What's the Secret of **FRAMS**?

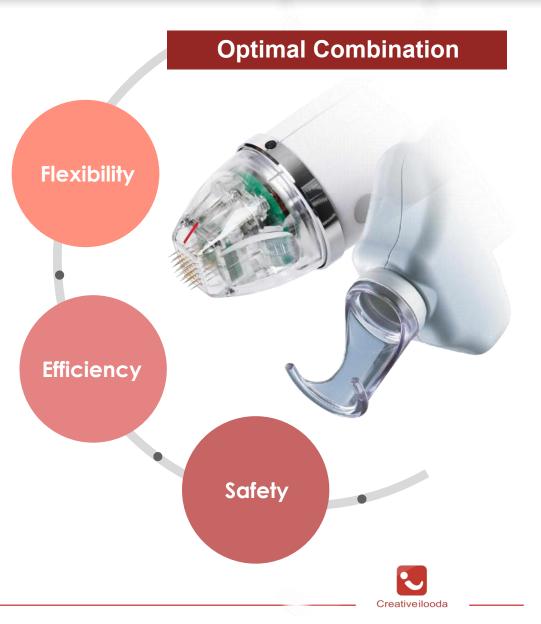
High-powered Fractional CO₂ Laser and Micro-needle RF System



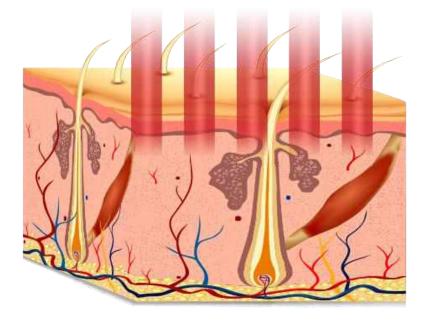


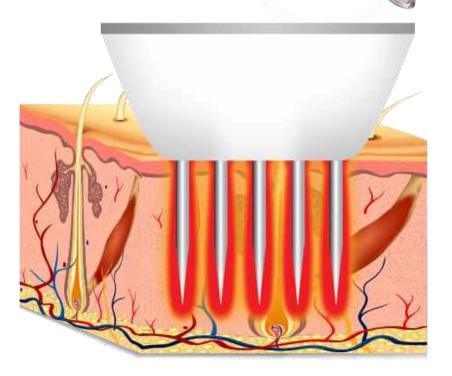
What is FRAXIS DUO?

combined fractional CO₂ laser and micro-needle bipolar RF device that delivers optimal result for the reduction of scars, rejuvenation of photo-aged skin and striae distensae. The fractional CO₂ technology of the FRAXIS DUO enables superficial epidermal resurfacing and works in combination with a micro-needle bipolar RF system providing higher volumetric heating and deeper heat diffusion into the dermis. These dual modalities permit the treatment of all skin types and the flexibility to treat a larger range of applications, at the same time increasing the effectiveness of the treatment and reducing its side-effects. This combined therapy is an effective and better choice for the treatment of striae distensae through skin resurfacing and state-of-the-art dermal remodeling technology.



Why Combination Therapy?





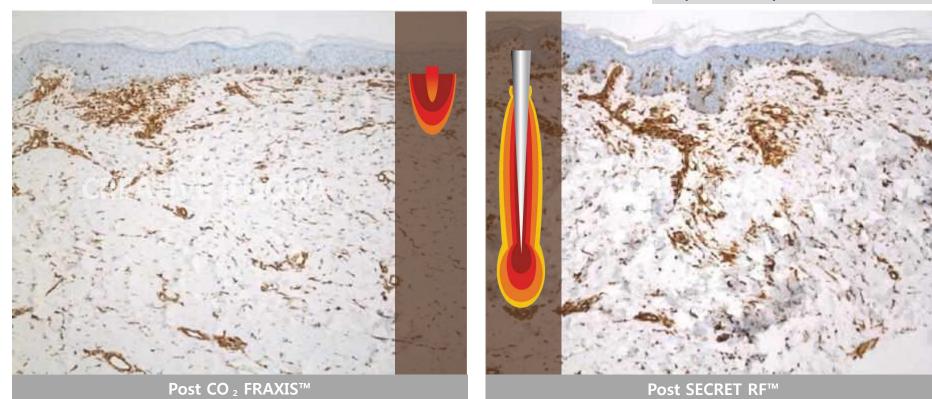
- Fractional CO₂ enables intense superficial resurfacing and micro-needle bipolar RF provides higher volumetric heating and deeper heat diffusion up to 3.5mm customisable to various treatment target areas
- The complementary effects will encourage physicians and therapists alike to utilise both technologies for a more effective treatment of various indications



Clinical Differences Fractional CO2 vs Micro-needle RF

Vimentin Immunohistochemical analyses at 15 days after application CO2 FRAXIS[™] vs SECRET RF[™]

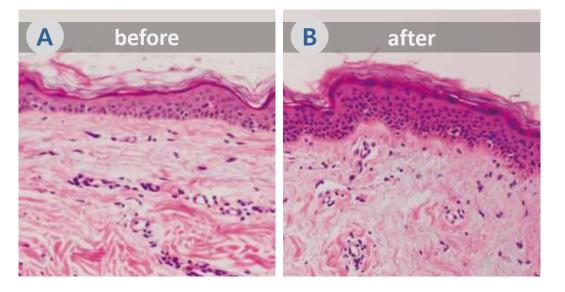
Biopsies courtesy of Michael Naouri MD



The histology analyses show an intense superficial fibroblast stimulation with CO₂ but a middle and deep fibroblast stimulation using micro-needle fractional RF



THE CLINICAL EFFECTS OF COMBINATION THERAPY

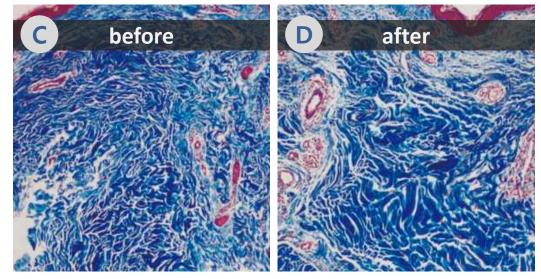


Thickened epidermis and dermal remodeling post micro-needle RF with CO2 laser treatment

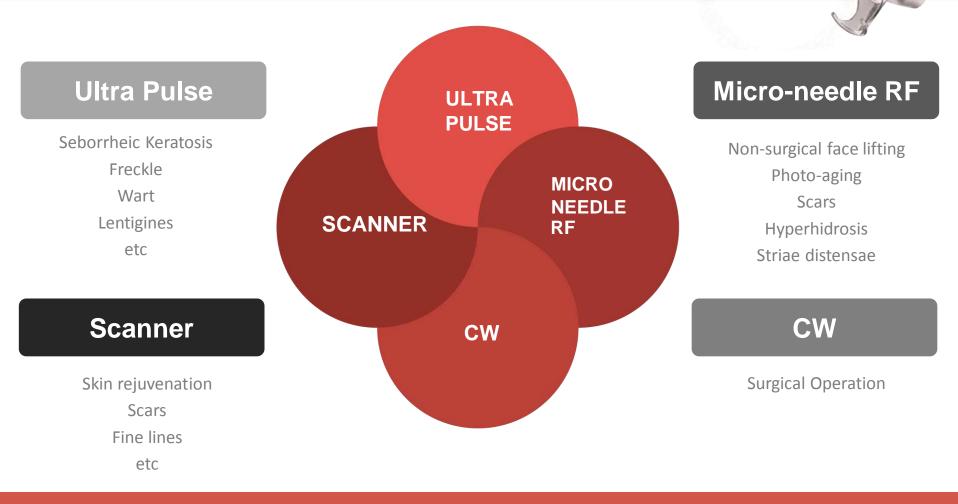
Biopsies courtesy of Jae-We Cho MD

Note the thickened epidermis (B) and increased and thickened collagen bundles in the dermis (D), compared to base line (A, C), respectively.

(A, B: hematoxylin and eosin, X 100; C, D: Masson trichrome stain, x 40).

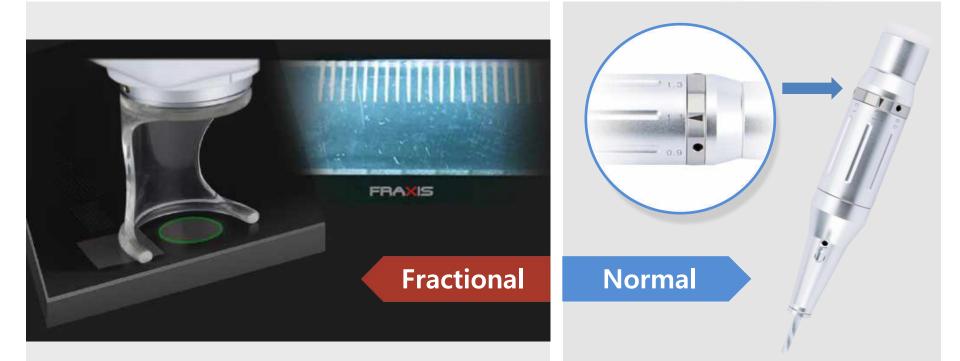


THE BENEFITS OF DUAL MODALITIES



With dual energies and various modes it enables physicians to easily select the most effective mode and energy depending on a variety of conditions on all skin types with very low risk of burns and PIH

FEATURES OF CO₂ LASER



• With 30 watt high power RF tube, the uniform and stable laser beam with $100 \sim 120 \mu m$ spot size reduces thermal damage and any unpredictable side effect for an optimal treatment effect

• Smart surgical handpiece with multiple spot sizes enables physicians to easily treat superficial lesions (Seborrheic Keratosis, lentigines...) and more accurate treatment on warts

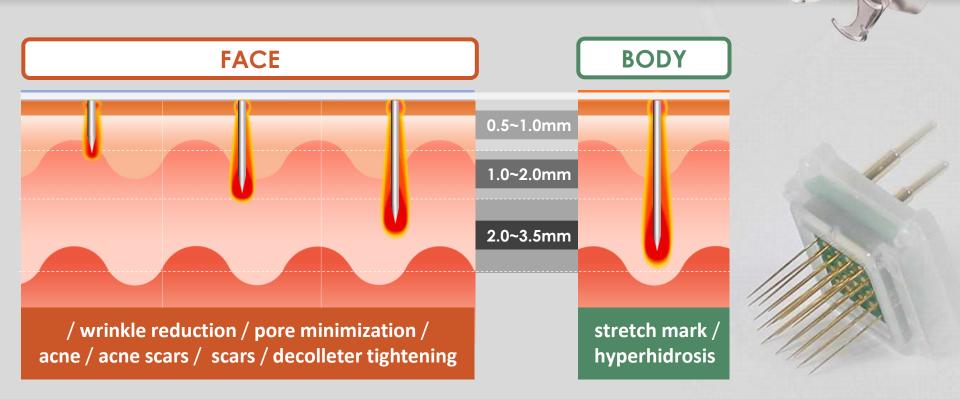


ADVANTAGES OF CO2 LASER

Various Shape and scanning modes Adjustable handpiece size Shape Scan CIRCLE ELLIPSE 1.3 Diagonal Even/odd Convergence Sequence RECTANGULAR SQUARE Random / Sequence Diagonal Even/odd Scatter TRIANGLE HALF CIRCLE Fractional Normal **Shape** : more than **6** types / **Scan Mode** : **9** types Adjustable spot size : 7 spot sizes Provides customisable treatments 4 types of surgical mode : CW, Pulse single, Pulse, Ultra pulse Minimizes thermal damage and side effects Easy to select spot size and pulse mode Maximizing treatment effect



FEATURES OF MICRO-NEEDLE RF



- Micro-needle penetration depth can be adjusted from 0.5 to 3.5mm based on treatment target areas for the treatment of skin lifting, tightening and rejuvenation e.g. hyperpigmentation, wrinkle, acne, acne scar and pore reduction treatments.
- Delivered RF energy is tightly focused at the edge/tip of the micro-needles, leading to far less trauma to the surrounding epidermis. This leads to far less downtime and pain for the patient as compared with a conventional CO2 fractional laser.

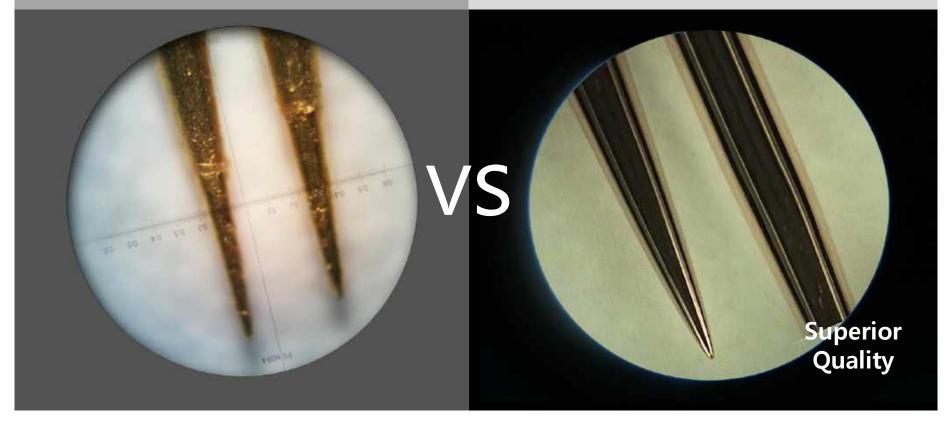


ADVANTAGES OF MICRO-NEEDLE RF

Gold-plated & Non-insulated for superior performance

COMPETITOR

Secret[™]





SPECIFICATION OF FRAXIS DUO

CO2 Fractional Laser System

Wave length	10,600nm (TEM00)
Laser power	Up to 30W (Up to 175mJ)
Pulse duration	20-5,000us
Overlap	1 - 10 th
Pixel size	≥100 micron
Distance	0.1 - 2.0mm
Treatment area	1x1 - 20x20mm
Pixel quantity	Up to 40,401
Repetition	0.2 - 2Sec / Single
Normal handpiece (option)	0.2, 0.3, 0.5, 0.7, 0.9, 1.1, 1.3mm

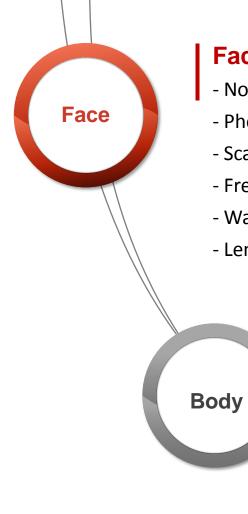
Micro-needle Fractional RF System

RF Frequency	2MHz ±10%
RF Power	Up to 25W ±10%
Treatment duration (RF Emission)	50ms ~ 950ms
Intensity	0 - 100 Level (2/5/10 Step)
Needle thickness	0.25mm
Needle figure	25 electrode needle (5x5),
Treatment area	25Pin (8.05 x 8.05mm),
Adjustable depth	0.5 ~ 3.5mm(0.1 step)
Repetition	0.2 / 0.5 / 1 / 2 Sec / Single
Electrical power	100 ~ 240VAC, 50/60Hz



APPLICATION OF FRAXIS DUO

√ TREATMENT AREAS



Face Treatment

- Non-surgical Face Lifting
- Photo-aging
- Scars
- Freckle
- Wart
- Lentigines





CASE STUDIES

Michaël NAOURI, M. D.

Centre Laser International de la Peau - Paris, Centre Laser - Nogent sur Marne, Nogent sur Marne, France

• Using micro-needle fracitonal RF

- Atrophic Scars
- Acne Scars
- Photo-aging
- Using CO2 laser
 - Onychodystrophy
 - Wart

Jae-We Cho, M.D., PhD.

Department of Dermatology, Laser and Esthetic Center, Keimyung University School of Medicine, Korea

- Using combination therpay
 - Striea Distensae



I DR. M. NAOURI I HYPERTROPHIC SCARS USING MICRO-NEEDLE RF



Before



After 2 sessions



I DR. M. NAOURI I ATROPHIC SCARS USING MICRO-NEEDLE RF



Before

After 1 session



I DR. M. NAOURI I ACNE SCARS & ENLARGED PORES USING MICRO-NEEDLE RF



Before

After 3 sessions



I DR. M. NAOURI I PERIORBITAL & NASOLABIAL FOLD USING MICRO-NEEDLE RF





Before

After 3 sessions



I DR. M. NAOURI I ONYCHODYSTROPHY USING CO2 LASER





Before

After 4 sessions



I DR. M. NAOURI I WARTS USING CO2 LASER

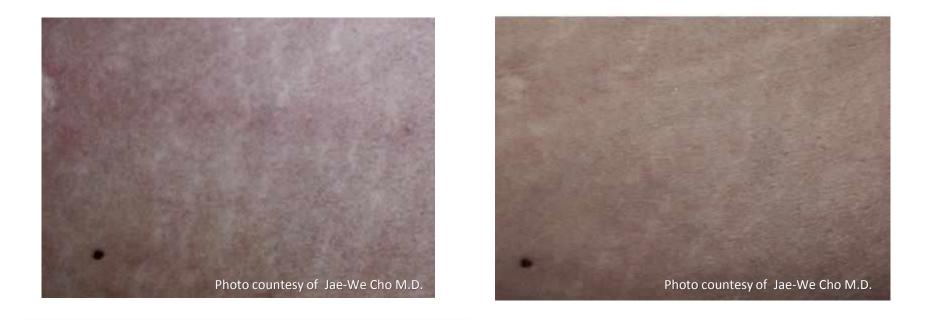


Before

After treatment



I DR. Jae-We Cho I STRIAE DISTENSAE ON THE BUTTOCK USING COMBINATION THERAPY



Before

6months after final treatment



I DR. Jae-We Cho | STRIAE DISTENSAE ON THE KNEE USING COMBINATION THERAPY



Before

6months after final treatment



I DR. Jae-We Cho I BURN SCARS USING COMBINATION THERAPY



Before

After 3rd treatment

