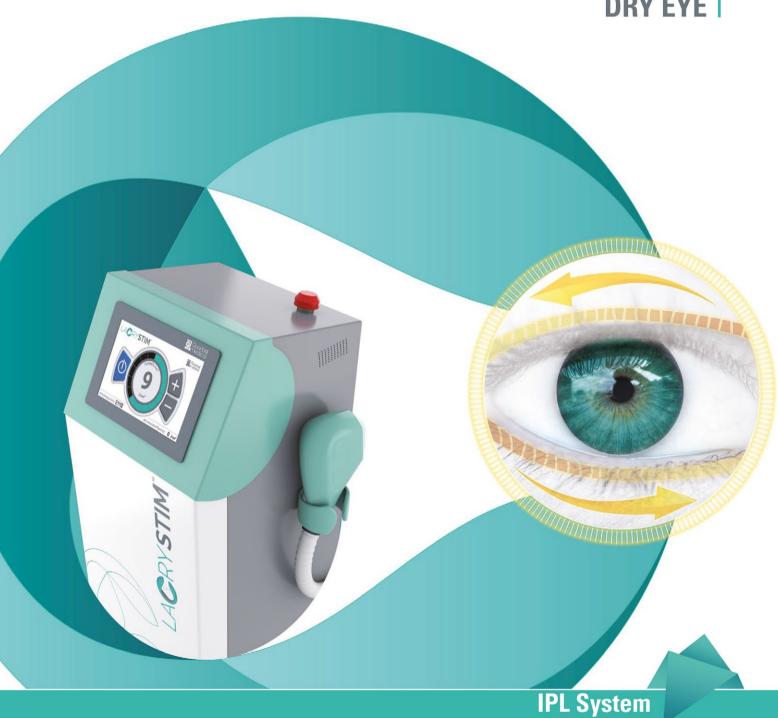
LACRYSTIM

TREATMENT OF DRY EYE







Dry eye is a particularly common disease that affects the **health and well-being** of millions of people worldwide. **Meibomian gland dysfunction** (MGD) is the leading cause of dry eye syndrome, known as evaporative dry eye, because it causes excessive tear evaporation.

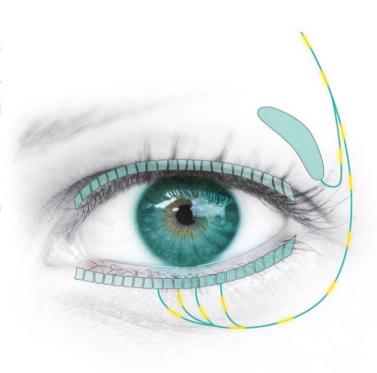
The **IPL LacryStim system** (Intense Pulsed Light) helps stimulate and reactivate the meibomian glands in order to treat dry eye. Intense Pulsed Light technology is one of a series of innovative technologies **acknowledged in the DEWS II Report**.

TREATS THE CAUSES OF DRY EYE OPTIMISES LONG-TERMS RESULTS.

MECHANISMS OF ACTION

Several studies detail the mechanisms of action of IPL systems:

- Neurostimulation of the parasympathetic nerve pathways [1,2]. Tear production is stimulated by the nervous system, via the parasympathetic nerve [3], which is linked to both the lacrimal gland [3,4] and the meibomian glands [3,5].
- Faster meibomian gland metabolism [1,2,3,4,5].
- Increased meibum expression due to heat [6].
- Small vessel coagulation: acts against inflammation of the skin (rosacea) and eyelids (blepharitis) [7,8,9].
- Reduces Demodex mites



■ CLINICAL RESULTS

The expected results of IPL treatment may include [6]:

- Improved tear film quality
- Patient-reported improvement in the following symptoms: dryness, sensation of foreign body in the eye, itching, burning, eye fatigue, blurred vision, sensitivity to light, watery eyes, impaired secretion, pain.
- Additional effects of IPL treatment may be observed:
- Pain relief
- Anti-inflammatory action (blepharitis, conjunctivitis, rosacea)
- Reduction in inflammatory markers (cytokines) in the tears [10]
- Antimicrobial action (bacteria and Demodex mites).

IPL System

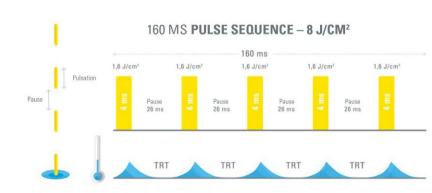
■ **LIGHT** SPECTRUM

- An IPL device is a generator of polychromatic intense pulsed light.
- The LacryStim light spectrum extends from 610 nm to 1200 nm.
- LacryStim uses a 610 nm filter that blocks UVA, UVB and UVC rays.
- Thanks to this 610 nm filter:
 - The melanin in the skin absorbs less light [11]
 - No phototyping is required
 - All types of skin can be treated, including black skin (Fitzpatrick scale phototype VI).



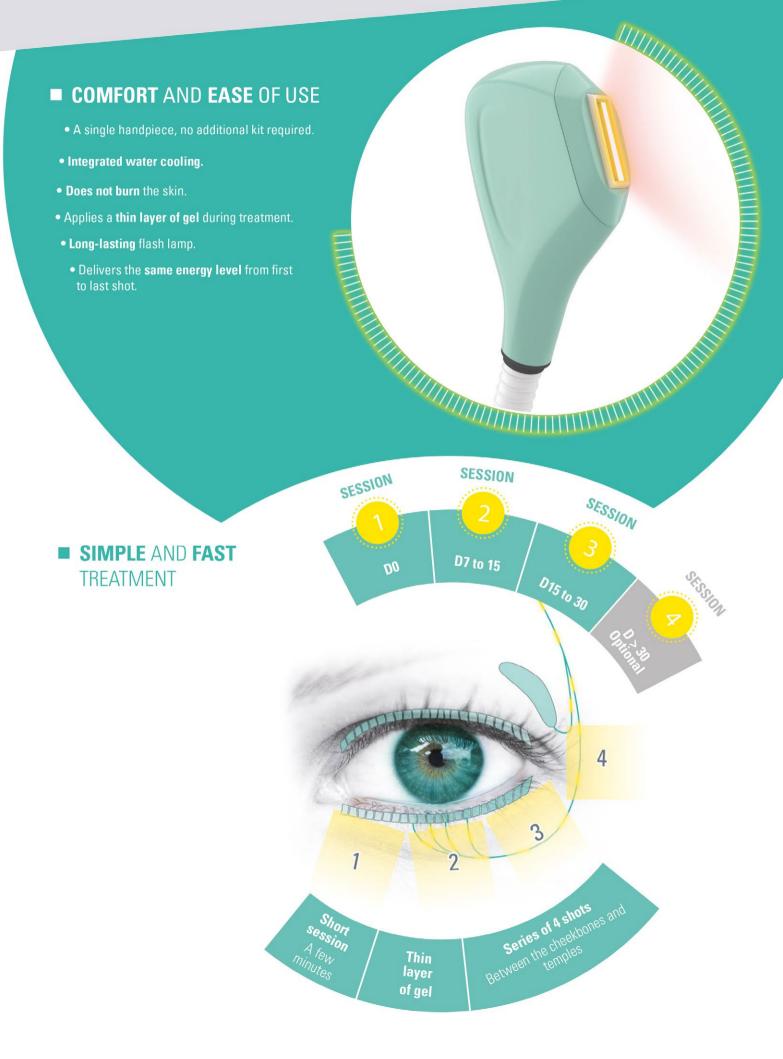
SETTINGS AND PULSE SEQUENCE

- The total energy is between 8 and 12 J/cm² and is delivered in a sequence of pulses.
- The time between each pulse respects the thermal relaxation time (TRT) of the skin, thus limiting:
 - The increase in tissue temperature
 - Thermal damage to the skin
 - Inflammatory reactions
 - The phototyping required.



A SAFE AND EFFECTIVE TREATMENT FOR ALL SKIN TYPES





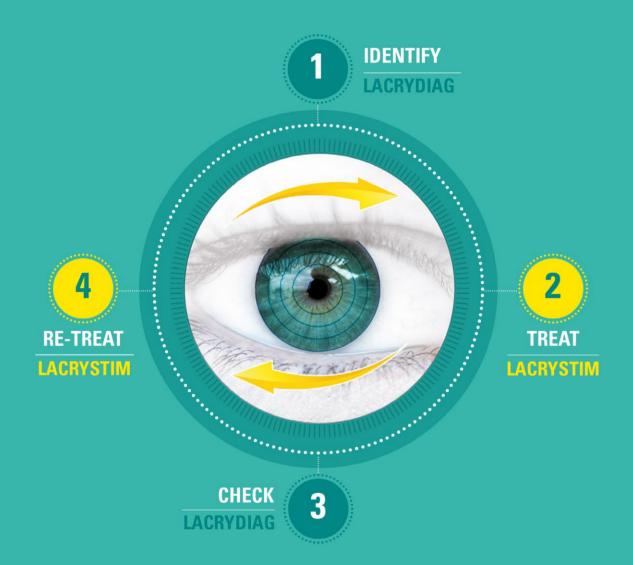


DIAGNOSIS LACRYDIAG

TREATMENT LACRYSTIM

IPL System

Eye surface analyser





ADDED VALUE FOR YOUR CLINICAL PRACTICE

- Extend your clinical offering from diagnosis to treatment.
- Diagnose and treat the cause of dry eye earlier.
- · Offer effective and lasting IPL treatment.
- · Optimise post-surgical results by diagnosing and treating before surgery (refractive, cataract).
- Improve the compliance of patients under topical treatment for glaucoma.



IMPROVED COMFORT FOR YOUR PATIENTS

- Perform a complete, fast contactless examination.
- Offer your patients painless and effective IPL treatment (< 5 min).
- Provide evidence of diagnosis and IPL treatment results.
- Improve patient care.
- Ensure patient satisfaction from the 1st IPL treatment.

LACRYSTIM



TECHNICAL SPECIFICATIONS

Technology IPL (Intense Pulsed Light) Wavelength 610 - 1200 nm Energy 1 to 14 J/cm2

Dimensions 580 (H) x 275 (W) x 280 (D) mm

Weight

610 nm, anti UVA, UVB and UVC filter Filter

Cooling system

Replace water every 7000 shots

Flash lamp Xenon lamp 230 VAC or 110 VAC Power supply Temperature for use +5°C to +35°C Treatment duration 3 to 4 sessions

Operator safety glasses, patient eyeshields Accessories

CE marking Class IIb medical device

The company reserves the right to modify the technical specifications without prior warning.
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www.quantel-medical.com

LacryStim IPL is a class IIb medical device designed by CSB for QUANTEL MEDICAL and compliance assessed by IMQ CE 0051.



ISO9001: 2015 - ISO13485: 2016

Headquarters

Quantel Medical 11, rue du Bois Joli - CS40015 63808 Cournon d'Auvergne - FRANCE Tel: +33 (0)4 73 745 745 Fax: +33 (0)4 73 745 700 Email: contact@quantel-medical.fr

Quantel Medical USA 2313 Ridge Road Suite 105A Rockwall, TX 75087 Tel: +1 877 782 6835 Fax: +1 406 522 2005 E-mail: info@quantelmedical.com Quantel Medical Polska ul. Racławicka 93 02-634 Warszawa - POLAND Tel: +48 22 5210111

Email: info@quantel-medical.pl

Representative Offices Thailand, Chiang Mai Brazil, Rio De Janeiro