

Viofor JPS System MagneticLight

REF. 1038

TECHNICAL DATA - PAGE 37

LED THERAPY

PULSED MAGNETIC FIELD LED THERAPY

Control unit MagneticLight offers two forms of therapy: LED Therapy and Pulsed Magnetic Field LED Therapy in synchronous or asynchronous mode. The selection of applicators allows to configure Viofor set to the intended application: red light (630 nm), infrared radiation (855 nm) or mixed applicators with different LED surfaces. Control unit MagneticLight allows you to remember the treatment settings and applicator, is equipped with two sockets for magnetic-light applicators.

SETTINGS – LED THERAPY

Power – from 10% to 100% of maximum applicator power. Step regulation of 10% with frequency filling 181,81 Hz (period 5500us).

Treatment time – 1 min – 30 min with 1 min step.

WORKS WITH PULSED MAGNETIC LED THERAPY APPLICATORS

PARAMETERS IN ASYNCHRONOUS MODE:

Power – from 10% to 100% of maximum applicator power. Step regulation of 10% with frequency filling 181,81 Hz (period 5500us).

PARAMETERS IN SYNCHRONOUS MODE:

Light pulses – synchronized with magnetic field pulses.

Width of light pulses – from 0.5 ms to 5 ms with 0.5 ms step.

PULSED MAGNETIC FIELD STIMULATION PARAMETERS:

Complex shape pulses with multi-peak structure, resulting in multiple signals across a frequency spectrum.

Treatment time – automatically set after selecting the therapy parameters 8 min/10 min/12 min. Multiplier of the treatment running time: x1, x2, x3

Therapy intensity – thirteen levels of application intensity (magnetic induction level): from 0,5 to 12

Polarization – automatic change in the direction of the magnetic field



WORKS WITH MAGNETIC-LED APPLICATORS

Control unit MagneticLight works with panel applicators providing both LED Therapy and Pulsed Magnetic Field LED Therapy - synchronous and asynchronous.



Ellipse LED R
REF. 1043 (page 21)



Ellipse LED IR
REF. 1066 (page 21)



Ellipse LED R+IR
REF. 1044 (page 20)



Panel LED 560 R
REF. 1080 (page 30)



Panel LED 192 R+IR
REF. 1083 (page 31)



Panel LED 560 IR
REF. 1084 (page 32)



Panel LED 192 IR
REF. 1082 (page 32)



Panel LED 560 R+IR
REF. 1081 (page 31)

OPTIONAL ACCESSORIES



Safety goggles
REF. 1086 (page 34)



Table stand
REF. 1071 (page 34)



Light stand
REF. 1087 (page 34)

Viofor JPS System S PDT MagneticLight

REF. 1038

A version of control unit MagneticLight designed for Photodynamic Therapy (PDT) works only with the Spot LED-PDT Applicator (ref. 1553).

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LED THERAPY



Spot LED-PDT applicator (REF. 1553)

Emits a red beam radiation (incoherent and unpolarized – non-laser) with power LEDs with parameters similar to those in low-energy laser and medium-energy laser. Works with control unit Viofor S PDT MagneticLight (ref. 1038). The applicator is designed for contact or close contact use. The usage of safety goggles is recommended for the patient and staff during treatment.



Panel magnetic-light applicators

Panel magnetic-light applicators are designed for treatments of medium and large body surfaces. They perform two forms of therapy: LED Therapy and Pulsed Magnetic Field LED Therapy - synchronous or asynchronous. They are designed for contact and near contact use.

Works with control unit:

MAGNETICLIGHT

Therapies:

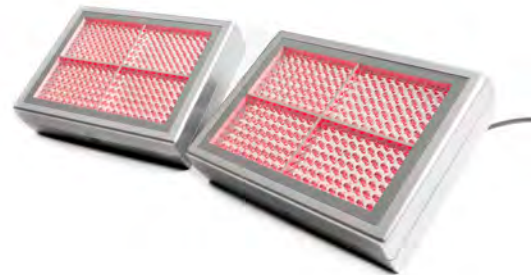
LED THERAPY

PULSED MAGNETIC FIELD LED THERAPY

TECHNICAL DATA - PAGE 30-31

Panel LED 560 R (REF. 1080)

Application surface - 560 cm². Light interaction - 630 nm (R) up to several mm deep. Dual panel applicator consists of sections connected with each other by a cable, each of which is equipped with a set of high-energy LEDs emitting pulsed LED radiation and a module generating heterogeneous magnetic field in the JPS System. The applicator is designed to be fixed on a stand (Light stand Ref. 1087), it ensures any position of the applicator over the surface of the treatment.



APPLICATION

For the treatment of small and medium surfaces. Activity: analgesic, regenerative, improving peripheral activity, antispastic. **Due to the impact of red light, it is applied mainly on skin diseases, in dermatology, plastic surgery and cosmetics:**

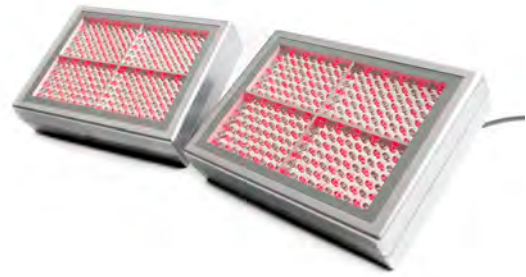
- delayed healing of superficial wound, ulceration and bedsore,
- acne vulgaris,
- herpes zoster,
- first-degree burns.

It can be used in dermatology and aesthetic medicine. Due to the influence of magnetic field it is used mainly in rehabilitation and treatment as well as in dentistry (the range of applications is analogous to that of an elliptical applicator - page 18).



Panel LED 560 R+IR (REF. 1081)

Application surface - 560 cm². Light interaction - 630 nm (R) up to several mm deep, 855 nm (IR) up to several cm deep. Dual panel applicator consists of sections connected with each other by a cable, each of which is equipped with a set of high-energy LEDs emitting pulsed LED radiation and a module generating heterogeneous magnetic field in the JPS System. The applicator is designed to be fixed on a stand (Light stand Ref. 1087), it ensures any position of the applicator over the surface of the treatment.

**Panel LED 192 R+IR (630 nm / 855 nm) (REF. 1083)**

Application surface - 192 cm². Light interaction - 630 nm (R) up to several mm deep, 855 nm (IR) up to several cm deep. Applicator is equipped with a set of high-energy LEDs emitting pulsed LED radiation and a module generating heterogeneous magnetic field in the JPS System. The applicator is designed to be fixed on a stand (Light stand Ref. 1087), it ensures any position of the applicator over the surface of the treatment.

**APPLICATION**

For the treatment of small and medium surfaces. Activity: analgesic, regenerative, improving peripheral activity, antispastic.

Osteoarticular system diseases:

- spondylosis of the spine and osteoarticular system of the upper and lower limbs,
- pain syndromes of various aetiology,
- injuries of osteoarticular system,
- chronic and subacute arthritis,
- rheumatoid arthritis (RA) and ankylosing spondylitis.

Soft tissue diseases:

- soft tissue injuries,
- chronic and subacute arthritis.

Neurological diseases:

- neuralgia (intercostal neuralgia, trigeminal)
- neuralgia, post herpetic neuralgia),
- sciatica.

Skin diseases:

- delayed healing of wound, ulceration and bedsore,
- herpes zoster.

Can be used in dermatology and aesthetic medicine.



Panel LED 560 IR (855 NM) (REF. 1084)

Application surface - 560 cm². Light interaction - 855 nm (IR) up to several cm deep. Dual panel applicator consists of sections connected with each other by a cable, each of which is equipped with a set of high-energy LEDs emitting pulsed LED radiation and a module generating heterogeneous magnetic field in the JPS System. The applicator is designed to be fixed on a stand (Light stand Ref. 1087), it ensures any position of the applicator over the surface of the treatment.

**Panel LED 192 IR (855 NM) (REF. 1082)**

Application surface - 192 cm². Light interaction - 855 nm (IR) up to several cm deep. Applicator is equipped with a set of high-energy LEDs emitting pulsed LED radiation and a module generating heterogeneous magnetic field in the JPS System. The applicator is designed to be fixed on a stand (Light stand Ref. 1087), it ensures any position of the applicator over the surface of the treatment.

**TECHNICAL DATA - PAGE 32****APPLICATION**

For the treatment of small and medium surfaces. Activity: analgesic, regenerative, improving peripheral activity, antispastic. **As a result of the infrared light applied mainly in osteoarticular system, soft tissues and neurological diseases.**

Osteoarticular system diseases:

- spondylosis of the spine and osteoarticular system of the upper and lower limbs,
- pain syndromes of various aetiology,
- injuries of osteoarticular system,
- chronic and subacute arthritis,
- rheumatoid arthritis (RA) and ankylosing spondylitis.

Soft tissue diseases:

- soft tissue injuries,
- chronic and subacute arthritis.

Neurological diseases:

- neuralgia (intercostal neuralgia, trigeminal neuralgia, post herpetic neuralgia),
- sciatica.



Light energy therapy and combination therapy

LED THERAPY, PULSED MAGNETIC FIELD LED THERAPY

Pulsed Magnetic Field LED Therapy means the combined application of Pulsed Magnetic Field Stimulation and LED Therapy. It is a form of phototherapy based on the use of the energy of non-coherent and non-polarized light in the visible and near-infrared range.

Pulsed Magnetic Field LED Therapy in Viofor JPS System devices uses red and infrared optical radiation with energy powers similar to those of low and medium energy lasers. The pulses of optical radiation are synchronized with the pulses of the magnetic field.

Light energy has a mainly topical effect on tissue. Its penetration inside the body depends on the light's wavelength. Tissue reaction depends on energy absorption in each tissue layer. The absorption effectiveness is mainly affected by the thickness of the tissue, in each tissue layer, blood supply and blood flow, water content and the presence of pigment.

Infrared reactions start as cell membrane level, and reactions to red light – in mitochondria.

At the tissue level, the biological effect of ELF-MF and light energy are of a similar nature. When applying Pulsed Magnetic Field Stimulation together with light, a synergy effect can be expected, depending on the individual characteristics.



We are a manufacturer and supplier of medical devices for physiotherapy, using pulsed magnetic field and light radiation.

**MEDICAL DEVICES FOR:
LED THERAPY
PULSED MAGNETIC FIELD THERAPY
PULSED MAGNETIC FIELD STIMULATION
PULSED MAGNETIC FIELD LED THERAPY / COMBINATION THERAPY**



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