

# ENDOLASER 422



The Endolaser 422 is an advanced and modern designed unit for laser therapy with interchangeable laser probes. Laser therapy, also known as photobiomodulation, low level laser therapy (LLLT), cold laser therapy and laser biostimulation, is an effective method for:

- Pain management
- Wound healing
- Soft tissue injury treatment
- Nerve regeneration
- Skin treatment (esp. for Acne)
- Cosmetic regeneration

Laser is applied to the anatomical region of interest by means of a diode probe. This application can be static and very localized or dynamic for larger regions. In general a treatment only takes a few minutes. This effectiveness and the short application time make laser therapy with the Endolaser 422 a valuable part of a complete treatment session.

## LASERTHERAPY

Also called LLLT (Low Level Laser Therapy) or Soft Laser, is a form of light therapy in which the concentrated intensity of the bundled light can lead to effective tissue improvement.



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## TECHNICAL SPECIFICATIONS

Mains voltage:	230 Vac 50-60Hz ±15%
	115 Vac 50-60Hz ±15%
Max. Power consumption:	15 VA
Double fuse protection:	250 mA Rit 5x20 mm
Plug for Interlock/safety key (contacts normally closed)	6 contact DIN plug
Backlit LCD Display, to visualize and control operating parameters:	graphic 240x128 pixel up to 60 minutes
Programmable treatment time:	up to 60 minutes
Diode Laser Wave length for 25, 100, 400mW pulse diode:	905 nm
Diode Laser Wave length for 500 mW continuous laser diode:	808 nm
Laser classification according to EN-60825-1:	3B
MPE (Maximum permissible exposure):	5032.06 J . m -2
AEL (Accessible emission limit):	77.1 mW (class 3B limit)
Divergence:	107 mrad
NOHD (Nominal ocular hazard area) direct light:	2.89 meters
NOHD diffused light:	0.00 meter
IR radiation sensor for external laserprobe:	On front panel
Programmable impulse frequency:	10-10.000 Hz
Duty Cycle, only available with continuous laser diodes:	10-9900 Hz
Independent output channels:	2
Pre-programmed protocols:	82
Free programmable positions:	50
External dimensions (lxhxd):	29x28x11,5 cm
Weight of machine body:	3,2 kg



## STANDARD ACCESSORIES

3444290	Mains cable 230V-EUR
1422815	Protective goggles Endolaser 422-2x
1422750	Operating manual Endolaser 422

OPTIONAL ACCESSORIES		OUTPUT	PEAKPOWER
1422816	Laserprobe 25 mW, pulsed laser diode (LP025)	25 mW	25 W
1422817	Laserprobe 100 mW, pulsed laser diode (LP100)	100 mW	100 W
1422818	Laserprobe 500 mW, continuous laser diode (LP500)	500 mW	500 mW
1422819	Laser clusterprobe 400 mW, pulsed laser diode (CP400)	4 x 100 mW	4 x 100 W
3444814	Protective goggles Endolaser 422-Extra quality	-	-



## 1422911 ENDOLASER 422



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## STANDARD WITH 2 CHANNELS

The Endolaser 422 is a 2-channel unit. This allows for simultaneous treatment of two segments within a patient or even simultaneous treatment of two patients.

## DUAL PROBE LASER THERAPY

Another method that rapidly gains popularity is the simultaneous treatment of one lesion with both a diffuse application in the peripheral area and a very localized, intense application at the epicentre of the lesion. This central-peripheral dual probe laser therapy approach is extremely promising in several application areas.

## SEVERAL PROBES AVAILABLE

For treatment of small surfaces with monolaser there are diodes of 25, 100 and 500 mW. For a larger area it is possible to use a cluster of 4 diodes of 100 mW each-making it a 400 mW diode in total. The probes are interchangeable which has a positive influence on the total treatment time.

## SIMPLE USER INTERFACE

The unit is software operated. A treatment program can be created or adjusted in a few steps. By means of buttons and knobs the level of energy can be adjusted simply and accurately during treatment. After each adjustment of the protocol the dose is calculated instantly.

The Endolaser 422 is also provided with an extensive number of treatment protocols for the most common treatment modalities of laser therapy (over 80 protocols at the time of publication). Besides these protocols you can also create your own programs which makes the Endolaser 422 a very effective tool in your practice.

## SAFE

The Endolaser 422 is provided with a laser-test that allows for easy verification of the laser probe. This assures proper functioning of the machine and guarantees safe and accurate application of the laser energy to your patients.

Of course the Endolaser 422 is standard equipped with two pairs of safety glasses, one each for the therapist and for the patient, to protect the retina from the intense energy of the laser beam.

## TREATMENT AT THE SPEED OF LIGHT

The Endolaser 422 is a valuable addition to your practice allowing for effective results in short treatment times. Being an Enraf-Nonius product, the high quality of the Endolaser 422 assures years of proper functioning and good design.

With the Endolaser 422 you can treat your patients and clients at the speed of light!



## OTHER PRODUCTS THAT MIGHT INTEREST YOU

### EN-CAR U

The EN-Car U is your companion for any piece of Enraf-Nonius equipment. For laser, ultrasound, biofeedback, shockwave or electrotherapy, with the EN-Car U you have it all close at hand.

### ORDERING DATA

1468950 EN-Car U

Also see the separate product leaflets at  
[WWW.ENRAF-NONIUS.COM/ELECTROTHERAPY](http://WWW.ENRAF-NONIUS.COM/ELECTROTHERAPY)

