

# Dermatology

## 3mikron™ - High-power, diode pumped laser technology (2 - 3 μm)

3mikron™ enables for low output power to reach gentle and exact treatments in dermatology and aesthetics, while at the same time minimizing the risk of undesirable thermal damage. 3mikron™ combines the benefits of traditional Er:YAG and CO<sub>2</sub> lasers, having increased thermal impact compared to classical Er:YAG and reduced pain and carbonization compared to CO<sub>2</sub>.

3mikron™ impresses with its high degree of flexibility. It enables cold ablation with high energy pulses and high thermal impact by heat stacking with a series of low energy pulses. A few high energy pulses can open the skin and drill into the target skin layer, dermis. Then a series of low energy pulses can heat the dermis for strong rejuvenation effect, which is comparable to the effect of a CO<sub>2</sub> laser. Furthermore, the repetition rate can be 2 kHz and allows therefore using a beam deflection unit for sequential pore drilling instead of using multi-lense arrays. This results in a homogeneous pore distribution, variable pore densities and very high energy respectively thermal impact per pore (25 times higher energy compared to traditional Er:YAG lasers with multi-lense arrays).

### APPLICATION BENEFITS

- . Combines benefits of traditional Er:YAG and CO<sub>2</sub> lasers
- . Cold skin ablation for fast healing
- . High thermal impact per pore
- . Variable pore density
- . Homogeneous distribution of pores
- . Reduced down-time period
- . Perfect for applications in aesthetics and dermatology

