



# Visionary Solutions for Dry Eyes and more

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Visit our website and get more information about using IPL for Dry Eye Treatment related to MGD and other medical and aesthetic solutions for your practice.

# OptiClearXL

Visionary Solutions  
for Dry Eyes and more



-  Dedicated system for ophthalmologists
-  Clinically proven technology
-  Safe & effective treatment
-  Long-term results
-  No disposables
-  5 60 months warranty for complete system

Intense pulsed light (IPL) has been used for many years in dermatology for the treatment of rosacea, acne and skin pigmentation. The use of IPL for meibomian gland dysfunction was first reported over 15 years ago.

Clinical research shows that IPL treatments of MGD (Meibomian Gland Dysfunction)

- ⇒ destroys the abnormal blood vessels that cause inflammation, [1. 2.]
- ⇒ decrease the level of pro-inflammatory mediators and inhibit the progression of inflammation, [3. 4.]
- ⇒ improve the osmolarity of the tear film , [5. 6.]
- ⇒ restore the morphology and functionality of the meibomian glands, [7.]
- ⇒ decrease the number of demodex mites that facilitate infection and lead to MGD. [8.]

1. Kassir et al. (2011), J Cosmet Laser Ther 13(5):216-22.  
2. Papageorgiou et al. (2008), Br J Dermatol 159(3):628-32.  
3. Liu et al. (2017), Am J Ophthalmol 183:81-90.  
4. Yin et al. (2018), Curr Eye Res 43(3):308-13.  
5. Dell et al. (2017), Clin Ophthalmol 11:817-27.

6. Toyos & Briscoe (2016), J Clin Exp Ophthalmol DOI: 10.4172/2155- 9570.1000619.  
7. Yin et al. (2018), Curr Eye Res 43(3):308-13.  
8. Prieto et al. (2002) Lasers Surg Med 30(2):82-5.

## Ergonomic design for best performance

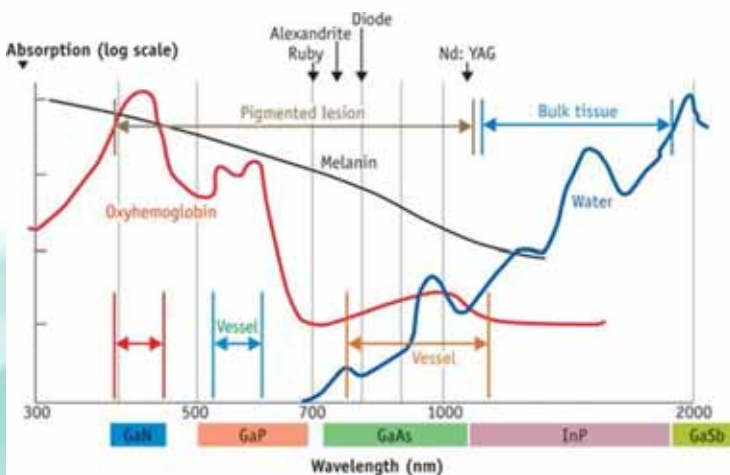
A special, compact and ergonomic applicator makes treatment comfortable for the user and provides maximum visibility of the treatment area. It also features an ideal spot size of 4.2 cm<sup>2</sup> for fast and precise treatment and complete coverage without overlap.

## Minimal risk, minimal pain

Simultaneous contact with the cooled sapphire tip protects the skin during treatment, minimizing the risk of superficial thermal irritation over time and resulting in a more comfortable and gentle treatment for the patient.

## Special Design

The special Opticlear XL mode, which ensures a gradual build-up of heat and thus increased patient comfort, is an alternative to the standard mode. The narrow band IPL uses two filters instead of the more common broadband IPL that uses only one filter in one direction .



IPL uses a xenon flash lamp that emits light in the spectrum from 420 to 1200 nm. Special filters limit the wavelengths. When applied to the skin, the light flashes cause the red blood cells in the telangiectasias to absorb the light, coagulate and eventually close the abnormal blood vessels where inflammation originates .

IPL also causes the skin to heat up and promote blood flow. The heat stimulates the production of meibomian glands. Heating also causes dilation of the glandular excretory ducts and warming of the meibomian gland, which in turn facilitates expression of the glands.

Pulsed energetic light has been used in dermatology for many years. IPL treatment, which is particularly gentle on tissue, is used for both medical and cosmetic indications.

Applications include permanent hair removal, reduction of pigmented and vascular lesions, wrinkle smoothing and skin rejuvenation.

The light pulses additionally stimulate collagen production and strengthen collagen fibers, shrinking large pores and softening wrinkles.



## Specifications

Light source	Intense pulsed light (Xenon Flash Lamp)
Spectrum range	420-1200nm
Energy density	0.5–30J/cm <sup>2</sup>
Pulse method	Single sequence pulse & Continuous Pulse
Single sequence pulse number	1~3 pulses
Pulse delay, Pulse width	5-50ms, 5-20ms
Deliver system	Direct sapphire Coupling
Spot size	IPL 12×35mm
Cooling system	Water cooling, forced-air cooling and semiconductor local cooling
Handpiece Cooling temperature	< 4°c
Height, Width, Depth	480mm, 660mm, 590mm
Weight	approx. 30Kg
Line Voltage	230VAC (refer to system labeling)
Line frequency	50/60Hz
Type of protection against electrical shock:	Class 1 equipment
Degree of protection against electrical shock:	Type BF equipment
Type of Classification against MDD 93/42/EEC	Class II equipment
Classification & Grouping	Group 1 Class A apparatus according to the standard of CISPR 11:2015+A1:2016 Clause 5.2.

*For contraindications, precautions and possible side effects, see Clinical Application and Instructions for Use.*

Exclusive distributor:



**Van Hopplynus Ophtalm**  
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**THE ONE WAY TO IMPROVE YOUR WORKFLOW**

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