



HYPER DIODE 1064

The Latest in Podiatry for Onychomycosis



FOR PATIENTS

- Quick and safe
- No pain
- No contraindications
- No side effects
- No local anesthesia is required
- Does not harm the nail or skin
- Shoes and nail polish can be worn immediately after treatment
- Near-IR radiation therapy is safer than teratogenic UV therapy
- No toxic smokes typical of pulsed lasers, is generated by photoablation
- No photosensitizing agents are required

The unique clinical and technical solution for patients and doctors. Internal Ethernet connection for remote diagnostic and clinical data sharing

FOR PODIATRISTS

- Laser is maintenance-free
- No consumables



Specifications

Model	Hyper Diode 1064
Wavelength	1064nm
Max Power	30W
Mode	Continous, pulsed, single pulse, pulse sequence
Repetition rate	From 0.2 to 4000 Hz
Pulse width	From 125 μs to 99 s
Beam delivery	Optical fiber + handpiece
Optical fiber	Length 2m SMA connector
Spot size	from 1 to 6 mm
Aiming beam	Red adjustable <4mW @ 635nm (class 3R)
Mains	115-230Vac, 50-60 Hz, 2.6-1.2A
Dimensions	360 mm (W) x 330 mm (D) x 185 mm (H)
Weight	13 Kg

Onychomycosis

Onychomycosis is a fungal infection of the nail and its prevalence is about 6% in the adult population. The causative pathogens of onychomycosis include dermatophytes like Trichophyton (rubrum, interdigitale, Epidermophyton floccosum), but also molds and yeasts like Candida.

Complete treatment of onychomycosis is challenging because the infection is embedded within the nail and is difficult to reach; full removal of symptoms is slow and may take a year or more.

Most treatments are either systemic or topical antifungal medications.

These antifungal treatments achieve modest clinical results and, in addition, can cause common side effects like headache, skin and gastrointestinal disorders.

A novel non-invasive laser approach

A novel non-invasive approach includes the irradiation of a laser beam, whose wavelength is absorbed by microbial pathogens on a specific area. The absorbed energy is converted into heat and the consequent temperature increase deactivates the pathogenic micro-organism without damaging the surrounding tissues.

The specific wavelength of 1064nm deactivates the parasitic organism; moreover, the pulse width of the laser beam, in the order of ms, is lower than the skin relaxation time (of the order of 10 ms) and this allows the thermal confinement of the absorbed energy and the consequent painless treatment.

The Hyper Diode 1064 laser is supplied with an optical fiber, handpiece and safety goggles in a suitcase for the easy transportation of the device.



Hyper Photonics products are manufactured according to the International Standards and have been cleared by the most important International notified bodies. The company is EN ISO 9001-2015 and EN ISO 13485-2016 certified. It is specialized in manufacturing of lasers and opto-electronics devices.



ACCESSORIES

Optical Fibers

3-6 mm fix handpiece

1-6mm zoom handpiece

Safety goggles

Suitcase



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