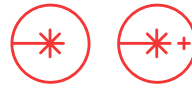




# Polaris HP S

Biostimulation laser therapy  
High power laser therapy



## Features

product code	A-UL-AST-PHPS1
color display with touch panel	7"
independent treatment channels	1
manual mode	✓
disease entities selected by name	✓
preset treatment programs database	✓
user-defined programs database	✓
user sequence database	✓
favorite programs	✓
possibility of program names and user sequences edition	✓
encyclopedia describing the treatment methodology	✓
statistics of performed treatment procedures	✓
buzzer sound volume regulation	✓
parameter setting / adjustment knob	✓

## Laser therapy

operation with applicators: scanning laser, cluster laser and point probes	✓
emission mode: continuous and pulse	+ superpulse
adjustment of laser radiation power	✓
duty factor	✓
possibility of automatic treatment procedure repetition	✓
automatic laser radiation power test	✓
automatic calculation of time relative to treatment parameters - dose, power, duty factor, treatment area	✓
three modes of treatment field irradiation in scanning laser applicators	✓
dedicated modes for cooperation with optical fiber applicators	✓
optical fiber applicators for laserpuncture and ENT applications	✓
three application adapters: 1 cm <sup>2</sup> , 5 cm <sup>2</sup> , DILA	✓
independent parameter settings for both sources	✓
pilot beam indicating the application site	✓

## Preset treatment programs

built-in treatment programs, including:	227
high power laser probe programs	50
IR point probe programs	38
R point probe programs	20
programs with Nogier frequency	8
programs with Voll frequency	30
cluster laser applicator programs	55
program sequences for scanning laser applicators	26

## Preset treatment sequences

user-defined sequences	50
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user configurable programs	250
favorite programs	✓

## Laser therapy technical parameters

laser device class	4
treatment timer	1 s - 100 min

## Laser therapy parameters - biostimulation laser point probes

red light laser point probes wavelength	660 nm
maximum power of the red light point probes	80 mW
infrared laser point probes wavelength	808 nm
maximum power of the infrared point probes	400 mW
power regulation	25%, 50%, 75%, 100%
pulse mode frequency	1 - 5000 Hz
duty factor in pulse mode	5 - 90%, pulse 50 us

## Laser therapy parameters - scanning laser applicator

scanning laser applicator wavelength	808 & 660 nm
maximum power of the scanning laser applicator	450 & 100 mW
power regulation	50%, 100%
pulse mode frequency	1 - 5000 Hz
duty factor for scanning laser applicator pulse mode	75%

## Laser therapy parameters - cluster laser applicator

cluster laser applicator wavelength	4x 808 nm & 5x 660 nm
maximum power of the cluster laser applicator	4x 400 mW & 5x 40 mW
power regulation	50%, 100%
pulse mode frequency	1 - 5000 Hz
duty factor in pulse mode	5 - 90%, pulse 50 us

## Laser therapy parameters - high power laser applicators

high power laser applicator wavelength	808 & 980 nm
peak power output	max 18 W
average output power	max 10 W
pulse mode frequency	1 - 10 000 Hz
duty factor in pulse mode	1 - 90 %, pulse 50 us

## General technical parameters

dimensions	36,1 x 30,4 x 15,1 cm
device weight	6 kg
power supply, power consumption	230 V, 50 Hz, 130 W, 150 V