The evaporative form of dry eye is more prevalent, and is thought to account for 65 – 85% of all dry eye occurrences. Of patients suffering from evaporative dry eye (EDE), it is believed that up to 86% of those have meibomian gland dysfunction (MGD). Meibomian glands are tiny lipid-producing glands that line the upper and lower eyelids. There are typically about twenty-five in the lower lid and up to fifty in the upper lid. These glands are responsible for producing a lipid commonly referred to as “meibum”, which is the main component of the outer layer of the tear film. When the meibomian glands do not produce enough meibum, the tear film breaks down quickly, allowing the aqueous middle layer to evaporate. When this occurs, patients typically feel a burning or gritty sensation, caused by exposure of the delicate corneal tissues to the atmosphere.



iLux Device



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Patient Information

The iLux device allows our eye doctors to view the eyelid margin through the magnifier, then warm the eyelid tissue within a therapeutic target range to melt the meibum blocking the orifices, and then apply compression to the eyelid to express the melted meibum through the orifices. iLux can treat both upper and lower eyelids.



Heat It

Apply LED light to raise the eyelid temperature and melt the blockages.

The proprietary light-based heat source gently warms the inner and outer lid to a safe therapeutic temperature. Sensors in the disposable iLux Smart Tip monitor inner eyelid temperature continuously during treatment.



Treat It

Gently compress the eyelid as much as you need to clear the blocked orifices.

One-button control of heating and compression puts treatment into our doctor's hands, allowing them to choose the location and duration of treatment.



See It

View the blocked meibomian gland orifices through the magnifying lens.

iLux allows direct visualization of meibomian gland orifices and expressed meibum throughout treatment via the magnifying lens, giving the doctors a clear view of the target area.

At Nova Eyecare, we strive to find the best solution to your dry eye problems. The iLux allows targeted treatment of the meibomian glands and gives our doctors more control over your treatment.

We always recommend following up with at-home therapy to maintain the results and prevent further blockages in the glands. Other treatments may be necessary to maintain adequate oil production.