

ONE-TOUCH LIGHT THERAPY PROTOCOLS FOR:

*Clinical UNIT*

- ACUTE WOUNDS
- SWELLING
- ORAL PATHOLOGY
- CHRONIC WOUNDS
- TISSUE TRAUMA
- INFECTION

*HOME UNIT*

- WOUNDS
- ACNE
- JOINTS PAIN
- SINUSITIS
- MUSCLE PAIN
- WRINKLES

CLINICAL UNIT (643) & HOME UNIT (642)  
Patents Pending

**CE**  
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## CLINICAL UNIT OPERATING INSTRUCTIONS

### A NEW ERA IN HEALING

Thank you for purchasing the Photizo™ light therapy unit. We trust that you will enjoy the same level of Photizo™ healing power that so many other users have experienced. Photizo™ has been shown to stimulate cells and heal wounds and represents a new era in healing, and wound treatment. Photizo™ is lightweight, portable, and can work off batteries or mains power, thereby representing a new era in healing using light therapy. Accordingly, we are proud to be your new partner on the road to wellness.

### A SHORT HISTORY OF LIGHT THERAPY

The use of light therapy in treatment and healing is not a new concept – the Nobel prize was awarded to Niels Ryberg Finsen in 1903 for his work on red-light therapy in healing smallpox and lupus. During the 1960's, laser-based light therapy was used in many clinical and experimental settings and was responsible for great breakthroughs in non-invasive treatment of illnesses. A further breakthrough occurred in the 1990's when NASA began working on the use of light emitting diode (LED)-based light therapy units for use in wound healing in astronauts, as wounds take longer to heal in zero-gravity conditions. Their research paved the way for the Photizo™ light therapy device, which takes the best of currently available light therapy machines and combines them into one, easy to use, and portable healing system.

### WHY PHOTIZO™ WORKS SO WELL

During tissue damage, cellular integrity and function is compromised. Without a means to quickly and effectively reverse such damage on a *cellular* level, damaged cells will die (i.e. undergo necrosis).

A major drawback of almost all other light therapy units currently available, whether laser or LED-based, is that they are large, expensive, fragile, and very complex to use. Accordingly, only skilled clinicians and specialists can use such devices and obtain successful results in clinical settings only. Some light therapy units currently available produce light having a wide range of non-beneficial wavelengths (from 440 nm to 3500 nm), which impairs their efficacy due to the fact that the truly beneficial wavelengths make up a very small proportion of the total light emitted. Photizo™ only produces light of the most beneficial wavelengths, hence the shorter treatment times experienced by our users. Some of the protocols take only a minute to administer, once a day, with healing results seen within a day or two. This is not the case with other light therapy units, where healing is a slow process taking weeks or months. In addition, most currently available units have low power 10 to 40 milliwatt light diodes, while Photizo™ has a 100 mW diode. In certain applications, such as with this Clinical unit, a 400 mW probe is also made available to treat larger affected areas at a time. The use of such high power probes means that less treatment time is required to ensure the same efficacy.

There is, however, a limit to the amount of light therapy that can be administered in a treatment regimen before healing or tissue repair is impaired and Photizo™ provides optimal application of light therapy in each protocol for each wound type, for safe treatment once a day.

Photizo™ has been designed around the needs and feedback of our clients, who told us they needed a small, portable, easy to understand and simple to use light therapy unit, with a high power diode for quick and simple treatments. Accordingly, Photizo™ has been designed with the professional and the layman in mind, and is easy enough to be used by clinicians, wound care specialists, and assistants who have no prior training in light therapy.

Photizo™ incorporates built-in treatment protocols for some of the most common conditions which have been proven to be treatable by light therapy in the fields of healing and wound treatment. All the parameters necessary to treat, for example a chronic wound, have been incorporated in a single protocol button for such condition – merely by pressing the appropriate button, the whole protocol is run to treat the appropriate condition, taking a minute or two per application per day.

This is a major advance over other systems which are currently available, as the device can be operated intuitively by unsophisticated users with a minimum of training. This allows you to quickly yet safely treat your patients before tissue decay sets in, with treatment being safe and non-invasive. With no moving parts, Photizo™ is and remains the leader in reliability and performance. Photizo™ has worldwide patent applications to stop cheap imitations from causing damage to our customers and their patients.

Photizo™ makes use of a near-coherent light beam produced by a high intensity LED array. The probe is robust enough to survive most conditions, while the operational unit has been designed to be resistant to accidental spills. This device has been designed to withstand conditions in trauma units, and is a major distinguishing factor between Photizo™ and other laser or polarized light therapy devices, which tend to be fragile and break easily. In addition, the Photizo™ device is assembled on an ISO 9000 assembly line and has extensive product back-up and warranty maintenance. While most other light therapy devices have light sources which only last for 500 to 1000 hours, the Photizo™ diode can perform for up to 50,000 hours without a significant loss of output.

### **EFFECTS OF LIGHT THERAPY**

Any compromised cells, whether epithelial, dermal, nerve, mucosa, bone, or muscle cells, will benefit greatly from Photizo™ therapy. Increasing numbers of studies are being conducted on the effects of light therapy on cell growth and the regulation thereof. Light therapy using the Photizo™ device is non-carcinogenic (i.e. has not been shown to cause cancer), non-invasive, and has an analgesic and immune stimulatory effect during and after treatment. In addition, superior results have been obtained with this apparatus in wound healing, both in animals and in humans.

The effective penetration depth of the Photizo™ photon beam is approximately 12 mm (where 60% of the original dose, is still present in the tissues), so it is not suitable for treating deep internal conditions. In addition, Photizo™ must only be used on the outside surface of the body and not internally, except for the mouth, where it can be used to treat the conditions listed under the appropriate heading below.

#### **1. Photizo™ stimulates the production of ATP in the mitochondria**

ATP is the major carrier of energy in the cells and is made by the cell's power units, the mitochondria. Without ATP, all cellular functions cease, and an increase in ATP allows the cells to accept nutrients faster and to dispose of waste products by increasing the energy levels in the cell. ATP provides the chemical energy that drives the chemical reactions of the cell. ATP production is enhanced by light therapy, as light of a coherent, optimal wavelength energizes the cytochrome c structure, allowing it to donate electrons to the electron transport chain at a greater rate to increase ATP production.

#### **2. Photizo™ reverses cell death process and ensures cell repair**

Following injury, a cell quickly approaches a point of no return, after which cell death is a certainty. Photizo™ light therapy, if administered immediately, can reverse most such cell death processes by increasing ATP production.

#### **3. Cellular regeneration**

Once a cell has died, the body needs to make new cells to replace the compromised or damaged cells. Light therapy prevents the overproduction of scar tissue and ensures quicker (up to 250x) cellular regeneration. This is of major importance for accident victims to regain full functioning. This accelerated "replacement" effect is seen in all cell types. Once cells have been boosted with light therapy they can resume their normal functioning and make new blood vessels, nerve tissue, bone cells, cartilage, etc. Light therapy does not cause cellular overgrowth or cancer – cells are merely recharged to resume their normal functioning.

#### **4. Clearing of inflammation and increased lymphatic activity**

Local inflammation, although necessary, chokes a cell. Photizo™ lessens inflammation and ischemia, helping the cell to take up nutrients and oxygen from surrounding tissue and blood vessels. Light therapy relieves ischemia and stops cell "choking". Edema has two components i.e. a liquid part, which can be evacuated by the blood system and a proteinaceous component which is comprised of proteins which have to be evacuated by the lymphatic system. Research has shown that the lymph vessel diameter and the flow of the lymphatic system can be doubled with the use of light therapy. The venous and arterial diameters can also be increased. This means that both components of edema can be evacuated faster to reduce swelling.

#### **5. Increased immune system activity**

Near-infrared light has been shown to increase immune system functioning. The exact mechanism by which this occurs has not been elucidated, but several studies have shown a systemic effect in subjects on whom light therapy was used. This means that local treatment of a wound with Photizo has a general immune enhancing effect.

#### **6. Photizo™ increases blood supply**

Increases blood supply to areas by stimulating the formation of new capillaries and blood vessels to replace damaged ones. This speeds up the healing process by providing more oxygen and nutrients needed for healing to the damaged cells. It also accelerates waste and debris removals from the site of injury. Light therapy has a vasodilatory effect.

#### **7. Systemic effect and reduced excitability of nervous tissue**

Photizo™ assists in reducing the excitability of nerve tissue, thereby relieving pain. There is also a sharp increase in endorphins and serotonin, providing a further systemic pain-relieving and calming effect. This is of importance in acute and chronic pain relief.

#### **8. Photizo™ regulates collagen production**

Collagen is the most essential protein building block used to repair damaged tissues, and to replace old tissues. By increasing and regulating collagen production less scar tissue is formed. Photizo™ does not result in an overproduction of collagen – rather, it helps the cell produce optimal levels necessary for healing.

#### **RISKS AND SIDE EFFECTS**

Photizo™ cannot cause cancer – no mutational effects have been demonstrated in any medical or scientific literature to date. Photizo™ is different from other light therapy units which sometimes produce harmful ultraviolet (UV) light or other ionizing radiation which may cause cancer. The light produced by Photizo™ is non-ionizing and is at the opposite end of the light spectrum. LED light therapy has in fact been used in photodynamic therapy (PDT) to destroy cancerous growths when combined with photosensitive compounds.

Photizo™ is helpful in initiating, assisting, and promoting healing of the body, thus it can and should be used in combination with regular medical treatment. If you are treating large wounds which are resistant to light therapy healing, it may be that there is an underlying bacterial or fungal infection – light therapy alone will not work in such cases and must be complemented by conventional medical treatment.

#### **CONTRAINDICATIONS**

##### *Thyroid gland*

While there are no known side effects related to LED-based light therapy, the thyroid gland is a sensitive gland and very close to the skin surface, so treatment directly over the thyroid should preferably be avoided. A slight increase in thyroid activity has been shown in one report using LED light therapy. We suggest you place a light blocking fabric or plastic shield over the thyroid when

treating in or around this area.

*Can Photizo™ be used during pregnancy?*

The effects of Photizo™ have not been tested on pregnant women or animals. While the fetus cannot be negatively influenced by light, as the penetration depth of Photizo™ is only 12 mm, we would not recommend using Photizo™ on areas directly over to the developing fetus.

*Can Photizo™ be used on or by epilepsy sufferers?*

Some studies suggest that pulsed or strobed visible light at frequencies in the 5-10Hz ranges can cause epileptic attacks. Photizo™ does not pulse in the 5-10Hz range, but epileptics (like all other persons) should avoid looking directly at the light beam emitted from the probe for preventory measures.

*Can Photizo be used on children?*

No harmful effects have been demonstrated when treating growth plates in young children. Children can be treated safely with PHOTIZO™, provided the protocols are strictly adhered to.

*Can Photizo™ be used on or by cancer patients?*

Photizo™ is useful in treating many of the side effects of cancer treatment, especially oral mucositis, a painful side effect of radiation therapy.

*Can Photizo™ be used by or on diabetic patients?*

Yes, Photizo™ was designed originally for use in healing venous ulcers in diabetics. Diabetic patients having slow healing or non-healing wounds, and individuals suffering from loss of sensation in the hands or feet tend to benefit tremendously. However, it is important to treat wounds, cuts or scratches immediately following injury, to ensure quick healing and to lessen the risk of infection.

**TREATMENT USING PHOTIZO™**

Clean the transparent cap of the probe with surgical alcohol or surgical spirits before you commence treatment on any body part, especially prior to and following wound treatment, and certainly between patients.

If the area that you are applying the apparatus to is very large, it may require repeated re-application of a treatment protocol until the whole area been covered. An optional large power head is also available that can cover larger areas at the same time intervals.

The wound area should be clean and can be covered with a thin, sterile plastic sheet. Alternatively, the probe may be wrapped in clean cling-wrap plastic.

Hold the probe as close as possible to the area to be treated. Keep the probe at right angles to the wound during treatment.

In treating wounds, start at the outer edges of the wound and treat the edges first, and then proceed to treat the inner part of the wound.

On starting, select the desired protocol, select the start/stop button, position and keep the probe in that position until the light temporarily extinguishes followed by four beeps. Shift the probe to the next position (about 10-15 mm apart). Repeat until the whole wound or affected area has been treated. Treat once daily, until wound has healed. The doses administered by Photizo™ have been optimized for use once daily (or even once every two days), and more doses in a day will not be harmful, but may result in a delay in healing.

## STARTING OUT WITH PHOTIZO™

Although Photizo™ has been designed to be robust and dependable, you should follow the following instructions carefully to ensure optimal use of your Photizo™.

### CHARGER AND BATTERIES

1. Insert batteries – take care to insert the batteries the correct way around: + on + and – on –
2. Charge batteries by connecting charger to Photizo™ and mains cord to charger.
3. A red flashing light on the front panel indicates low batteries: recharge immediately.
4. A continuous red light on the front panel combined with a beep sound indicates flat batteries: recharge immediately.
5. A flashing red light on the back panel next to the charger connector indicates that the batteries are charging.
6. A constant red light next to the charger connector indicates that the batteries are fully charged.
7. Please note! Batteries will charge when Photizo™ is connected to the charger

### TREATMENT SET-UP

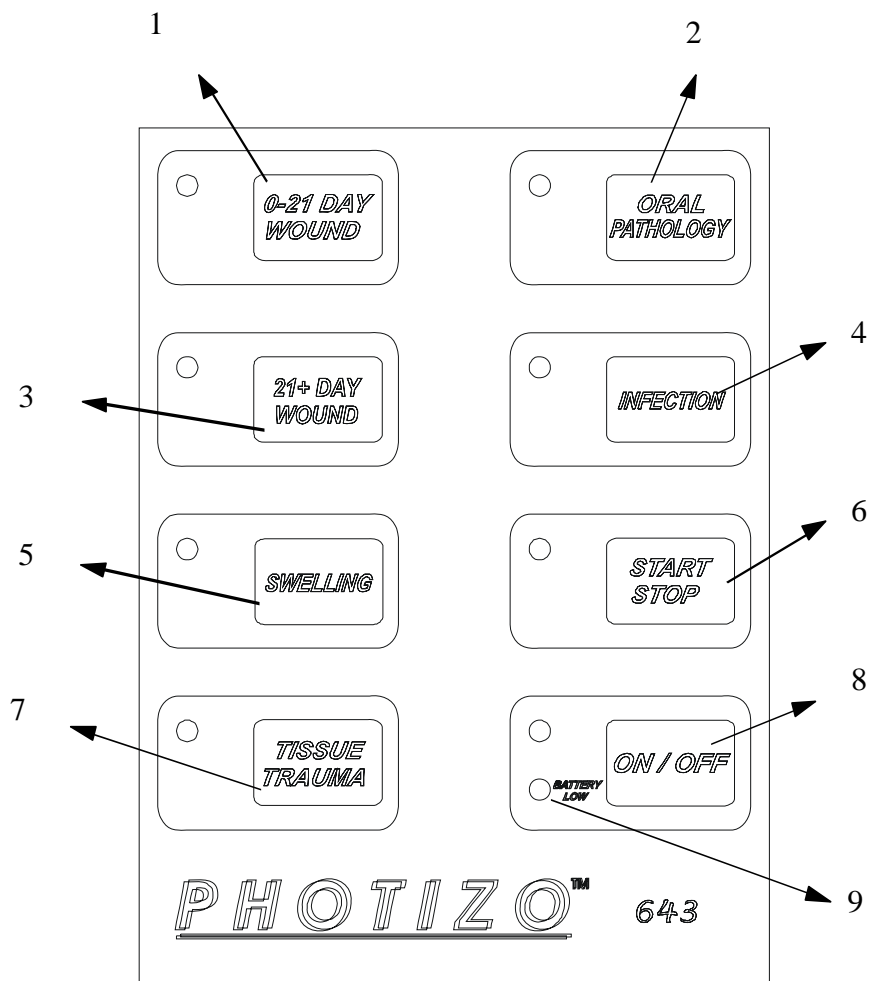
1. Press ON/OFF BUTTON – green light indicates that Photizo™ is ready for use.
2. Select desired protocol - protocol will be de-selected if START/STOP button is not pressed within 30 seconds.
3. Treatment for selected protocol starts when the START/STOP button is pressed – apply probe to affected body part as described below.
4. Pressing START/STOP button again will reset apparatus.
5. Press the ON/OFF button to switch apparatus off.
6. Apparatus will switch off after five minutes if not used in order to save battery power

**WARNING!**  
DO NOT SHINE THE LIGHT FROM THE PROBE DIRECTLY INTO YOUR EYES OR THE EYES OF ANY OTHER PERSON OR ANIMAL!

### TREATING WITH THE PHOTIZO 643 CLINICAL UNIT

You will find that light therapy relieves pain and assists in healing numerous everyday conditions. The cell is the building block of your body and if each cell is able to function optimally, the body will heal itself. Light therapy stimulates cells to function optimally and to resume their normal functioning. In general, treat directly over the area that is in need of healing. As the penetration depth of Photizo™ light is 12 mm (where 60% of the original light is still present in the tissue), you can press lightly against the skin to ensure deeper penetration.

## CONTROLS FOR THE CLINICAL UNIT (643)



### CONTROL DESCRIPTION

- 1 0-21 DAY wound button with LED indicator
- 2 ORAL PATHOLOGY button with LED indicator
- 3 21+ DAY old wound button with LED indicator
- 4 INFECTION button with LED indicator
- 5 SWELLING button with LED indicator
- 6 START/STOP button with LED indicator
- 7 TISSUE TRAUMA button with LED indicator
- 8 ON/OFF button with LED indicator
- 9 Battery low indicator

## TREATMENT PROTOCOLS FOT CLINICAL UNIT

### 0-21 DAY WOUND BUTTON

Wounds that can be treated with this button include:

- All acute wounds, including cuts, scratches, scrapes, blisters, surgical wounds, burns, bedsores, superficial bruising, lip wounds, mosquito- and other insect bites (reduces swelling and itching), contact dermatitis and dermatitis following radiation (cancer treatment), skin grafts and nipple irritation during breastfeeding
- Suitable for treatment immediately post-operatively, as well as follow-up or step-down wound care.
- Treat all skin breaks immediately and treat potential pressure points daily.

### 21+DAY WOUND BUTTON

Wounds that can be treated with this button include:

- Most chronic wounds (21 days and older)
- Ulcers (diabetic and venous), infected wounds (ALWAYS in combination with antibiotics), superficial bruises.
- Bed sores/Pressure wounds
- Hemorrhoids (protruding), eczema, psoriasis, blemishes, skin coarseness, scleroderma, sunburnt skin.

### SWELLING BUTTON

Use this protocol to treat:

- Seromas, skin hematomas, cellulites, general swelling (including post-operative swelling), lymph edema, lymphatic damage, mastitis,.
- Post traumatic swelling
- Inflammation
- Vacuities
- Swelling in the ear canal.

### TISSUE TRAUMA BUTTON

Suitable for most tissue injuries, including injuries to bone, muscles, ligaments, tendons, fascia, cartilage and nerve tissues.

Automatic, sensory and motor nerve damage due to pathology, especially in diabetic patients, is the major cause, for example, ulcers, hypertrophic nails and skin breaks. Daily treatment of extremities will prevent this damage. If nerve damage/neuropathy already exist light therapy may assist with the regeneration of nerve and vascular tissue, with prolonged daily treatment.

- Nervous system: Prevention and treatment of nerve damage of extremities. Especially useful in diabetics and venous deficient patients.
- Venous deficiency: daily treatment over a long period will stimulate the formation of new capillaries. Treat all the surfaces of the affected areas, e.g. lower extremities.

Other conditions include:

Nerve tissue:

- Neuropathy, burning of hands and feet, carpal tunnel syndrome, peripheral nerve injuries, sciatica.

Vascular pathology:

- Burger's disease, Raynaud's disease, varicose veins, vasculitis, and Thrombophlebitis.

Muscle:

- Muscle trauma, muscle spasms (e.g. neck and back spasms), fibromyalgia, repetitive/over-use syndromes, muscle strains, muscle contusions, muscle surgery, and muscle pain/myalgia.

Ligament, tendon and fascia:

- Strains, injuries, sprains, inflammation, bruising, surgery, ITB/runners knee, fasciitis, plantar fasciitis, tendonitis, and synovitis.
- Tension headache and migraine: treat over the first vertebrae directly under the skull, temples, and tender muscles around the skull and vertebrae.
- Joint injuries/sprains/ strains/dislocations, inflammation, athralgia (painful joints)

Also use for:

- Tennis and golfers elbow, shin splints, trigger points, rotator cuff syndromes, acupuncture points, trigger points, fibrositis. Arthritic conditions e.g. DJD(degenerative joint disease), Rheumatoid arthritis, gout;
- Cartilage damage (e.g. meniscus bruising/tears), discus injuries/degeneration (e.g. slipped discus), synovitis;

The following conditions are especially relevant in the diabetic patient:

- Metatarsal pain and inflammation, calcaneal spur, bunions, hammer and claw toe.
- Fractures (assists in faster callus formation) prevention of bone resorption, stress fractures;

Temporo-mandibular conditions, fibro-athralgia, spinal column pain associated with pain in the neck and back.

Also use for:

- Arthritic conditions (DJD)
- Ruptured discs and other discus trauma/disease
- Traumatic synovitis
- Chondrotic tearing
- Use following laminectomies and fusions
- Fractures and osteo trauma – light therapy increases callus formation

## **ORAL PATHOLOGY**

- Use following tooth extractions, dental implants, or skin breaks following dental work
- Acute and chronic sinusitis, rhinitis/rhinopathy, inflammatory skin conditions, gingivitis, hypersensitive dentine, oral mucositis, and
- Oral wounds, lip wounds, nose fractures
- Post operative ear, nose, throat and oral surgery
- Mouth ulcers, tooth abscesses, wounds after tooth extraction, pain after root canals, hypersensitive gums, gingivitis, hypersensitive dentine, post-operative pain after dental implants, mucositis after radiation, sore throat and tonsils and painful mouth nerve conditions.

Direct the applicator at the problem area. Where tooth ace is present direct the applicator towards the tooth neck.

On open wounds treat the area around the wound as well as inside the wound.

For treatment of a sore throat, vocal cords or tonsillitis direct the applicator towards the problem and treat the whole affected area.

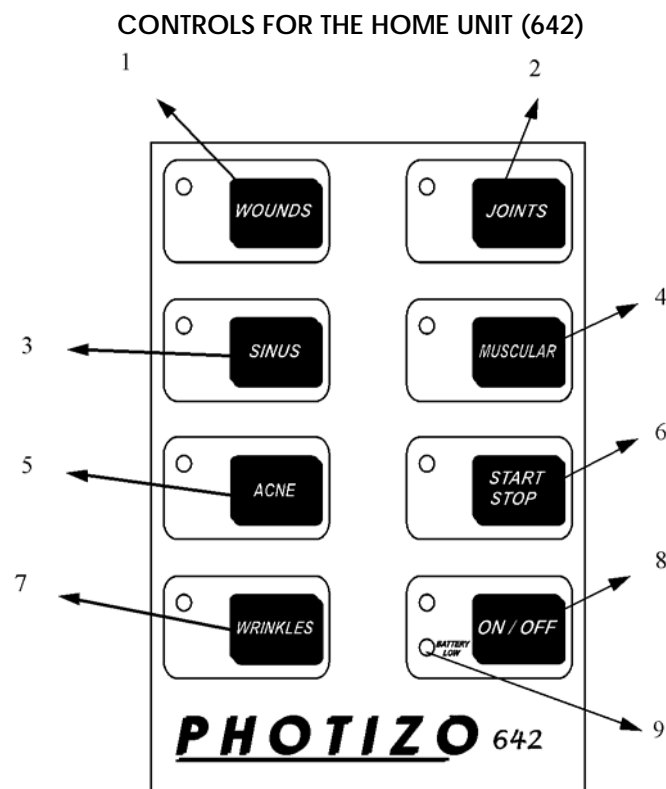
### **INFECTION BUTTON**

Treatable conditions include conditions that involve an infection process: e.g. certain bacterial, viral, and fungal infections.

NOTE: When infection is present, also treat the proximal lymph nodes, to stimulate the immune response.

Use for:

- Cold sores (on lips, genitalia or inside mouth). Treat the lesion as soon as it appears. Follow up treatment the next day with the 0-21 wounds protocol.
- Shingles. Treat the whole affected area once daily. Especially useful to relieve painful post-herpetic neuralgia that can follow shingles
- Acne, boils, tooth abscesses, cysts (inflamed or seborrhoic), warts (better results obtained in children), osteoitis/bone infection, peri-anal abscesses, genitalia infections, and vaginitis (cover the probe in see-trough plastic to prevent cross infections)
- Bell's palsy, swimmers/tropical ear, tinnitus (good results have been obtained with certain types of tinnitus) and vertigo. Direct the probe in the ear canal, front and under the ear.
- Athlete's foot, fungal infections of the skin and nails – treat the whole area daily, until the condition has healed.



## CONTROL DESCRIPTION

1. WOUNDS button with LED indicator
2. JOINTS button with LED indicator
3. SINUS button with LED indicator
4. MUSCLES button with LED indicator
5. ACNE button with LED indicator
6. START/STOP button with LED indicator
7. WRINKLES button with LED indicator
8. ON/OFF button with LED indicator
9. BATTERY LOW indicator

## PROTOCOL BUTTONS FOR THE HOME UNIT

The effective penetration depth of the Photizo™ photon beam is approximately 12 mm (60% penetration depth), so it is not suitable for treating deep internal conditions. In addition, Photizo™ must only be used on the outside surface of the body and not internally, except for the mouth, where it can be used to treat the conditions listed under the appropriate heading below.

### WOUNDS

Wound healing and tissue repair conditions that can be treated with this button include:

Cuts, scratches, scrapes, blisters, surgical wounds, burns, bedsores, lip wounds, frostbite, redness (rosacea), and skin flushing, insect bites (reduces swelling and itching)

Also use for:

- Contact dermatitis (resulting from cancer radiation treatment)
- Haemorrhoids
- Burger's disease and Raynaud's disease. Treat daily, cover all surfaces of hands and feet
- Psoriasis, eczema, edema
- Vasculitis (inflamed veins), circulation disturbances
- Inflammatory skin conditions
- Other slow-healing wounds

Can also be used for the following oral conditions:

Mucositis (from chemotherapy), tooth abscesses, wounds after tooth extractions, pain after root canal procedures, hypersensitive dentine, post-operative pain and wounds after dental implants, sore throat and tonsils, gum problems.

### WRINKLES

NOTE: Use the rubber applicator when using Photizo™ near the eyes.

Treat daily for fine lines and wrinkles, crow's feet, blemishes, and to decrease pore size.

Also use for:

- Sunburnt skin
- Irregular pigmentation
- Skin coarseness
- Scleroderma

Treat at least 3 times a week and allow 3-4 weeks for effects to become visible.

Also use for:

- Alopecia — hair loss due to genetic or drug effects, or as a result of poor blood supply. Hair loss in men is genetically programmed, and early hair loss cannot be prevented, although hair loss can be slowed down. Photizo™ assists in securing hair transplants or grafts.
- Liver spots (brown spots on hands and arms due to advanced age)

## **SINUSITIS**

NOTE: Light therapy will not heal acute sinusitis resulting from allergic reactions but will relieve the symptoms thereof. Repeated allergic sinusitis causes chronic sinusitis and light therapy will help to prevent short sinusitis developing into chronic sinusitis. In cases where chronic sinusitis already exists, the initial reaction will be the draining of the sinus cavities. If the treatment is continued the mucus membrane lining in the sinus cavities will also become less irritable, and will heal/normalize. Treat daily for at least 6-10 days.

Other conditions that can be treated with this button:

- Rhinitis/Rhinopathy (irritated/infected nasal mucosa)
- Earache
- Tonsillitis and sore or inflamed vocal cords

## **ACNE**

NOTE: Large skin abscesses or boils will not disappear – rather, they mature faster with Photizo™ treatment, as it stimulates the body's natural healing pathways. Always use in combination with antibiotics if large or deep skin abscesses are to be treated. Treat as soon as pimple appears. Treat once daily. Treatment with light therapy will also reduce scar formation.

Other conditions that can be treated with this button:

- Cold sores (on lips, genitalia, or inside the mouth) and mouth ulcers. Treat lesion immediately when it appears. You may experience more swelling of the lesion in the few hours after treatment. Follow up treatment the next day with the WOUND protocol button. With repeated treatment, cold sore breakouts become less frequent.
- Shingles. Treat the whole affected area once daily. Especially useful to relieve painful post-herpetic neuralgia that can follow shingles.
- Fungal infections of skin and nails, athlete's foot. Treat whole area and also the nail bed daily until infection is cleared. Continue treatment for up to two weeks.
- Warts – good results obtained in children. Treat daily for 2-3 weeks.
- Tooth abscesses
- Cysts (inflamed or seborrhoic)
- Bell's palsy – paralysation of one side of the face, usually caused by a virus. Use in the area in front of the ear canal as well as under the ear.
- "Swimmer's ear" or "tropical ears" - treat directly over the ear canal
- Tinnitus (ringing ears – good results have been obtained with certain types of tinnitus.) and vertigo. Direct probe in ear canal and the area around the ear.

## **JOINTS**

Photizo™ increases the range of joint movement, relieves pain and reduce swelling, especially in arthritic patients – also allows for quicker recovery of joint activity following injury. Useful for treating pain and inflammation associated with joint diseases such as arthritis and gout. Treatment should cover the whole joint line, front, sides and back.

Painful joints, inflammation in the joints, bone or cartilage, metatarsal problems (pain resulting from flat feet or weak foot muscles), calcaneal spur (painful heel). Arthritic conditions e.g. osteo-arthritis, rheumatoid arthritis, gout.

Also use for:

- Cartilage damage (e.g. meniscus bruising/tears), fractures, bone bruising, discus problems e.g. slipped disc, synovitis of the joints
- Spinal column problems associated with pain, back and neck pain,
- Tempero-mandibular joints (jaw joint)
- Fibromyalgia (treating around the joints will relieve pain), neuralgia
- Migraine and tension headaches (treat over the first vertebrae directly under the base of the skull, tender muscles around the skull and temples.

## MUSCLES

Photizo™ helps to relieve muscle pain and tightness, improves the flow of nutrients to muscles, accelerates metabolic and regenerative processes, and reduces swelling of injured tissues, muscles and cartilage. Use this protocol for dislocations, contusions, and sprains.

Muscle, tendon and ligament trauma/injuries/strains/sprains (as well as most soft tissue sport injuries), trigger points, muscle spasms (e.g. neck, shoulder and back spasms), fibromyalgia (tender muscles and soft tissue), fibrositis, over-use syndromes (repetitive injury syndromes), tendonitis, ITB (runner's knee), shin splints.

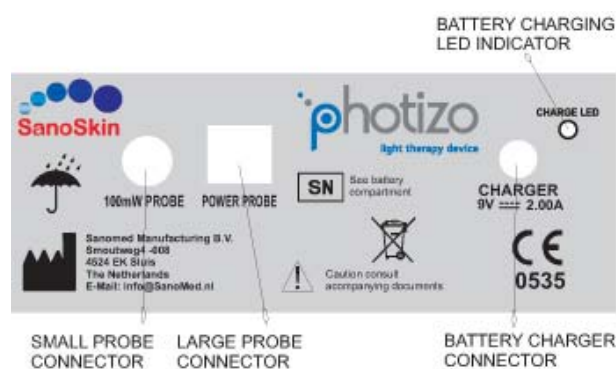
Also use for:

Synovitis, acupuncture points, bursitis (e.g. hip and elbow)

- Rotator cuff syndromes, frozen shoulder (usually associated with shoulder pain)
- Tennis- and golfer's elbow, carpal tunnel syndrome, plantar fasciitis, painful or burning feet and hands, neuropathy of feet and hands
- Nerve injuries, swelling and edema, thrombophlebitis and cellulitis, venous blood supply problems, varicose veins.
- Cellulites can also be treated with this protocol if the desired effect is not obtained with the WOUNDS protocol.

Tension headache/migraine and synovitis can also be treated with this protocol, depending on the cause of the headache.

## BACK PANEL



## GENERAL TIPS

Clean the probe with surgical spirits or alcohol-base sterilizer before treating wounds. Additionally, cover the wound or probe with sterile plastic or cling-film. Infected wounds – also treat the lymph nodes above the wound. E.g. if the wound is in the hand area, treat the lymph nodes under the armpit/axilla. If you find that the button/protocol you are using is causing more pain, revert back for a day or two to the “Wound” protocol and then resume as before. Remember to treat only once daily, as Photizo™ has been optimized for daily treatments. When an injury occurs, treat immediately for best results.

## AUTIONARY NOTES

**WARNING!**  
ONLY USE THE BATTERIES SUPPLIED WITH THE UNIT.  
ONLY USE THE **PHOTIZO™** BATTERY CHARGER SUPPLIED WITH THE UNIT TO CHARGE THE BATTERIES.  
ANY OTHER CHARGER WILL DAMAGE THE BATTERIES OR PHOTIZO™.

Please note that batteries will only reach full charging capacity after 2-3 charges. Replace batteries only with nickel metal hydride penlight 1200 mAh. Please note battery life is limited. Battery capacity decreases as it is used. Nickel metal hydride batteries are recyclable. You can help preserve our environment by returning your used rechargeable batteries to a collection and recycling location nearest to you. Visit <http://www.rbc.org> for more information.

Photizo™ is a patented device and is also protected by several registered designs and trade marks. We will not hesitate to enforce our intellectual property rights to ensure that the market remains clear of any cheap imitations which do not provide the healing power of Photizo™. Photizo™ was developed by a team of physiotherapists, biologists, veterinarians, and engineers to provide a simplified, user-friendly system to allow users to treat themselves, and medical professionals to treat their patients, without specialist training required in operating the apparatus. We are proud that this product is made to the highest standards and uses only the highest quality components sourced from around the globe. The South African Board of Radiation has approved this product. Please note, however, that PHOTIZO™ IS NOT A SUBSTITUTE FOR SOUND MEDICAL ADVICE OR TREATMENT, BUT IS MERELY AN ANCILLARY AID. DO NOT ASSUME THAT ALL CONDITIONS ARE SUITABLE FOR TREATMENT WITH LIGHT THERAPY. PHOTIZO™ IS NOT A DIAGNOSTIC TOOL AND IS NOT INTENDED TO REPLACE MEDICAL TREATMENT.

## SPECIFICATIONS

MAINS POWER : 100V - 250V  
BATTERY VOLTAGE : 4.8 VDC  
BATTERY CHARGER : 9 VDC  
WEIGHT : 500 grams  
LIGHT PROBE : 640 nM 100 mW  
AUTO SWITCH OFF : Within 5 min if not used

## ACCESSORIES

100 mW probe



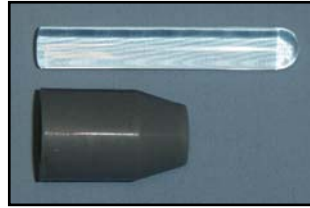
Battery Charger



### Batteries (rechargeable)



### Rubber applicator/Glass rod



### Large 400 mW probe



### Carry case



#### ORDER CODES

100 mW PROBE	#640001
BATTERY CHARGER	#640009
RUBBER APPLICATOR	#640003
GLASS ROD	#640005
BATTERIES X 4	#640250
LARGE 400 mW PROBE	#680001
HIP POUCH	#640004
STAND	#640680
ALUMINIUM CARRY CASE	#640006

### Stand



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[www.sanomed-manufacturing.eu](http://www.sanomed-manufacturing.eu)



See Battery compartment



#### WARRANTY

This product comes with a 2-year carry-in warranty from the date of purchase, provided original proof of purchase is presented. NO warranty claims stemming from malicious damage, battery leakage, accidental dropping, water damage, or organic solvent damage will be entertained. Batteries are expressly excluded under this warranty. Please note that specifications may differ from those presented in this manual. Please remove the batteries from the unit if the unit is not to be used for extended periods of time.