

Compact CombiLaser

Compact CombiLaser has been developed specially for treating Tinnitus.

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

Compact CombiLaser has a timer function from 0 to several hours that will stop treatment at the end of the session.

Treating Tinnitus with Compact 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 Füssing, 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 Compact CombiLaser emits dual wavelength beams which are visible 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.



Compact 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.

Technical specifications:

Wavelength	650 nm (visibel)
Laser diode	InGaAlP
Laser diode power	100 mW
Output power	2 x 100 mW, CW (2 x 3 Joule / min.)

Wavelength	808 nm (invisibel)
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
200 mW 650 nm

No. of laser probes 4 separate point sources

Laser class 3 B

Product classification 2 a

Timer 0 – several hours

Electrical input 100 – 230V – Fuse 2A T

Net weight 2,1 kg

 The Compact CombiLaser system complies with the international ISO 13485 and is CE certified.