

Zimmer
MedizinSystems



Opton*Pro*

integrated High Power Class IV Laser up to 7000 mW

Opton*Pro*

Therapy at the speed of light

Application of high-power light for targeted penetration of energy deep into the target tissue.

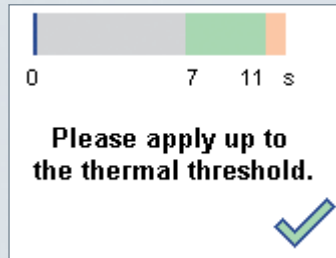
Fixed and custom programs, combined with simple operation and the high energy output of the Opton*Pro* enable highly effective treatment.

Indications

- temporary relief of minor muscle and joint aches, pains and stiffness
- temporary relief of muscle spasm
- temporary relief of minor pain and stiffness associated with arthritis
- promoting relaxation of the muscle tissue
- temporary increase in local blood circulation

Features

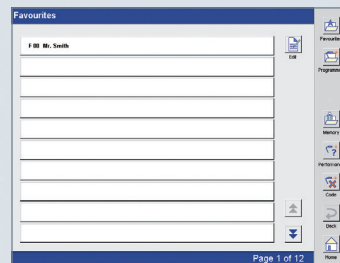
- 12" color touch screen display with intuitive menu
- direct multifunctional parameter access at all times
- security key lock and interlock
- update access and logbook via SD card
- extensive memory options (2 x 120 entries)
- performance test of the laser with integrated power control unit
- aiming beam



Safety

A thermal threshold test offers a tool to assess the warmth sensitivity and the feedback options of the patient.

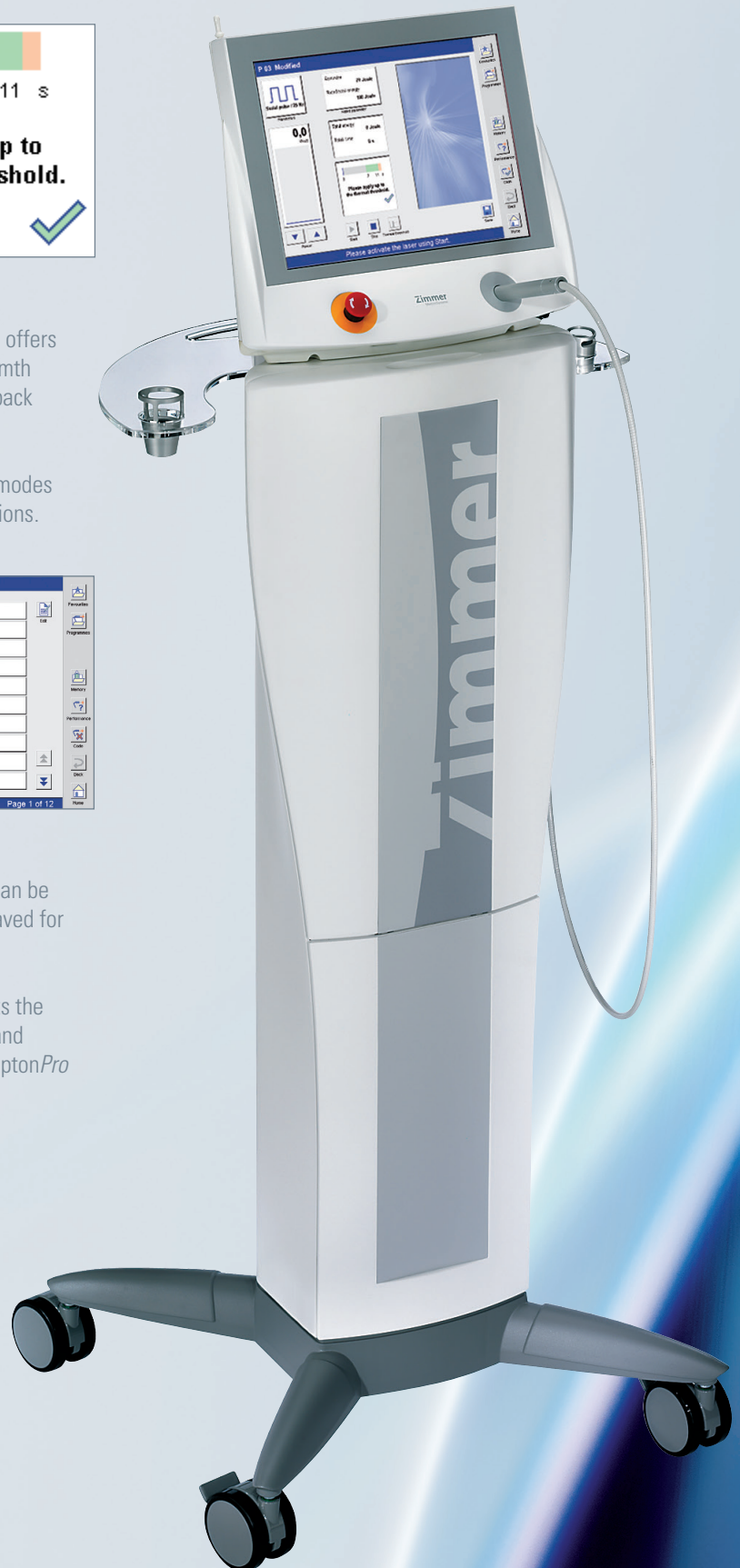
The different operating modes offer safe treatment options.



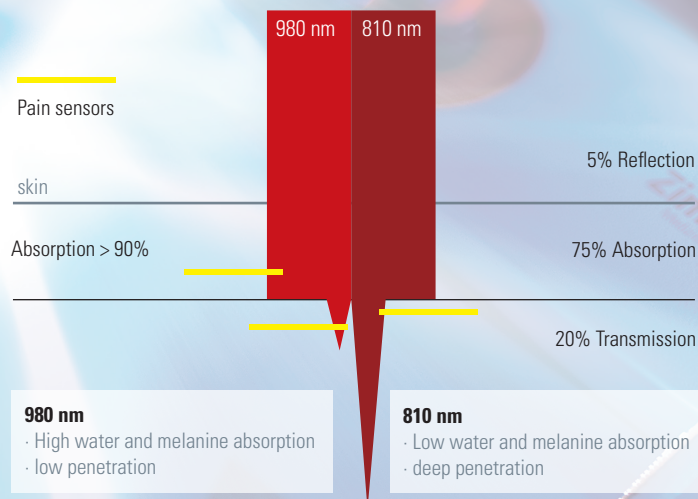
Support

Individual adjustments can be made at any time and saved for easy access.

A favorites menu collects the most common settings and shows them when the Opton*Pro* is started if required.



OptonPro wavelengths and interactions in the tissues



Laser applicator

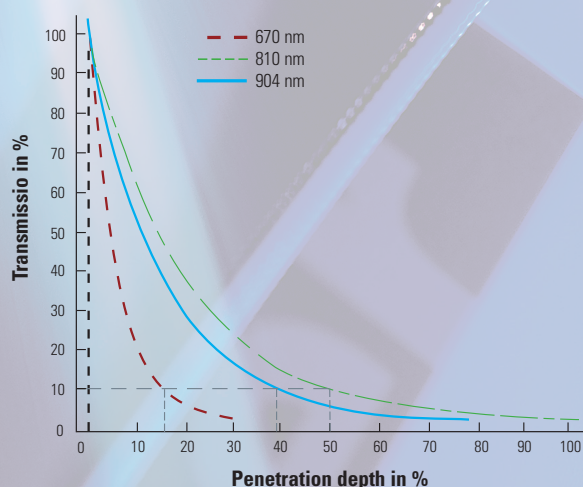
A laser applicator with an optical lens expands the laser beam to 43.44° and with direct skin contact provides a treatment area of 0.8 cm².



Spacers

Two magnetically attached spacers for a more comfortable treatment are available.

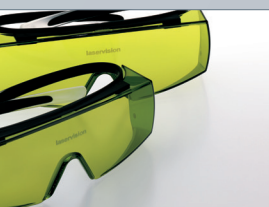
Depth Lambert-Beer's rule



Laser light, which is monochromatic and coherent, can be precisely adjusted and its behavior precisely defined. Absorption in injured tissue can be calculated precisely depending on the selected frequency, the composition of the tissue and the selected intensity.

Based on the absorption rate, which can be determined by the Lambert-Beer law, the OptonPro uses a system of four laser diodes with wavelengths of 810nm and 980nm, the absorption minima of melanin and haemoglobin, and a maximum radiation intensity of 7,000 mW (7W).

The optimum ratio of absorption and penetration depth guarantees efficient stimulation of tissue and pain receptors.



Technical data

Opton <i>Pro</i>	integrated class IV diode laser with fiber-optic applicator, touch screen user interface, safety functions: emergency off switches and operation by footswitch
Laser diodes	near infrared range, 4 units in parallel operation, wavelengths: 2 x 810 nm / 2 x 980 nm
Aiming Beam	650 mm
Emitted power	max. 7000 mW (7 W) continuous, unpulsed
Output spot size of applicator	10 mm (0.39 in)
Operating modes	continuous wave serial pulse
Programs	3 fixed programs, individually adaptable 120 memory slots for custom programs 120 memory slots for favourites security key lock and interlock energy meter with preset and reminder function thermal threshold test performance test
SD card	1 GB standard for memory, error logbook, backup and update
Operating voltage	100 - 240 V~, 50 Hz / 60 Hz
Power consumption	max. 200 VA
Protection class Applied part	II Type BF in accordance with IEC 60601-1
Dimensions (H x W x D)	H 30 cm, B 35 cm, L 20 cm H 11.81 inch, B 13.78 inch, L 7.87 inch
Weight	3.8 kg (8.38 lb)
Laser class	4, special regulations to be observed

Options

SysCart for Opton*Pro* with storage compartments and glass shelf

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