

COMBILASER

COMBILASER has been developed specially for treating Tinnitus.

COMBILASER should treat both ears at the same time with a total energy of 2x500 mW – 30 Joule/min. per. ear.
(Output 808nm: 1-500mW continuous variable).

COMBILASER has a timer function from 0 to 99 minutes that will stop treatment at the end of the session.

Treating Tinnitus with COMBILASER

Low Level Laser Therapy (LLLT) for tinnitus has been practiced for about 20 years in Europe and is beginning to be recognized and practiced in the US. There are indications it is very helpful for tinnitus and other inner ear conditions.

LLLT was first developed for inner ear diseases by Uwe Witt, MD of Hamburg, Germany in the 1980's. Lutz Wilden, MD, of the Center for Low Level Laser Therapy in Bad Fussing, Germany developed it further and brought it to a wide range of patients. Dr. Wilden's central thesis is that laser energy in the red and near infrared light spectrum is capable of penetrating tissue. It stimulates mitochondria in the cells to produce energy through the production of ATP (adenosine triphosphate). Mitochondria are the power supplies of all cells; they metabolize (burn) fuel and produce energy for the cell in the form of ATP. In stimulating the mitochondria, laser therapy can repair damaged tissue and return cells to a healthy state, reversing many degenerative conditions.

If Low Level Laser Therapy stimulates mitochondria to produce more energy, it could be extrapolated that it might also help repair damage to the cochlea and restore some degree of hearing loss, thereby reducing tinnitus.

The CombiLaser emit dual wavelength beams which are red and near infrared. These laser beams are cool to the touch and do not cause discomfort. They are aimed into the auditory canal and through the mastoid bone behind the ear. The wavelength nature of these lasers allows them to penetrate tissue. Although the laser beams loses intensity rapidly, these lasers can have an effect on tissues 2 to 5 cm inside the body.



COMBILASER is developed especially for the Tinnitus treatment. Laser treatment combined with relaxation treatment can, in many cases based upon research, relieve and moderate the Tinnitus. In some cases, it may remove the Tinnitus completely.

As a supplement, it is recommended to take Ginkgo Biloba or similar products, preferable one week before the first laser treatment.

COMBILASER technical specifications:

Wavelength	650 nm (visibel)
Laser diode	InGaAlP
Laser diode power	50 mW
Output power	2 x 50 mW, CW (2 x 3 Joule / min.)
Wavelength	808 nm (infrared)
Laser diode	GaAlAs
Laser diode power	500 mW
Output power	2 x 500 mW, CW ± 5% (2 x 30 Joule / min.)
Beam Divergence	1.0 – 1.5mRAD
Total output power	1000 mW 808 nm 100 mW 650 nm
No. of laser probes	4 separate point sources
Laser class	3 B
Product classification	2 a
Timer	0 – 99 minutes
Electrical input	100 – 230V – Fuse 2A T
Complies with	93/42/EG
Net weight	4,5 kg