



Photon Therapeutic Inc  
**The Pain Reliever**™

Therapeutic Light Emitting Diode Device

Photon Therapeutic Inc.  
[www.TheraLED.com](http://www.TheraLED.com)



Photon Therapeutic Inc  
**The Pain Reliever**™

Therapeutic Light Emitting Diode Device

## Product Manual

Please read entire manual before using device

## Table of Contents

Table of Contents .....	2
Welcome to The Pain Reliever™ .....	3
Before You Begin .....	4
Parts Checklist .....	5
Important Safeguards .....	5
Indications and Contraindications .....	6
Indications .....	7
Contraindications .....	8
Brief Overview of the Operating Features and Power Supply .....	9
The Pain Reliever™ Operation Instructions .....	9
The Pain Reliever™ Application .....	9
The Pain Reliever™ Component Description and Function .....	10
The Pain Reliever™ Specification .....	11
The Pain Reliever™ LEDT .....	12
Treatment Theory .....	12
Treatment Protocol .....	14
General Treatment Considerations .....	14
Treatment Recommendations .....	14
Battery Care .....	15
Caring for your The Pain Reliever™ System .....	15
Warranty Information .....	16
Repairs .....	17
Disclaimer .....	17

## Welcome to The Pain Reliever™

Light therapy is not new to the health care and veterinarian field. In fact, it has been used in the equine market for more than 30 years. In the early stages of light emitting diode (LED) technology, infrared light was often used to treat performance racehorses for a variety of injuries ranging from abrasions to strained muscles and tendons. The use of infrared treatment has saved a number of animals from being put down due to injury and non-healing wounds.

The Pain Reliever™ utilizes high quality LEDs in a patented array configuration with advanced circuitry to bring you the most effective non-invasive treatment available.

Due to its design and versatility The Pain Reliever™ provides you not only with the latest In continuous infrared/red light technology (CIRLT) not only for yourself but also larger Performance animals and is perfect for treating your smaller house pets.

The Pain Reliever™ is a therapeutic device: natural, convenient, and affordable. It is painless and one would appear unconcerned to the treatment as it is being easily delivered.

The Pain Reliever™ is conveniently cordless and delivers healing light through the skin surface. No shaving of hair is necessary.

The Pain Reliever™ treatments may also reduce your risk of bacterial and viral infection after surgery while reducing your recovery time.



The Pain Reliever™ is low intensity LED therapy that can be used for the treatment of:

- Arthritis
- Muscle or tendon injuries
- Skin wounds
- Joint pain
- Back pain
- Muscular skeletal illnesses
- Pain relief
- Reduce inflammation
- Cause a boost to the immune system
- Help resolve infection
- Improve the function of damaged nerve tissue by reducing the scar tissue surrounding it



The Pain Reliever™ is not a substitute for medical care; if you have a concern, always contact your physician or medical health care professional.

For treatment centers, rental, purchase, or more information please visit our Internet site at [www.TheraLED.com](http://www.TheraLED.com).

## Before You Begin

- ✓ Review the parts checklist to make sure your order is complete.
- ✓ Read and understand the “Important Safeguards” section.
- ✓ Read and understand the “Treatment Theory and Protocol” for your The Pain Reliever™.
- ✓ Read and understand the “The Pain Reliever™ Application and Operation” section.
- ✓ Review the “Caring for Your The Pain Reliever™” section to ensure years of product use.
- ✓ Service and warranty information can be found at the end of the manual.

## Parts Checklist

- ✓ 1 The Pain Reliever™ LED Device
- ✓ 1 Adaptor
- ✓ 1 USB cable
- ✓ 1 Manual



## Important Safeguards

The The Pain Reliever™ has been carefully engineered both for effectiveness and safety. However, basic safety precautions should always be observed when using any electrical (electronic) equipment, and especially during charging.

1. READ ALL INSTRUCTIONS AND PRECAUTIONS BEFORE USING THIS PRODUCT
2. PRECAUTIONS
  - Always use caution when plugging the charging unit into an electrical outlet.
  - Plug only into a standard:
    - o Outlet using the proper charger/transformer supplied with The Pain Reliever™.
    - o We suggest using an outlet strip with surge protector.
  - Never place or store any unit or charger where it can fall or be pulled in a tub, sink, toilet, water tank or bucket.
  - Never reach for a unit that is plugged into an electrical outlet and has fallen into water. With care, unplug immediately.
    - Be sure unit is off before plugging and unplugging chargers.

NOTE: Using the wrong charger may cause damage to the unit. Only use the properly labeled chargers that correspond to each device.

### 3. MEDICAL WARNING

Treatment without a general or specific diagnosis as to the cause of the pain or dysfunction is not recommended. The Pain Reliever™ is not a substitute for professional care; if you have a concern, always contact your physician.

- Before allowing other people to use your The Pain Reliever™ instruct them as to the proper use and precautions.
- Observe all precautions.
- Do not shine the beam of light from the light emitting diodes (LED's) directly into operator's eyes for long periods of time. Extended exposure to any bright light can damage eyes.
- Use cautiously; burns may result from improper use.
- This product is not to be used by incapacitated persons.
- Do not leave small children unattended with product.
- Do not use on areas of insensitive skin.
- Do not sit on, against, or crush.
- Do not use with liniments, salves or ointments that contain heat-producing ingredients, as skin burns could result.
- Use caution over areas of poor circulation, as skin burns could result.
- Consult a medical professional or veterinarian if on medication.

## Indications and Contraindications

Treatment without a general or specific diagnosis as to the cause of the pain or dysfunction is not recommended.

## Indications

Therapeutic applications of the The Pain Reliever™ are as follows:

- Use when hot applications are desirable for comfort and whenever recommended by a licensed medical professional.
- Provides temporary relief of minor muscle and joint pain and stiffness, minor arthritis pain, or muscle spasm.
- Helps provide for a temporary improved range and freedom of motion due to muscle relaxation and temporary minor pain relief.
- Provides a temporary increase in local blood circulation.

Many studies have reported great results with LED therapy for the following:

- Inflammatory conditions (e.g., bursitis, tendonitis, arthritis, etc).
- Wound care and tissue repair (e.g., ulcers, venous ulcers, bedsores, mouth ulcer, fractures, tendon ruptures, ligament tear, torn cartilage, etc).
- Pain control (e.g., back pain, neck pain, and pain associated with inflammatory conditions.
- Arthritis pain, bursitis, bruising, burns, edema, deep muscle problems, hematomas, inflammation, tight or sore muscles and infections.
- Ankle problems, bone chips, inflammation, ligament soreness, tendon problems, sore backs, splints, strains, sprains, swelling, shoulder pain, hip pain, sore backs, sore necks, salivary gland problems, wounds, cuts, scrapes and for stimulating trigger points and acupuncture points.

## Contraindications

There is a mass of scientific evidence that light therapy, when used at appropriate doses, is not contraindicated for any condition.

However, experience and prudence suggest the following:

- Cancer (tumors or cancerous areas).
- Direct irradiation of eyes.
- Treatment of patients with idiopathic photophobia or abnormally high sensitivity to light.
- Patients who have been pre-treated with one or more photosensitivity enhancing

agents, as for example, patients undergoing photodynamic therapy (PDT).

- Direct irradiation over the fetus or the uterus during pregnancy.
- Direct irradiation of the thyroid gland.
- Generally, do not apply any device operating in a pulsed mode to the chest area if a pacemaker is present.

The Pain Reliever™ is not a substitute for medical care; if you have a concern, always contact your physician.

## Brief Overview of the Operating Features and Power Supply

The The Pain Reliever™ has been designed to have the versatility of being portable and hand held or strapped in place. For your comfort and convenience an internal non-removable rechargeable long life lithium battery powers it. The available treatment time is approx 45-60 minutes with a fully charged battery.

Timed treatments may be applied in most cases without the need to shave hair or fur.

To enhance the The Pain Reliever™ 's high treatment efficacy, we have added a timed treatment function. This is intended to help you keep track of your treatment times.

The detailed operating features and functions are listed, described, and illustrated below.

## The Pain Reliever™ Operation Instructions

### The Pain Reliever™ Application

The Pain Reliever™ is configured to be user friendly.

To enhance the The Pain Reliever™ 's high treatment efficacy, we have added a timed treatment function. This is intended to help you keep track of your treatment times.

The green illumination of indicator is an indication of the operation of the infrared treatment, as infrared is not visible to the human eye.

## The Pain Reliever™ Component Description and Function

- Holding the on/off button for 1~2 second(s), the green illumination of indicator to indicate the start of the 15 minutes timed treatment.
- After approximately 15 minutes the green illumination goes out, this indicates a finished treatment.
  - You may stop and restart the treatment at any time by pressing the on/off button.
  - There are 3 characteristics of indicator indicate the battery remaining capacity: solid green illumination indicates the device is full charged; slowly flash indicates capacity is available; quickly flash indicates a recharge opportunity.
    - You may recharge at anytime due to the lithium battery characteristics.
    - Simply plug in the power adapter provided with your The Pain Reliever™.
    - When completely discharged the recharge takes approximately 2 to 3 hours to charge.
    - Please do not substitute any other charger.
    - Each recharge provides approximately 45-60 minutes of treatment time.
    - Please allow at least 2 to 3 hours of recharge from a fully discharged state.
    - The battery in the device can be recharged approximately 500 times.
    - Do to the characteristics of the lithium battery, you do not need to wait for the battery to be fully discharged; and may recharge at your convenience.
      - The battery recharge port is at the side of the device.
      - Please only use the adaptor provided.
      - Refer to more detailed battery information in the section “Battery Care”.

## The Pain Reliever™ Specification

Model:		BQ-01/02/03
1	Adapter input voltage	AC100~240V
2	Power	5W
3	Input Voltage	DC5V
4	Input Current	1A
5	LEDs Spec	3528 SMD LED
6	LEDs Quantity	127 pcs
7	Static current	0mA
8	Working Current	0.55~0.65A
9	Beam Angle	30°
10	Working Temp	5 - 35 C
11	Storage Temp	-20~+60 C
12	Atmospheric pressure	80KPa-106KPa
13	Surface Temp	≤40 C
14	Life Time	>20000h~50000h
15	Cases Material	Aluminum
16	Dimensions	ø90mm*35mm
17	Weight	220g

## The Pain Reliever™ LEDT

### Treatment Theory

The The Pain Reliever™ is designed to reflect the latest research in light therapy applications. It is simple to use and has high treatment efficacy.

Early researchers diverged greatly, resulting in many devices and configurations. Devices varied in power output, wavelength, pulsed output and treatment time. Results are often confusing and vary in therapeutic value.

Present research has shown that energy density is the primary factor in achieving therapeutic results. Wavelength plays a secondary, but important role. All other factors are dependent on energy density and wavelength.

Energy density is the amount of incident energy delivered to a treatment area in a given time.

Studies have shown that therapeutic effects require an energy density of 10 to 60 joules.

Individual variations and conditions affect the actual energy required.

This energy may be delivered in 1 or 2 treatments or 10 plus treatments. Each will give similar results. Pulsing a diode results in a reduced energy density. The diode is turned on for brief periods of time at a very high-energy output. The pulsed frequency has minimal therapeutic effect and the required treatment time is increased.

The The Pain Reliever™ is configured to operate in a continuous mode. This delivers a high energy density in the shortest possible time, giving effective treatments in 15 minutes or less.

In each of the timed treatments of 15 minutes each, the energy density will be approximately 50 joules.

When treating multiple areas on your pet, allow approximately 3 to 4 hours before going back to the same specific location.

Penetration of the light energy into the tissue is governed by the wavelength. Visible red is absorbed in the top 2 to 3 centimeters. Infrared will penetrate tissue much deeper. Energy is diffused from the treatment area into surrounding tissue. A visible red wavelength is best utilized for acute or chronic skin conditions, ulcerated tissues, post-operative pain and acute soft tissue injuries.

An infrared wavelength will be best utilized in conditions of chronic pain, inflammation of joints and soft tissues, old injuries and scars that are painful or weather sensitive. Infrared is also useful in treating fractures and injuries involving ligaments and tendons.

The Pain Reliever™ may be utilized for both skin conditions and muscle and joint pain. Treatment without a general or specific diagnosis as to the cause of the pain or dysfunction is not recommended.

The Pain Reliever™ is not a substitute for personal medical or veterinary care; if you have a concern, always contact your physician or health care professional.

## Treatment Protocol

### General Treatment Considerations

Some individuals may experience an aggravation of symptoms with the initial treatment, as circulation is being restored to areas starved for some time.

This would normally subside after treatment and cease to be an issue after the first 2 or 3 treatments. If the aggravation is severe, a reduction in the treatment time per session will allow the therapy to proceed. Continued aggravation of symptoms would require further medical evaluation.

You may hold the unit in place by hand or use one of the straps provided. The shaving of hair is usually not necessary.

Apply the treatment to the area of concern, after approximately 15 minutes move to the next area in proximity. You may treat the same area several times per day.

### Treatment Recommendations

1. One or more treatments per day
2. Multiple treatments to the same specific area should be separated by approximately 3 to 4 times.
3. Joints flexed to near right angle if possible.
4. Begin treatments with the area most affected i.e. most pain, and then treat other areas with improvement.
5. Joints (ligaments, chronic pain, injury, rehabilitation, and repetitive strain injury) can be treated for 10 to 30 minutes each side, 1 to 3 times a day.

As a treatment of a specific condition proceeds, improvement may be noted by a decrease in pain levels, increased range of motion, improvement in colour, circulation and tissue healing.

## Battery Care

- For your safety the The Pain Reliever™ is shipped with a fully discharged long life lithium battery.
- To begin please read all of the operation instructions and then consider charging the battery for the first time.
- The typical life of the lithium battery is within a range of conservatively 500 recharges.
- The battery run time per use is approximately 45-60 minutes.

NOTE: It is not recommended to overcharge the battery often.

### Caring for your The Pain Reliever™ System

Every effort has been made to ensure that your unit is of the highest quality materials and workmanship. However, observing the following general precautions will substantially prolong the life of your unit.

1. The The Pain Reliever™ is made of electronic circuitry, hence, care should be exercised when placing it on or removing from the treatment site.
2. Do not apply without the zipper bag if the body is wet. First allow body to dry. Electronics can be short circuited by water. Prolonged exposure to moisture can cause corrosion.
3. When cleaning, never immerse or wash with water. Always use a dry cloth when cleaning the exterior.



## Warranty Information

Photon Therapeutic Inc. warrants each new The Pain Reliever™ to be free from defects in materials and workmanship for a period of 1 year following the delivery of equipment to the original purchaser. The obligation of Photon Therapeutic Inc. under this warranty is expressly limited solely and exclusively limited to the repair or replacement for the unit(s) or any parts thereof, which to the satisfaction of Photon Therapeutic Inc., shall have become defective during the warranty period. This warranty does not extend to any liability to medical or dental expenses or for any other direct, indirect or consequential damages caused by failure, defect or malfunction of any “Photon Therapeutic Inc.” product, except as herein provided, whether such damage claim shall be based on contract, breach of warranty or otherwise.

This warranty shall not apply to any product of “Photon Therapeutic Inc.” which has been repaired, tampered with or altered by someone other than a duly authorized Photon Therapeutic Inc. representative, or which has not been used in accordance with the enclosed instructions or for the stated purpose. This warranty is expressly limited solely to the original purchaser (user) and does not extend to any transferee, assignee or subsequent purchaser or user of the The Pain Reliever™ product.

This warranty is the sole and exclusive warranty made or which may be deemed to have been made by Photon Therapeutic Inc. and is expressly in lieu of any and all warranties of merchantability or fitness for a particular purpose. No person or entity has any authority to bind Photon Therapeutic Inc. to any warranty; guarantee or representation except as specifically set forth herein. Except as provided, Photon Therapeutic Inc. disclaims all

warranties, either express or implied, including but not limited to implied warranties relating to the use of the product and/ or result from the use of the product and any warranties which may be implied as a result of the purpose for which the product was manufactured. In no event will Photon Therapeutic Inc. be held responsible or liable for any failure to produce claimed results arising out of the use of or inability to use any “Photon Therapeutic Inc.” product by therapists or any other users of the product.

## Repairs

Repairs for all Photon Therapeutic Inc. products should be sent together with name, address and phone number, accompanied by a brief explanation of the problem and form of payment,

to:

Photon Therapeutic Inc.

Repair Dept.

Canada

All items sent either for repair or replacement in conformity with the terms of the warranty should be sent insured and properly packed. Photon Therapeutic Inc. assumes no responsibility for product that has been lost or damaged during shipment.

## Disclaimer

Photon Therapeutic Inc. products are not intended to diagnose, cure or prevent disease.

Photon Therapeutic Inc. makes no claims, representations or warranties regarding the ability of its products to cure any physical or health conditions. Any information given in this document should not be taken as a substitute for qualified medical advice. A qualified medical professional should be consulted with regard to any condition requiring medical attention.

## Device caution

Do not use the device while operating equipment.

BQ-03说明书:

成品尺寸: 125\*125mm 公差:  $\pm 2$ mm

材质: 128克双铜 四色印刷

工艺: 装订