

# SKIN regeneration



  
CESARE  
QUARANTA

  
TECHNOLOGY  
OF EXCELLENCE  
MADE IN ITALY

HPL Quantum  
Energy Generator

INNOVATIVE TECHNOLOGIES FOR ADVANCED BEAUTY CARE



# HPL Quantum Energy Generator

The HPL quantum energy-generating photobiomodulation device is **well-tolerated, safe and non-invasive**. It is used in the beauty care field to **treat photo-ageing** as it helps **reduce skin laxity, improve skin texture and stimulate tissue tone**, triggering the **neosynthesis of collagen by fibroblasts to smooth superficial wrinkles**.

Quantum energy also complements other commonly used methods, such as radio frequency, electroporation, pulsed light and microdermabrasion.



An advanced professional beauty care device for facial and body treatments, HPL comes with **three handpieces with different wavelengths** to effectively treat the widest range of imperfections.

All accessories fit conveniently into the attractive, light and portable carry case.

## HOW IT WORKS

The HPL handpieces use photobiomodulation (PBM) to naturally stimulate cellular metabolism in the target tissue. This process enhances and **speeds up cellular renewal and the production of new collagen and elastin**. By activating the respiratory chain of the mitochondria, **quantum photobiostimulation** has a photobiological effect on cells, triggering a cascade of biochemical reactions. Specifically, cellular metabolism takes place in those cells which are more sensitive to light via the respiratory chain. Because sensitivity to irradiation and the capacity of activation depend on the physiological condition of the irradiated cells, cells with reduced oxidation are more reactive to irradiation.





## BENEFITS OF THE TREATMENT

- Minimal side effects
- Painless
- Suitable for all skin phototypes
- Can be used at all times of the year
- No maintenance costs
- Less expensive than other treatments (laser, radio frequency)
- Versatility: able to treat a wide range of patients and conditions

## OBJECTIVES

The chart to the right shows the wide range of possibilities and benefits offered by HPL. The chart shows which handpiece to use for specific facial and/or bodily imperfections/blemishes. The handpieces emit different colours of light and some conditions can be treated with 2 or more handpieces, offering the **possibility of alternating the handpieces over the treatment cycle or using both of them during the same treatment to maximise results.**



## TREATABLE AREAS

- |                   |                   |                 |
|-------------------|-------------------|-----------------|
| ■ FOREHEAD        | ■ DOUBLE CHIN     | ■ LEGS          |
| ■ EYELIDS         | ■ LIP LINES       | ■ UPPER STOMACH |
| ■ UNDER-EYE AREA  | ■ NECK            | ■ OUTER THIGH   |
| ■ CHEEKS          | ■ BUTTOCKS        |                 |
| ■ FACIAL CONTOURS | ■ BACKS OF THIGHS |                 |

## EFFECTS

The greater collagen production by the fibroblasts and the increased cellular turnover at epidermal level are a result of the interaction between the irradiation parameters of the handpieces.

Thanks to the triple action and synergies of its handpieces, HPL is suitable for all bio-vitalising and bio-regenerating treatments:

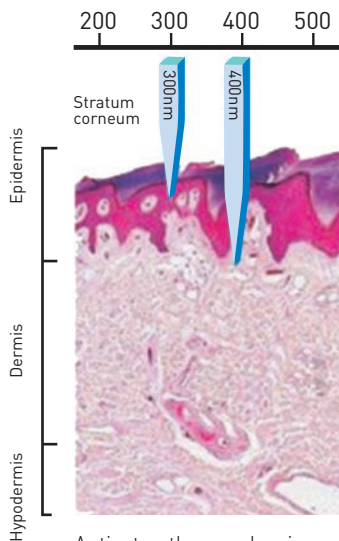
- Treatment of imperfections
- Treatment of hyperpigmentation
- Photorejuvenation
- Treatment of skin laxity

SKIN IMPERFECTIONS/ BLEMISHES	HANDPIECE
SUPERFICIAL WRINKLES	RED
DEEP WRINKLES	IR
SYNERGIC TREATMENT WITH BEAUTY CARE TECHNOLOGIES	RED
BLEMISHES	BLUE, RED
SYNERGIC TREATMENT WITH COSMETIC PRODUCTS (depending on the objective/aim)	IR, BLUE, RED
HYPERPIGMENTATION	BLUE
PUFFY EYES	RED
WATER RETENTION	RED
DOUBLE CHIN	RED
STRETCH MARK PREVENTION	IR
LIP LINES	RED, IR
VARIOUS TYPES OF WRINKLES	IR, RED
SUN DAMAGE	IR, RED
SKIN LAXITY	IR, RED
IMPROVEMENT OF SKIN TONE	IR, BLUE, RED

# Interaction of the electromagnetic waves with the tissues

TREAT SKIN BLEMISHES IN A SAFE, FAST AND NON-INVASIVE MANNER BY STIMULATING THE SKIN'S NATURAL REGENERATION

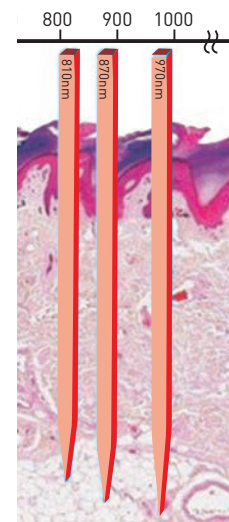
The interaction between the energy generator and the tissue depends on the irradiation parameters: the dosage, treatment time, treatment method (pulsed or continuous), and the frequency and number of treatments. Scientific studies have shown that many skin cells have the ability to absorb light of different wavelengths. Accordingly, HPL handpieces are able to treat a wide range of skin imperfections by harnessing the properties of quantum energy generators. Photobiomodulation (PBM) treatment involves the natural stimulation of the target area so that the cell can naturally correct its metabolism. The quantum energy produced stimulates cell renewal and the production of new collagen, while the wavelength selected enables the various skin target areas to be reached and treated.



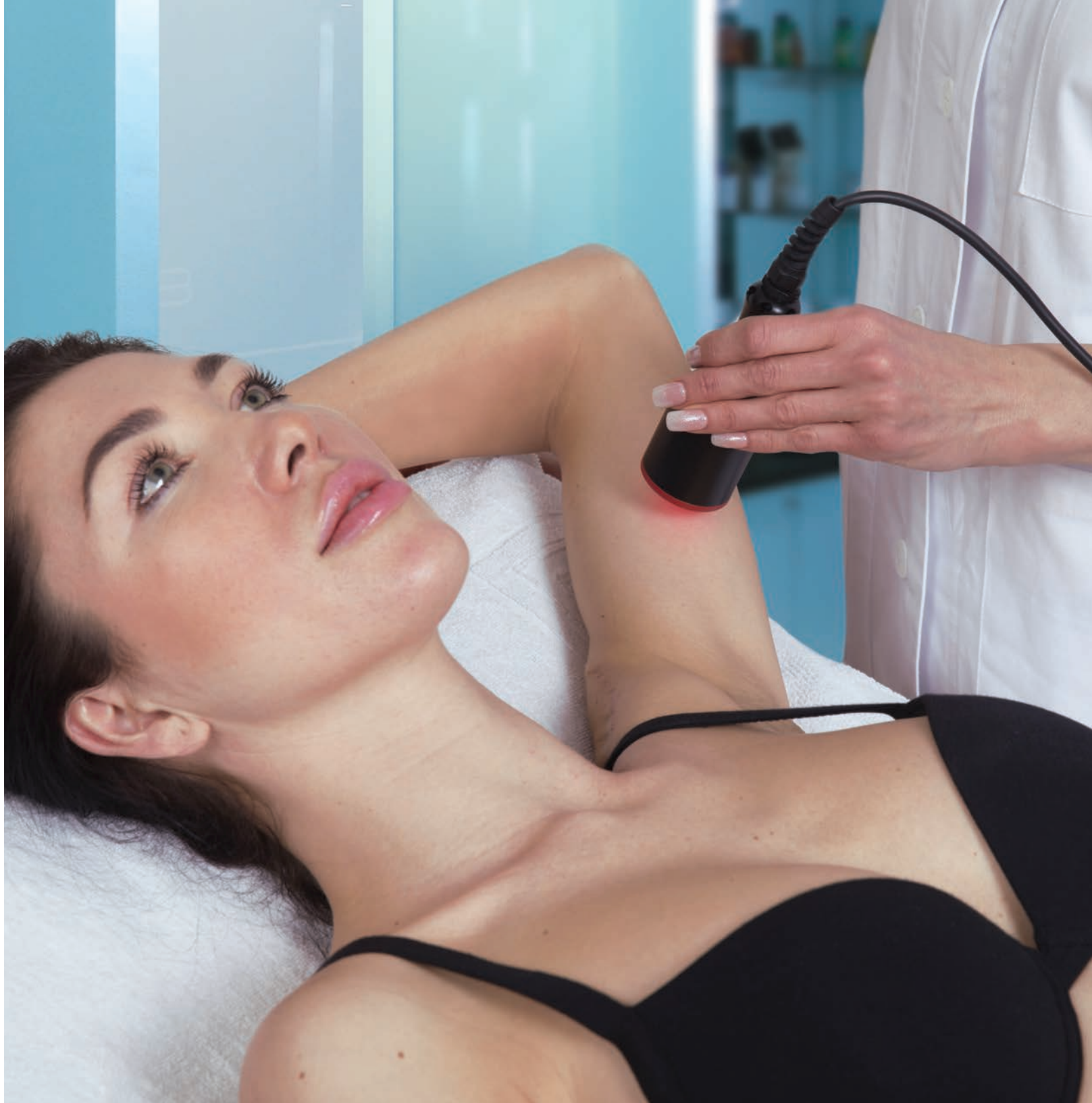
Activates the mechanisms of the dermis and epidermis, reducing damage caused by acne, dermatitis and imperfections.



Stimulates the production of new collagen and elastin. Red light penetrates deeply, triggering a photorejuvenation process of fine lines and improving skin texture.



Stimulates cellular regrowth and skin repair mechanisms.



# Quantum energy for visible, long-lasting results

NATURALLY STIMULATES  
THE PRODUCTION OF COLLAGEN



## DERMA-PHOTOREJUVENATION REDUCTION OF FINE LINES TISSUE TONING

HPL stimulates cellular activity to facilitate a range of benefits: helping damaged cells to repair themselves and stimulating the production of collagen and elastin. The skin gradually takes on a visibly younger appearance with **long-lasting results, with improved skin tissue elasticity and compactness.**

HPL means it is now **possible to successfully treat the signs of ageing and reduce skin damage caused by dermatitis and/or acne**



## TREATMENT OF CELLULITE

The results of irradiation treatment is a visible reduction in cellulite: the **skin appears smooth and uniform.**

## TREATMENT TIMES

MAXIMUM TREATMENT TIMES: **30 MINUTES**

FOR SMALL AREAS

(EYELIDS, BAGS UNDER THE EYES, ETC.): **MAX 15 MINUTES**





AFTER 5 TREATMENTS



AFTER 6 TREATMENTS



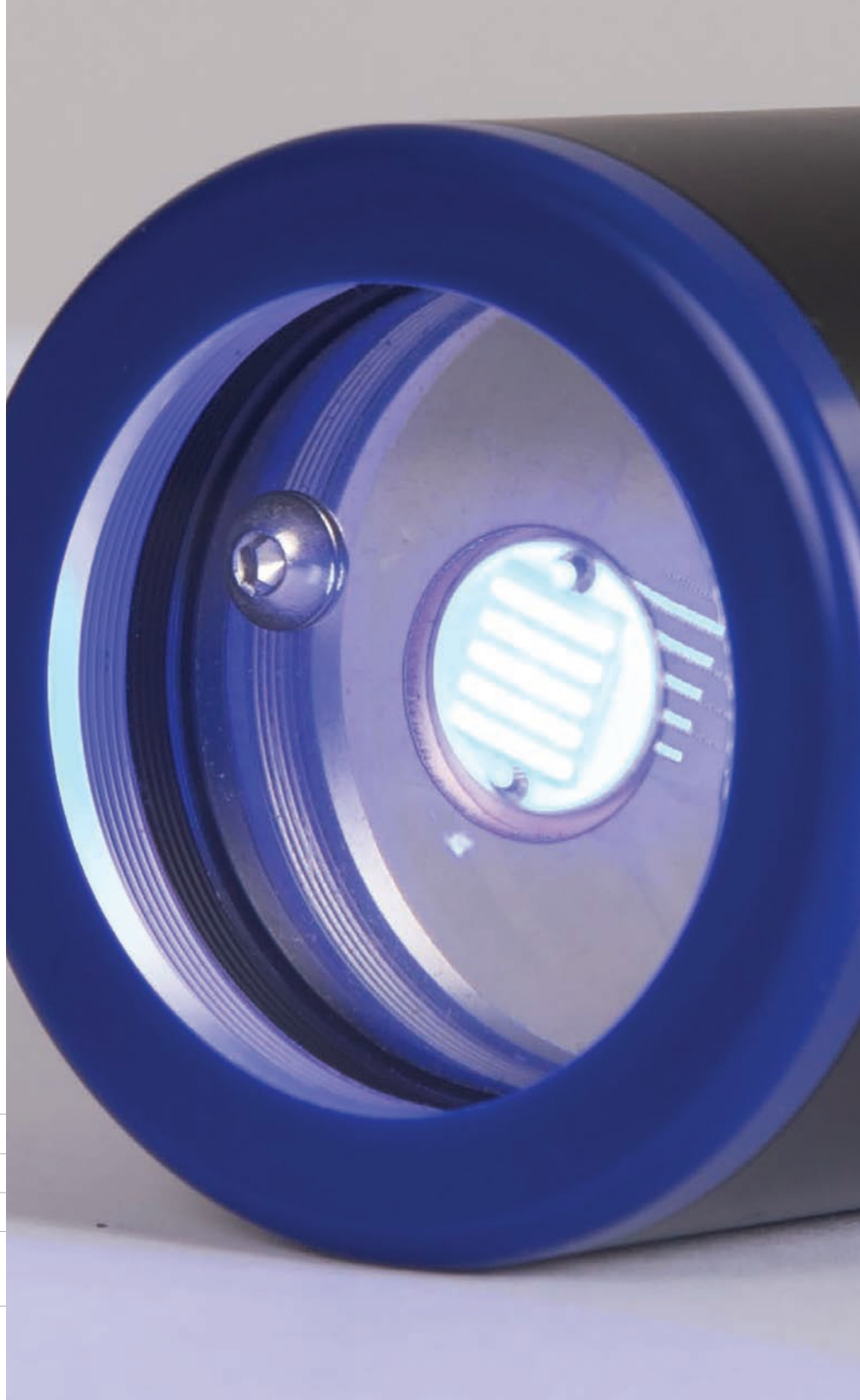
AFTER 6 TREATMENTS



# HPL

## TECHNICAL DATA

WAVELENGTH	BLUE 450 nm
WAVELENGTH	RED 670 nm
WAVELENGTH	INFRARED 870 nm
POWER SUPPLY	220 V - 50/60 Hz



# Certified electro-medical quality



Cesare Quaranta is an Italian company that designs and produces electro-medical technologies.

The company has two ISO certifications:

## ISO 9001:2015:

Design, manufacture, service and placing on the market of electromedical devices for dermatology and aesthetic medicine. Design, manufacture, service and placing on the market of electronic equipment for the aesthetic sector. Marketing and sale of cosmetic products.

## ISO 13485:2016:

Design, manufacture service and placing on the market of electromedical devices for dermatology and aesthetic medicine.

All devices are produced in our laboratories in Chieri (Turin) using state-of-the-art tools and undergo rigorous testing.



The manufacturer reserves the right to make technical and design changes to improve the product without prior notice

  
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Q U A R A N T A

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