

The Science Behind LipiFlow®

LipiFlow® is the only FDA-cleared instrument for Meibomian Gland Dysfunction (MGD), the chronic disease experienced by approximately 90% of all dry eye patients, shown to restore gland function. LipiFlow® is supported by over 30 years of scientific research and has been successfully used in over 40,000 treatments.

The only solution supported by large-scale clinical studies, LipiFlow® uniquely applies heat and pressure to the inner eyelid, optimizing its ability to heat and clear the meibomian gland.

VTP™ Technology: A Breakthrough Inner Lid Approach Safe, Effective, Precise, Proven

Vectored

Multi-point monitoring maximizes results and minimizes discomfort while the contoured design vaults the cornea. Along with force equalization, the eye is protected from heat and pressure while a maximum therapeutic temperature of 43 degrees Celsius is applied directly to the glands from the inner eyelid, without damaging the eyelid or delicate structures of the globe.

Pulse

Custom pressure sequence and device contour maximize safe gland clearing, preventing inner ocular pressure spikes.

Thermal

Proprietary heater technology ensures tight temperature regulation with continuous feedback and consistently even heat applied directly to the meibomian gland while space age insulation and vaulted design protects the cornea from exceeding a safe temperature.

LipiFlow® utilizes VTP™ technology to safely remove gland obstructions and stagnant gland content.



The LipiFlow® Activator

Key to Tear Film Stability

LipiFlow® Activator, a single-use sterile device, safely and comfortably delivers automated therapeutic energies to each meibomian gland from the inside while protecting the delicate structures of the patient's eye. Supported by 36 patents and 7 years of dedicated research, LipiFlow® Activator provides a level of accuracy and quality that allows eye care professionals to treat their dry eye patients with confidence and ease.

The Activator utilizes multiple technological innovations to deliver a safe and comfortable patient experience:

Therapeutic Motion_ designed using finite element modeling and years of testing and research to provide proximal to distal parastalsis to clear stagnant material from the gland.

Force Equalization_ protects the globe from pressure transmission by focusing energy only to the eyelid.

Feedback-Guided Sensors_ heat from the inner lid and phased external pressure ensuring 'gland-centric' application of energy.

Cornea Shield_ space-age insulation protects the cornea from exceeding a safe 39.5 degrees Celsius, while an intelligent pressure feedback loop sends pulsed sequences to expel blockage and stagnant material from the gland.

With LipiFlow® you can confidently intervene in the progression of MGD, improve gland function, and alleviate dry eye symptoms for your patients. Contact TearScience® for full product and safety information.