

BioBeam™ 940



Operating Instructions and Users Guide

Welcome to the BioBeam™ 940 world of convenient, effective light treatment for pain. The BioBeam™ 940 is a Class 2A phototherapeutic medical device and complies with Annex VI of the Medical Device Directive 93/42/EEC and is CE certified (CE 0473).

Introduction

Phototherapy is a medical field where patients are treated with light rays. Sometimes sunlight is used in phototherapy. The light source of the **BioBeam™940**, which has special healing properties, is an example of a light source that is not found in nature.

BioBeam™940 uses narrow band invisible infrared light to relieve symptomatic joint pain in rheumatic or arthritic conditions such as back pain and knee pain.

This light source possesses special qualities accelerating the natural healing process, resulting in fewer medical treatments and medication. Please note that the illumination treatments with **BioBeam™940** are intended to be carried out in conjunction with treatment prescribed by a licensed medical practitioner, and are not intended to replace such medical treatment, unless specifically recommended by a physician. In all cases, it is strongly recommended to consult with a physician before use.

WARNING! Do not look directly at the light source (see fig. 1, item 4). Although the beam's strength becomes weaker at a distance of 30-40 centimeters, the user should refrain from direct exposure of the eyes to the light source.

Technical Specifications

Wave length	940nm
Beam area at focus	2 cm ²
Continuous Wave (CW)	
Power at focus (typical)	25mW
Maximum power density	20mW/cm ²
Power Pulse	
Peak power at Focus (typical)	270mW
Frequency	100 HZ
Duty Ratio (typical)	3%
Average Power	8mW

Installation and Operating Instructions

(Refer to fig. 1)

1. Plug the BioBeam AC adapter (5) into the **BioBeam™940** using the plug at the end of the adapter cord (1).

Do not use any other power supply.

2. Make sure that the power switch is set to OFF.
3. Plug the AC adapter into a wall outlet, matching the voltage indicated on the AC adapter.
4. To operate, switch the power switch (2) to the CW or PULSE position. PULSE mode supplies increased power, allowing for deeper penetration. In general, the duration of treatment is between 5 and 30 minutes in CW followed by an additional 5 to 30 minutes in PULSE mode.
A green indicator light (3) is illuminated when the power is on and the **BioBeam™940** is operating properly. If the green indicator light begins to blink, the **BioBeam™940** is not working properly and requires servicing.
5. In order to direct the maximum intensity of light rays on the area to be treated, adjust the distance between the skin and the **BioBeam™940** so that a minimal area is illuminated in red. Focus the light source properly on the area of skin to be treated.
In order to focus the light beam correctly, make use of the spacer ring (6). Place the spacer ring on the light source (4) and then place the ring on the area of skin to be treated.

6. After treatment is completed, move the power switch to the OFF position and remove the AC adapter from the wall outlet.

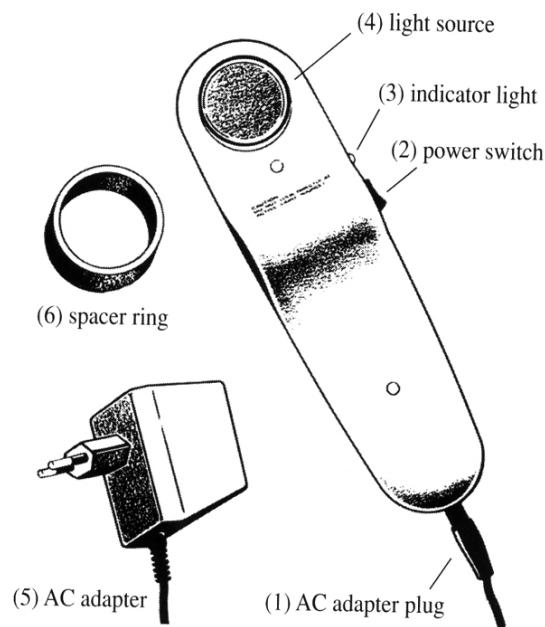


Fig. 1

BioBeam™940 Accessories

The following accessories are recommended for use with the **BioBeam™940** in order to facilitate use in hard-to-reach areas, or if in the case of physical limitations or handicaps.

1. Spacer ring (6)
Spacer ring fits directly on to the **BioBeam™940** light source (4) and is used to help focus the light beam by keeping the right distance between the BioBeam and the treated area.
2. Flexible Extension Arm
The flexible extension arm frees you from holding the **BioBeam™940** in your hand and allows you to reach hard-to-reach areas such as the back. This accessory is sold separately.

Important:

1. Keep the **BioBeam™940** out of reach of children.
2. Do not look directly at the light source.
3. Only use the power adapter supplied with your **BioBeam™940**.
4. These instructions in no way represent a guarantee for successful treatment.

Treatment instructions

The following treatment instructions are based on the accumulated clinical experience gained over several years of use in the physiotherapy department of Bnei Zion Hospital in Haifa, Israel. Hundreds of orthopedic and rheumatic disorders were successfully treated over this period.

1. During treatment, hold the **BioBeam™940** vertical to the area to be treated, at a 90° angle. (Fig.2)
2. During treatment, avoid direct exposure of the treated area to other light sources.
3. The spacer rings can be used to focus the beam more precisely.



Fig. 2

The following points are to be taken into account in order to receive the most efficient treatment:

A. Orthopedic and Rheumatic Disorders

Identify the exact location of the pain and focus the beam directly on it. This area should be no larger than 2-3 cm. In general, orthopedic and rheumatic pain can be divided into two categories:

1. localized pain
2. Radiated pain (for example, pain in the arm radiating from the neck)

You can differentiate between these by applying pressure on the spot where the pain is felt. If this pressure generates the same or similar, you can assume that what you are feeling is localized pain. If this pressure produces a different type of pain than the one you are feeling, or no pain at all, in all likelihood your pain is radiating from another part of your body.

The **BioBeam™940** is suitable for localized pain. In the case of radiated pain, it is advisable to consult with your physician in order to locate the source of the pain, and then **BioBeam™940** treatments can be adapted accordingly.

B. Joints

When treating joints, the light is focused on the joint-line area. If you suffer from pain under the knee cap, or feel pain internally and are unable to feel it externally, then the light is applied along the line where the two bones of the joint meet (See fig. 3). The light is applied perpendicular to both sides of the knee separately.

Effective treatment has been achieved in the following cases;

Arthritis	Joint inflammation, in cases where the pain is localized and focused
Tendonitis	Inflammation of the tendon
Bursitis	Inflammation of the bursa
Tennis elbow	Inflammation of the elbow
Backache	Attributed to a joint problem, focused in particular areas, diagnosed by a physician or physiotherapist. For example, Spondylosis in the L4L5 lumbar.

In rheumatic cases, characterized by focused pain and swelling of small joints such as fingers, the **BioBeam™940** can be used effectively by treating each area separately.

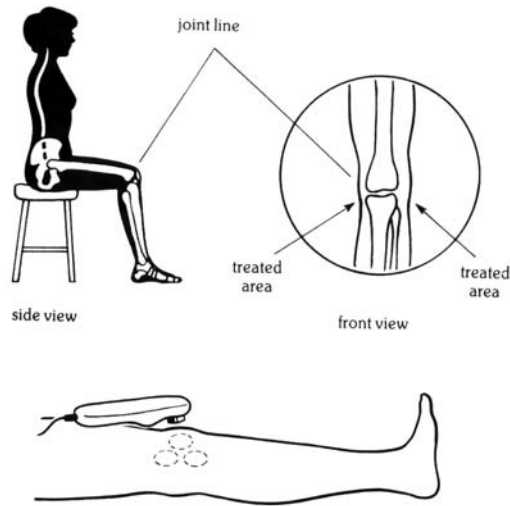


Fig. 3

Treatment Instructions:

1. Treat each area for 5 to 30 minutes in CW mode, followed by another 5 to 30 minutes in PULSE mode. Treatment may be repeated up to three times daily, at intervals of at least four hours. In general, treatments are applied in the morning and evening. Satisfactory results have been achieved when one daily treatment was applied, as well.
2. If the case has been classified as chronic, the treatment period will be longer. Other measures may be needed, such as muscle building and exercise.
3. For the small joints of the hands and feet, apply a short, 10 to 20 minute treatment; for the knees, 20 to 30 minutes; and for the back, 30 to 60 minutes.

If you have questions about the **BioBeam** or would like more information, PLEASE REFER TO YOUR DISTRIBUTOR.

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