

QMD® HELIOS LASER

The laser is a source of electromagnetic bright radiation. Thus, the laser therapy is based on the possibility of providing electromagnetic energy to tissues in the form of photons, with recognized therapeutic effects. Laser devices are finding increased use in rehabilitation medicine thanks to the solidity of the scientific demonstrations about the biological and therapeutic effects of this form of energy. This has recently given a great impulse to the research for further technical developments, which were referred to the realization of high-power devices, which allow deeper penetration of energy and a more rapid and more enduring effect on the pain, on inflammation and on stimulation of reparative processes. In particular, studies conducted by the group of Prof. Karu have shown that within the therapeutic window (the wavelength band that allows the absorption of electromagnetic radiation by the tissues, or 600 - 1200nm), the stimulation with different wavelengths reaches and activates selectively different triggering receptors. Consequently, we obtain different biological effects.

qmd® Laser Devices

The qmd® laser device can provide light in all modes currently possible:

- continuous wave
- pulsed wave
- super pulsed wave
- and a particular form, the frequency scanning, called qmd® harmonic pulsation, an exclusivity of qmd®

So, the qmd® devices don't produce only analgesic effects by a super pulsed mode, but by being able to dispense in all modes, they produce the following effects:

- anti-inflammatory on articulation and muscles
- analgesic on nerve fibers
- bio-stimulating and regenerating on soft and connective tissues
- vasodilating on the microcirculation (thus, improves peripheral circulation)
- anti-inflammatory and anti-edemigilous (you achieve an immediate resorption of inflammation mediators and of any liquid accumulation)



Thanks to their versatility, the qmd® devices can be used for various pathologies, such as:

- rheumatoid arthritis
- chronic neck pain
- articulation pains (for example in the shoulder area, elbow, wrist)
- carpal tunnel syndrome
- back pain
- arthrosis
- but especially inflammation of tendons and ligaments

ORDERING DETAILS

CODE:	DESCRIPTION
Q 0105	Helios Laser Thermal

Whereas all qmd[®] laser are equipped with the particular 1064nm wavelength, the most advanced models have additional wavelengths. Moreover, they also differ regarding the transmitting power. All models have a large color touch screen of 10.1" and an intuitive and easy-to-use software. They dispense in continuous mode, pulsed mode, super pulsed mode and in the frequency scanning, called qmd[®] harmonic pulsation, an exclusivity of qmd[®].

qmd[®] EOS Basic

Therapeutic laser 1064nm, 8W, without trolley, easy portability, equipped with standard kit.

qmd[®] EOS

Therapeutic laser 1064nm, 8W, complete with trolley for easy movement, equipped with standard kit.

qmd[®] EOS Plus

Therapeutic laser 1064nm 15W, with more power and faster and more effective treatments, equipped with trolley and standard kit.

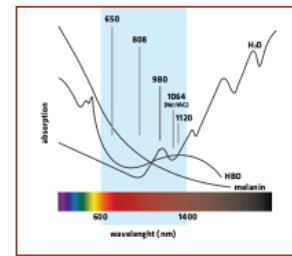
qmd[®] Ares

2 wavelengths individually controllable allow more targeted treatments: laser therapy 808+1064nm 18W, equipped with trolley and standard kit.

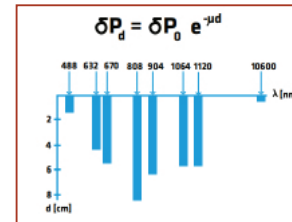
qmd[®] Helios

The top of the qmd[®] range: therapeutic laser 808 + 1064 + 1120nm 24W, complete with trolley and standard kit.

The three wavelengths are individually controllable. Thus, for example, in an analgesic treatment, a wavelength issues a super pulsed stimulus (most of the laser devices make only this!); the second wavelength issues, simultaneously, a pulsed stimulus of the same frequency of the molecule / target mediator; and the third issues a scanning of the frequencies to hit at the same time all mediators and molecules marginally involved. In this way, we are able to treat pain with triple simultaneous actions. Another special feature of this device is the wavelength 1120nm,



Therapeutic Window



Beer-Lambert law



which acts primarily on serotonin, on dopamine (pain neurotransmitter) and on P substance (muscles).

Kit

The unit is completed with the S and M spacers, the foot switch and two pairs of goggles. The device is equipped with USB ports to allow remote assistance and remote software updates without having to remove the device from your medical office.

Accessories

- qmd[®] laser arm including spacer L and hand piece with manual stop button;
- qmd[®] cryo-thermal module;
- qmd[®] bag for easy and safe movement of your pc unit from your qmd[®] device.