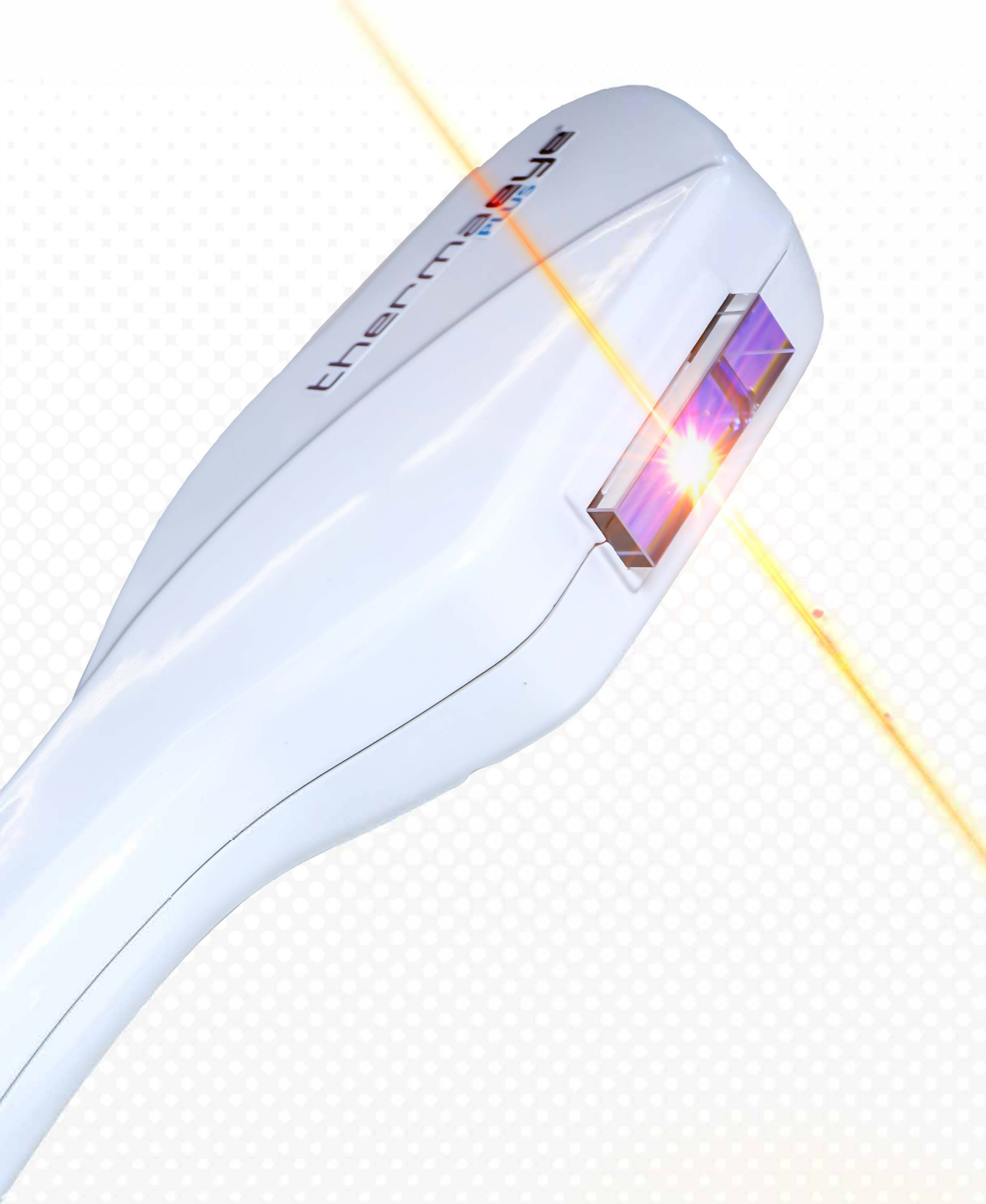




thermaeye<sup>®</sup>  
PLUS

# Thinking about your patients

## Thinking about your patients

Recent conclusion by the prestigious MGD workshop report that MGD is likely the leading cause of all dry eye is supported by a large body of evidence-based medicine reporting the compromise to meibomian gland function negatively impacts all aspects of ocular surface health.

Intense Pulsed Light therapy appear as a safe and efficient threatment in relieving simptoms and signs of DED-MGD eyes. No significant complications has been observed.

### Benefits

- V Vascular
- A Anti – inflammatory
- A Anti – Microbial
- T Tissue regeneration

### Pathologies

- Rosacea
- Telangiectasia
- MGD
- Brown spots
- Wrinkles

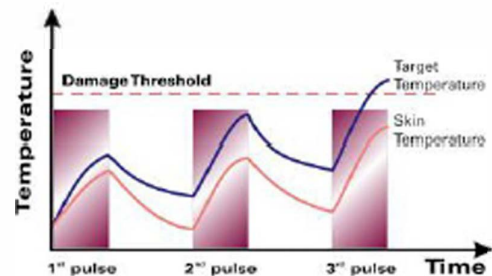


# Advanced IPL Technology

## Pulse Duration - TRT - Pulse Duration

### Fractionated pulse: security guarantee

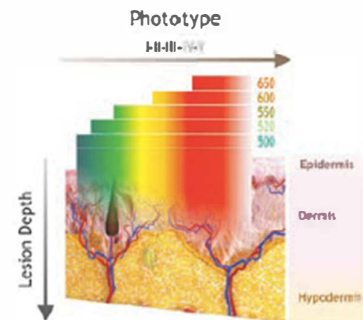
The pulse of ThermaeyePlus can be divided up to three pulses. The fractionated pulses allow to use higher fluences while protecting the skin. The Doctor can select the duration and energy of each individual pulse, and also set the interval. This intelligent technology protects the skin and prevents thermal damage.



## Reduced risk of thermal damage

The advanced integrated skin cooling system of the ThermaeyePlus hand piece prevents excessive temperature increase of the epidermis.

This prevents unwanted side effects on the skin and makes the treatment more tolerable and safety for the patients.



The interaction of the different wavelengths and skin layers determines the choice of the appropriate filter based on the treatment and patient's phototype.

**“Maximum comfort for the patient  
Maximum safety for the doctor”**

## Incorporated Power meter

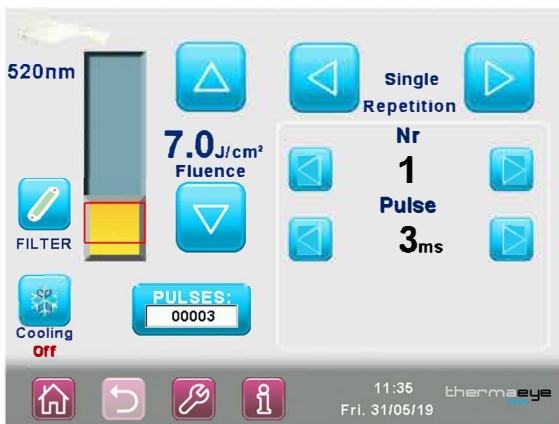
ThermaeyePlus features a control tool that is extremely useful in daily practice. The integrated power meter constantly monitors the number of pulses emitted, the real effectiveness of each individual pulse, and the correct operation of the handpiece. By allowing doctors and operators to control the effectiveness and correctness of the energy emitted. Medical studios can thus avoid undue and uncontrolled expenditure: the power meter makes it possible to test the handpiece at all times.



# Light, Versatile and User-Friendly

ThermaeyePlus equips interchangeable filters. It is not necessary to change the head: just by replacing the filters, in a few seconds the doctor selects the wavelength that best adapts to the application and pathology of the patient.

The different wavelengths available (500nm, 520nm, 550nm, 600nm, 650nm and SA) in combination with the pulsed technology ensure greater absorption of light by melanin, allowing to work even in the darkest phototypes.



## User-friendly Software

ThermaeyePlus has a software designed exclusively for the treatment of meibomian glands and other pathologies associated with dry eye

6

Interchangeable filters, with different spectrum of emission, for a single pulsed light handpiece. It takes only a moment to adjust the emission to the specific application and the patient's phototype.

11

Adjustable levels for contact skin-cooling system integrated in the handpiece.

16<sub>Kg</sub>

Compact technology. The reduced size of ThermaeyePlus makes it easy to move around.

700<sub>gr</sub>

Lighweight and compact handpiece for effortless treatment

Power  
Meter

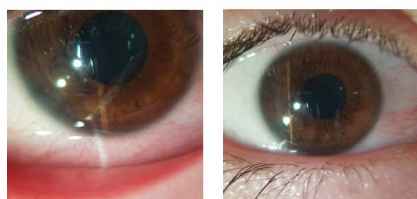
A power meter incorporated in the system monitors the correct operation of the handpiece at all times.

# Expanding your Practice

## Multiple Filters-Larger Scope



Courtesy of: P. Campolmi, MD - G. Cannarozzo, MD - P. Bonan, MD.  
Florence, Italy. (Photos using polarized light)



Courtesy of Dr. Carlos Verges



Courtesy of: A. Pulvirenti, MD - Catania, Italy.

**520nm.** This filter is used to perform treatments involving vascular lesions and skin pigmentation defects of patients presenting with up to and including Fitzpatrick grade III skin type.

**650 nm.** This filter is ideal for treating MGD in all skin types up to Fitzpatrick grade VI skin type.

**SA-800 nm.** This filter has been shown to stimulate the production of new collagen, improving the tone, texture and luminosity of the skin, giving it a lifting effect without the need for more invasive treatments.

## Care for your patients

IPL helps improve results with each treatment



## Results

Many studies confirm IPL treatment achieves a statistically significant improvement in the relief of the clinical signs and symptoms of patients affected by **MGD** related to **DED**. Maximum benefit usually occurs after a few IPL treatment sessions.

The high versatility of **ThermaeyePlus** device allows users to set customised treatment parameters according to the patient's presenting characteristics. This assists with achieving maximum outcomes, efficacy and tolerability.



## Technical data

|                         |                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------|
| Source                  | Xe Lamp                                                                                          |
| Spectrum of Emission    | 500 — 1200 nm / 520 — 1200 nm<br>550 — 1200nm / 600 — 1200nm<br>650 — 1200 nm / SA 800 — 1200 nm |
| Pulse Width             | From 3 to 8 ms                                                                                   |
| Delay Between Pulses    | From 5 to 50 ms                                                                                  |
| Number of Pulses        | From 1 to 3                                                                                      |
| Repetition Rate         | 2 s (min.)                                                                                       |
| Treatment Area          | 48 mm x 13 mm (6.2 cm <sup>2</sup> )                                                             |
| Fluence                 | Up to 25 J/cm <sup>2</sup>                                                                       |
| Integrated Skin Cooling | Contact Peltier system                                                                           |
| Emission Control        | Footswitch and/or Fingerswitch                                                                   |
| Electrical Requirements | 230Vac / 10A (máx) 50-60 Hz                                                                      |
| Dimensions & Weight     | 22 cm (H), 45 cm (D), 37 cm (W), 16 Kg                                                           |

## Bibliography

- 1- Prospective evaluation of intense pulsed light and meibomian gland expression efficacy on relieving signs and symptoms of dry eye disease due to meibomian gland dysfunction. Steven J Dell, Ronald N Gaster, Sheila C Barbarino, Derek N Cunningham. Clinical of Ophthalmology, 2 May 2017
- 3- Stimulates circulation and improves inflammation. Ceylan 2004 and Enwemeka 2004.
- 4- Microcoagulation of telangiectasias of palpebral edge and neovascularization surrounding the meibomian glands. Jiang 2016
- 5- Direct antibacterial effect and indirect antibacterial effect by stimulating the emergence of macrophages and bacterial phagocytic activity. Nusbaum 2002, Plaja 2003.
- 6- The role of intense pulsed light (IPL) in the treatment of Meibomian Gland Dysfunction (MGD). Tenna Stefania, Turco Piergiorgio, Brunetti Beniamino, Anotonio DiZazzo, Machi Jacobo, Bonini Stefano, Persichetti Paolo. European Journal of Plastic Surgery 22 May 2019

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