



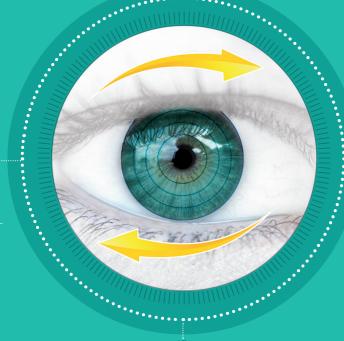
## **DIAGNOSIS** Eye surface analyser

## TREATMENT **LACRYSTIM**

IPL System







**TREAT LACRYSTIM** 

CHECK **LACRYDIAG** 





- 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.



## TECHNICAL SPECIFICATIONS

IPL (Intense Pulsed Light) 610 – 1200 nm 1 to 14 J/cm2 580 (H) x 275 (W) x 280 (D) mm 610 nm, anti UVA, UVB and UVC filter

Cooling system Replace water every 7000 shots

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

Operator safety glasses, patient eyeshields CE marking Class IIb medical device

#### BIBLIOGRAPHY

#### 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.



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**TREATMENT** OF **DRY EYE** 







# LACRYSTIM

**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.

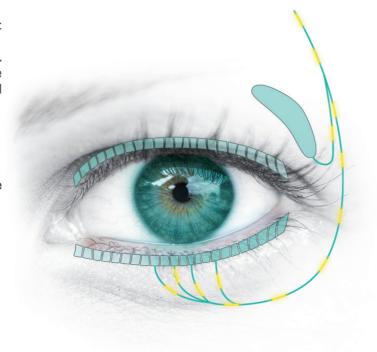
The **IPL LacryStim system** (Intense Pulsed Light) helps stimulate and reactivate the meibomian glands in order to treat dry eye. Intense Pulsed Light technology is one of a series of innovative technologies **acknowledged in the DEWS II Report.** 

#### 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 reli
- Anti-inflammatory action (blepharitis, conjunctivitis, rosacea)
- Reduction in inflammatory markers (cytokines) in the tears [10]
- Antimicrobial action (bacteria and Demodex mites).

## IPL System

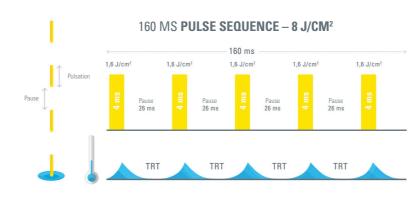
#### ■ **LIGHT** SPECTRUM

- 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



#### ■ **COMFORT** AND **EASE** OF USE

- A single handpiece, no additional kit required.
- Integrated water cooling.
- Does not burn the skin.
- Applies a thin layer of gel during treatment.
- Long-lasting flash lamp.
- Delivers the **same energy level** from first to last shot.



■ **SIMPLE** AND **FAST** TREATMENT

