

# Laser therapy

## Polaris 2

The low level laser therapy unit.

Polaris works with point and scanning laser applicators.

There are available four types of point probes as well as two types of laser scanners. All applicators have the possibility of adjusting power operation mode: continuous or pulse. The power of laser beam radiation may be set in four phases for point probes and two phases for scanners.

The unit gives the possibility of connecting two point probes and one scanning applicator simultaneously.

Laser scanning applicators are perfectly applicable in automatic irradiation of larger treatment areas without the presence of physiotherapist.

By choosing one of the three modes of irradiation (ellipse, line, curves within a rectangle boundaries) the therapist can optimally use light source depending on the characteristics of treated area.

An important advantage is the automatic calculation of treatment time depending on the shape and size of treated area. The only thing that the therapist has to do is setting the distance between scanning head and patient.

The use of the unit is improved thanks to the gas spring that counterbalances weight of the scanning head.

The scanning head can be set in two axes so its position can be easily adjusted to the treated area.



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### SPECIFICATIONS

#### LASER THERAPY

- cooperation with scanning applicator and point probes
- power adjustment
- operation modes: continuous and pulse
- duty cycle or pulse time setting

#### SCANNING APPLICATOR (optional)

- high power of emitters measured on output
- two versions with different powers
- three ways of plotting the treatment area: ellipsis, line and curves within a rectangle boundaries
- adjustment of the arm height: 60 – 140 cm
- setting of the scanning head in two axes
- automatic determination of treatment time depending on the size of treated area
- pneumatic actuator that holds the arm
- high quality wheels with brakes
- shelf for controller and protective goggles

#### POINT PROBES (optional)

- diversified power 20 mW and 40 mW for 650 nm and 660 nm, 200 mW and 400 mW for 808 nm
- 4-level laser power adjustment
- power stabilisation of the laser beam radiation
- readiness rate and work signalization

#### MANUAL MODE

complete control over parameters for advanced users

#### TREATMENT PROGRAMS

- simplification of the unit operation
- treatment programs chosen by name
- 30 programs for point probe IR
- 20 programs for point probe R
- 50 user-defined programs
- 8 programs with Nogier frequency
- 30 programs with Voll frequency

#### TREATMENT SEQUENCES

- simplification of the unit operation
- 10 preset sequences for point probes
- 25 preset sequences for scanning applicators



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## Technical specifications

### ERGONOMICS

- operation mode: program/manual
- easy-to-read display
- operation in graphic mode
- treatment programs chosen by name
- edition of the user-defined programs
- the possibility of treatment automatic repetition
- treatment timer

### STRUCTURE

- graphic display
- modern design
- heavy-duty and reliable keyboard
- counter of laser probes operation
- stabilization and adjustment of applicators power
- two universal laser probes sockets
- self-test – systematic control of the unit

### TYPES OF LASER APPLICATORS

- point probe R 660 nm/40 mW
- point probe R 650 nm/20 mW
- point probe IR 808 nm/400 mW
- point probe IR 808 nm/200 mW
- scanning applicator R+IR 50 mW + 400 mW

### TECHNICAL PARAMETERS

power adjustment	25 – 100 %
operation mode	continuous, pulse
frequency	1 – 5000 Hz
duty cycle	25 – 75 %, 50 us pulse
treatment timer	max 99 minutes 59 sec.
mains supply	230 V, 50 Hz, 40 W
dimensions	30x23x11 cm
weight	2,5 kg

### WARRANTY

Polaris 2	2 years
laser applicators	1 year

### STANDARD ACCESSORIES

- mains cable
- protective goggles
- warning labels
- blocking plug (door)
- user guide

### OPTIONAL ACCESSORIES

- laser probe R 660 nm/40 mW with holder
- laser probe R 650 nm/20 mW with holder
- laser probe IR 808 nm/400 mW with holder
- laser probe IR 808 nm/200 mW with holder
- scanning applicator R+IR 50m W + 400 mW with stand
- power measure sensor
- bag for the unit and accessories
- cart

