

## UltraPulse CO2 laser

UltraPulse CO2 laser is a versatile skin resurfacing tool. It delivers 6 times more power of most of the CO2 lasers in market. It can reach the maximum deep to 4.0mm, which is 4 times of the general CO2 laser machines. It has 34 FDA-approved indications for aesthetics and surgery.

Fractional Laser creates microscopic channels that break down the rigid fibers in the scar and trigger the production of new collagen and elastic fibers, while leaving some unaffected skin in between the channels to reduce healing time. The result in deep dermal regeneration dramatically improves the elasticity and appearance of scars.

It comes with various treatment modes, including SCAAR FX, DeepFX and ActiveFX mode, for different skin conditions, ranging from wrinkles, acne scars, rhinophyma to surgical scars. It was proven to improve the tissue structures, pliability and texture of the scar.

Depending on the characteristics of the scar, it may take 3-5 treatment sessions to achieve major cosmetic and functional improvements. A major improvement in pliability is often achieved after the first treatment. Typically, you should expect to continue to see improvement for up to 18 months following the last procedure.



### For Scar:

Scars are rigid, fibrous formation of skin, resulting from the body's natural healing response following injury or trauma.

### The Definition of Scars, Causes and Types

Wound healing is a natural, complex and dynamic restorative response to tissue injury. Normal wound healing fills the gap of destroyed tissue and restores the structural continuity of the injured part. Scars are rigid, fibrous formation of skin, resulting from the body's natural healing response following injury or trauma.

#### ➤ Hypertrophic Scars:

Thickened raised scars develop within the boundary of the original wound due to excessive synthesis of fibrotic tissue after injury, such as laceration, abrasion, surgery. Scars may continue to thicken for up to 6 months post injury and usually regress over one or two years. Scars often contain high concentration of nerves and blood vessels and result in pain and itchiness.

#### ➤ Keloid:

Keloid is a result of an overgrowth of granulation tissue extends beyond the boundary of the original wound, and sometimes accompanied by severe itchiness, pain and affect mobility.

➤ Contracture Scars:

Contracture scars result from a major burn, besides extensive tissue damage, they also have uneven induration and depth. Contracture develops when normal elastic connective tissue is replaced with non-elastic fibrous tissue during the remodeling phase of wound healing. Permanent tightening of skin may affect the underlying muscles and tendons which limits mobility and possibly leads to damage or degeneration of nerves.

➤ Acne Scars:

Acne scars are a consequence of prolonged inflammatory acne outbreak that causes damage in and around the pilosebaceous follicle. Atrophic acne scars are much more common than hypertrophic acne scars. Major types of atrophic acne scars are rolling, boxcar and ice-pick.

For Skin Rejuvenation

With UltraPulse, your physician can offer you improvement on a range of skin aging concerns, from deep wrinkles to fine lines and uneven skin tone and texture. Fractional laser creates microscopic channels that trigger the production of new collagen and elastic fibers, while leaving some unaffected skin in between the channels to reduce healing time. The result is deep dermal regeneration that dramatically improves the elasticity and appearance.

