

BIOPTRON[®] 
LIGHT THERAPY SYSTEM By Zepter Group

www.bioptron.com



Fight the ageing process

BIOPTRON ANTI-AGEING LIGHT

Healthy skin is beautiful skin

- Effective • Safe • Easy-to-use • No side effects



LEADERS IN LIGHT THERAPY

BIOPTRON Medical Light –
made in Switzerland by Zepter.


INTERNATIONAL
LIVE BETTER • LIVE LONGER

www.zepter.com

BIOPTRON: THE FIRST CHOICE IN LIGHT THERAPY

Leading edge Swiss light technology with proven clinical benefits:

- Clinically proven efficacy
- Can be used on its own or in combination therapy
- Recommended by dermatologists and other medical professionals
- Approved in more than 60 countries worldwide, including Europe, the USA and Australia
- Also clinically tested and certified for the medical treatment of a broad range of health conditions

● **Smart** ● **User-friendly** ● **Painless**

Designed to heal and rejuvenate damaged and ageing tissue

BIOPTRON Light Therapy System has been developed to provide optimal penetration of light to the different layers of the skin. This allows for maximum cell biostimulation and accelerated healing of damaged tissue.

BIOPTRON Light is:

- **Polychromatic** – one of the broadest wavelength ranges (480–3400 nm) of any light therapy device – allows a wide therapeutic application while excluding ultraviolet (UV) light, which can be harmful to cells and tissues
- **Highly polarised** – (up to 95%) improves light penetration to effectively reach damaged tissues
- **Incoherent** – provides a safe, non-invasive, effective healing process
- **Low energy** – allows a consistent, steady dose (2.4 J/cm² per minute) of light to stimulate effective healing without side effects

HOW DOES BIOPTRON LIGHT THERAPY FIGHT THE AGEING PROCESS?

BIOPTRON Light Therapy is a medical light treatment scientifically proven to enhance the anti-ageing effects of cosmetic products & procedures

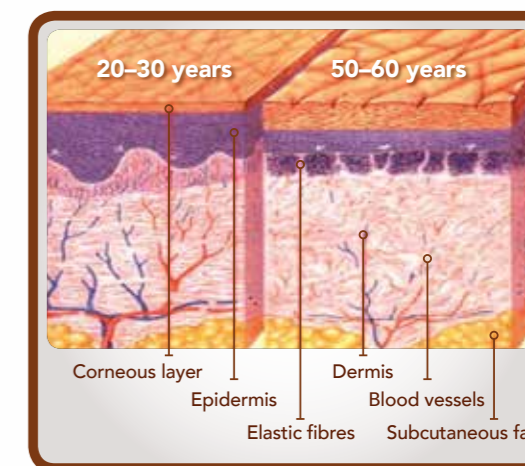
An innovative medical technology that effectively reverses the major signs of skin ageing

- Reduces fine lines and wrinkles
- Rejuvenates and improves rough texture for a glowing and smooth skin
- Fights dullness for a radiant complexion
- Regenerates and firms for visibly younger-looking skin
- Healthy and shiny hair

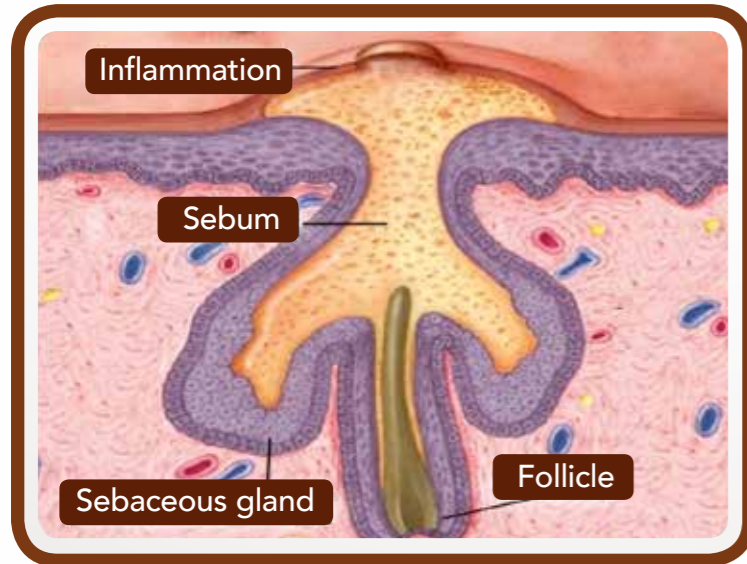
BIOPTRON Light Therapy stimulates faster skin healing without pain and scarring¹⁻⁴

The medical light spectrum provided by BIOPTRON Light Therapy triggers a range of beneficial processes in the skin:

- **Increased microcirculation** – 590 nm and 840 nm light stimulates the formation of new blood vessels; 900 nm light encourages peripheral vasodilation, which can improve skin blood flow²
- **Increased cell activity** – 633/640 nm light promotes the production of adenosine triphosphate (ATP; an energy transfer molecule in cells); the resultant increased cell activity promotes skin repair and regeneration
- **Increased skin hydration** – 590 nm light helps the skin retain water and maintain elasticity³
- **Accelerated collagen synthesis** – 660 nm light stimulates fibroblasts to increase collagen production, which helps tighten skin and reduce the signs of ageing⁴
- **Increased tissue repair rate** – 830 nm light stimulates mast cells to release proteins involved in tissue repair⁴
- **A boosted immune system** – wavelengths greater than 400 nm penetrate epidermal and dermal layers of the skin and interact with lymphocytes to promote skin defence and repair.⁵⁻⁹



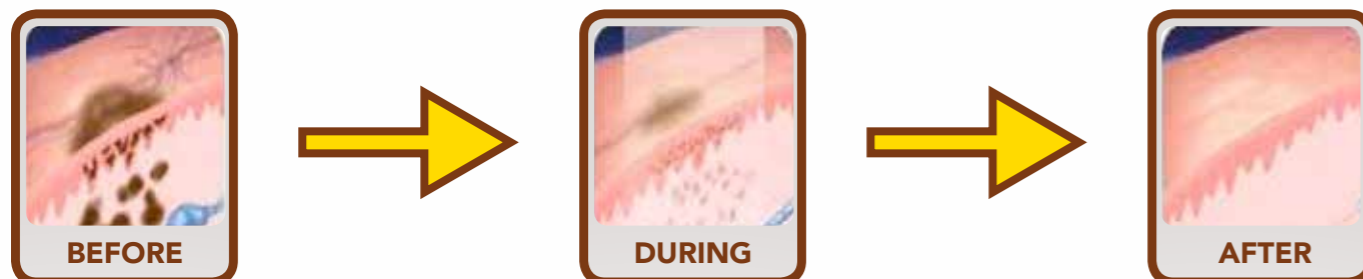
Prevents and clears Acne



BIOPTRON decreases inflammation and improves immunological factors related to acne without scarring.¹⁰ Furthermore, blue light has been clinically proven to kill acne-causing *P. acnes* bacteria, clearing existing blemishes and preventing future outbreaks. There is no physical contact between the treated area and BIOPTRON, making it a comfortable, painless treatment that can be combined effectively with other therapies for rapid, visible, and long-lasting effects.

Evens Skin's Complexion

BIOPTRON Light Therapy (525 nm) targets and eventually eliminates melanosomes (the melanin-containing parts of skin cells). This process helps to restore an even complexion to the skin.



Reduces Cellulite

BIOPTRON Light Therapy increases microcirculation to reduce swelling and edema. Warming of the skin, generated by infrared portions of the BIOPTRON light spectrum, increases absorption of lotions and creams. BIOPTRON Light Therapy has been shown to enhance the activity of Swisso Logical Intensive Anti-cellulite Treatment, measured as a greater reduction in the Dermis-Hypodermis Junction Distance. BIOPTRON Light Therapy also increases collagen synthesis to further improve skin tone and appearance, reducing the appearance of orange-peel skin and contributing to a slimming effect.¹³



Reduces Dandruff and Hair Shedding



BIOPTRON Light Therapy stimulates the immune system and stabilises the production of keratinocytes. This minimises the occurrence of scaly, flaky patches and eliminates dryness of the scalp. In a study enrolling patients

concerned by either dandruff and dryness, or dull hair (n=5), the use of BIOPTRON Light Therapy* plus Swisso Logical shampoo and conditioner was associated with a visible reduction in dandruff (4/5 patients), and improved hair radiance (2/5 patients), after two months. Two months of BIOPTRON Light Therapy for 10 minutes daily, in combination with Swisso Logical shampoo and conditioner, led to a 60% reduction in hair shedding.^{10,11}

*Biopton PRO1 System

BIOPTRON LIGHT THERAPY CAN BE USED TO ENHANCE THE BENEFITS OF OTHER ANTI-AGEING AND COSMETIC TREATMENTS¹⁴

BIOPTRON Light Therapy has a strongly synergistic effect when used in combination with other anti-ageing treatments including:

- Mesotherapy
- Biorevitalisation
- Hyaluronic acid fillers, BOTOX® and collagen injections
- PRP (Platelet Rich Plasma) therapy
- Mesothreads and suspension threads
- Invasive peels
- Rollers

BIOPTRON supports anti-ageing procedures in two main ways:

- The broad light spectrum of BIOPTRON helps eliminate any redness, swelling and haematomas from the skin in the post procedure phase
- When used with other anti-ageing products BIOPTRON assures the full skin absorption and penetration of the product used



Improve the effect of cosmetic creams by using them in combination with BIOPTRON anti-ageing light (10 minutes daily). It's an easy, effective way to achieve healthy, glowing skin. BIOPTRON anti-ageing light is suitable for men and for women of any age, regardless of skin type.

BIOPTRON LIGHT THERAPY USED IN COMBINATION: CASE STUDIES



BIOPTRON Light Therapy supports the reversed signs of ageing when used in a regime of nappage (skin stimulation), PRP therapy, and linear and soft filling.



BIOPTRON Light Therapy in combination with mesotherapy gave a reduction in crow's feet wrinkles.

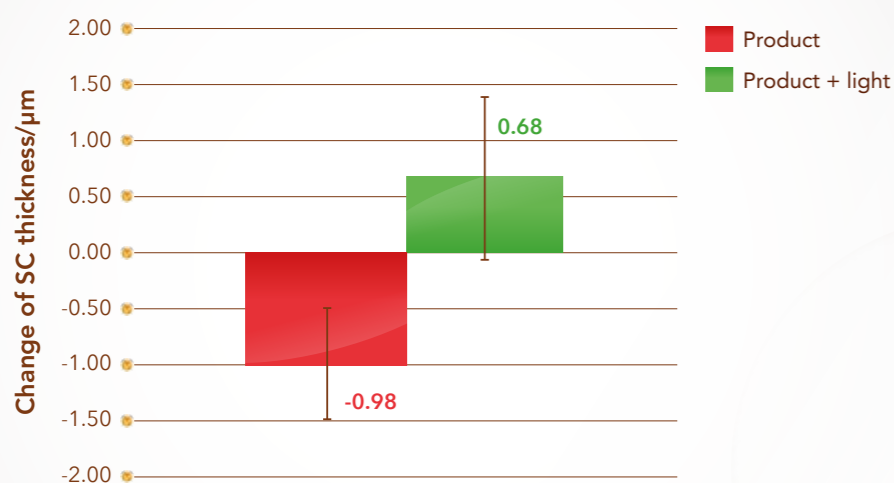


BIOPTRON Light Therapy with soft filling reduced dark circles under the eyes

BIOPTRON LIGHT THERAPY USED IN COMBINATION WITH SKIN LOTION INCREASES SKIN HYDRATION

The RAMAN study investigated the penetration of moisture into the stratum corneum induced by a 10-minute BIOPTRON Light Therapy illumination, acting on a cosmetically active ingredient formulated in an emulsion, placed on the skin in ten healthy volunteers.³

Change in skin thickness (t1-t0)*



*Increase in skin thickness shown in green; decrease in skin thickness shown in red.

- The additional illumination with BIOPTRON Light Therapy produced a statistically significant increase in the hydration of the stratum corneum, compared to skin receiving lotion alone (n=8).³
- Five patients (63%) showed an increase in stratum corneum thickness on the BIOPTRON Light Therapy-illuminated volar forearm, compared to the non-illuminated arm; this increase in skin thickness was measured in one patient to be 1.66 µm.³
- No intolerance was observed.³

BIOPTRON Light Therapy used in combination with cosmetic skin products gives firmer and smoother skin with fewer lines in just four weeks.



BIOPTRON COLOR LIGHT THERAPY

BIOPTRON Color Light Therapy is a way of using colors to enhance and restore our body's energy. It has also beneficial calming and anti - ageing effect on the skin and tissues.

Different Colors of BIOPTRON Color Light Therapy - can be used to achieve healthier looking skin, smoother skin, reduced pore size, more even skin tone, and reduced redness. Suitable for all skin types for men and women. BIOPTRON Color Light Therapy for healthy looking, luminous, strong and energized skin.

- Red:** Energy-depleted skin
- Orange:** Cellulite
- Yellow:** Wrinkles, fine lines
- Green:** Coarse-pored skin
- Indigo:** Scars and stretch marks
- Blue and Violet:** acne skin irritation, redness, itching



BIOPTRON LIGHT THERAPY ALSO HAS CLINICALLY PROVEN MEDICAL USES

Biopton Light Therapy is clinically tested and certified for the medical treatment of a broad range of medical conditions.

PAIN – RHEUMATOLOGY – PHYSIOTHERAPY – INJURIES

Rheumatology:

- Osteoarthritis
- Rheumatoid arthritis (chronic)
- Arthrosis

Physiotherapy:

- Lower back pain
- Shoulder and neck pain
- Carpal tunnel syndrome
- Scar tissue
- Musculoskeletal injuries

Sports medicine – soft tissue injuries of muscles, tendons and ligaments:

- Muscle spasm
- Sprains
- Strains
- Contusions
- Tendonitis
- Desmorrhexis and myorrhexis (ligament and muscle tears)
- Epicondylitis (tennis elbow)

WOUNDS

- Wounds due to traumas
- Burns
- Grafts
- Wounds after surgery
- Venous leg ulcers (stasis ulcers)
- Decubitus (pressure) sores
- Diabetic foot ulcers

DERMATOLOGICAL DISORDERS AND SKIN PROBLEMS

- Acne
- Acne rosacea
- Atopic dermatitis
- Psoriasis
- Herpes simplex and zoster
- Surface bacterial infections
- Mucosal lesions



FLAME BURN INJURY OF THE HAND



AFTER 21 DAYS OF LIGHT THERAPY



RESULT AFTER 9 MONTHS

BIOPTRON light therapy, combined with silicon pressure treatment, can help to reduce burn scars.

BIOPTRON LIGHT THERAPY SYSTEM EFFECTIVE, SAFE, NO SIDE EFFECTS

BIOPTRON Light Therapy is recommended by medical professionals and can be self-administred.

- No burning
- No pain
- No redness

- No irritation
- No bleaching
- No overdose

- Easy to use
- Maintance free
- Swiss made



BIOPTRON 2



BIOPTRON Pro1



BIOPTRON MedAll

References: 1. Biopton AG. Study CTE09B/R. Data on file; 2013. 2. Gehrke A. Influencing skin surface temperature using incoherent linear-emitted, polarised light from the BIOPTRON compact light therapy device. Data on file; 2013.3. Biopton AG. Study CTE202B/R. Data on file; 2013. 4. Bolton P, et al. The effect of polarized light on the release of growth factors from the U-937 macrophage-like cell line. Laser Therapy. 1992;33-7. 5. Zhevago NA, Samoilova KA. Modulation of proliferation of peripheral blood lymphocytes after irradiation of volunteers with polychromatic visible and infrared light. Tsitologija. 2004; 46(6):567-77. 6. Bogacheva ON, et al. Enhancement of fibroblast growth promoting activity of human blood after its irradiation in vivo (transcutaneously) and in vitro with visible and infrared polarized light. Tsitologija. 2004;a6:159-171. 7. Zhevago NA, et al. The regulatory effect of polychromatic (visible and infrared) light on human humoral immunity. Photochem Photobiol Sci. 2004;3:102-8. 8. Roberts JE. Update on the positive effects of light in humans. Photochem Photobiol. 2005;81:490-2. 9. Roberts JE. Visible light induced changes in the immune response through an eye-brain mechanism (photoneuroimmunology). J Photochem Photobiol B. 1995;29:3-15. 10. Coghill R. The Healing Energies of Light. 1st ed. North Clarendon (Vermont): Journey Editions; 2000. 11. Biopton AG. Study CTE150B/R. Data on file; 2013. 12. Biopton AG. Study CTE151B/ R. Data on file; 2013. 13. Biopton AG. Study CTE177B/ R. Data on file; 2013. 14. Biopton AG. Study 45B. Data on file; 2013.



Zepter International

Company Profile

Zepter International is a multi-branded multinational company that **produces, sells and distributes exclusive, high-quality consumer goods around the world**, principally through its own sales network as well as through high-end stores.

Together with the Zepter Finance Holding AG, a financial, banking and insurance company, it forms part of the Zepter Group.

Since its inception, Zepter International has established very high quality standards and has become an essential part of the lives of millions of people throughout the world.

A new presentation of Zepter products starts **every 10 seconds** somewhere in the world, as Zepter is present **on 5 continents in more than 60 countries**. Zepter International owns 7 factories in Switzerland, Germany and Italy and over **320,000 m² of business space in the world's top locations**. The past 25 years have been very successful as over **80,000.000 people have become satisfied users of Zepter products**.

Zepter's vision, superior quality, innovative products and unique sales system with over **100,000 employees and consultants worldwide** contribute to Zepter's success. Zepter takes pride in its superbly trained, highly motivated and inspired sales managers and consultants, **on a global mission of health and beauty**.

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ZEPTER AUSTRIA, *Vienna*

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ZEPTER BOSNIA AND HERZEGOVINA, *Sarajevo, Banja Luka*

ZEPTER BRAZIL, *São Paulo*

ZEPTER BULGARIA, *Sofia*

ZEPTER CANADA, *Toronto*

ZEPTER CROATIA, *Zagreb*

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