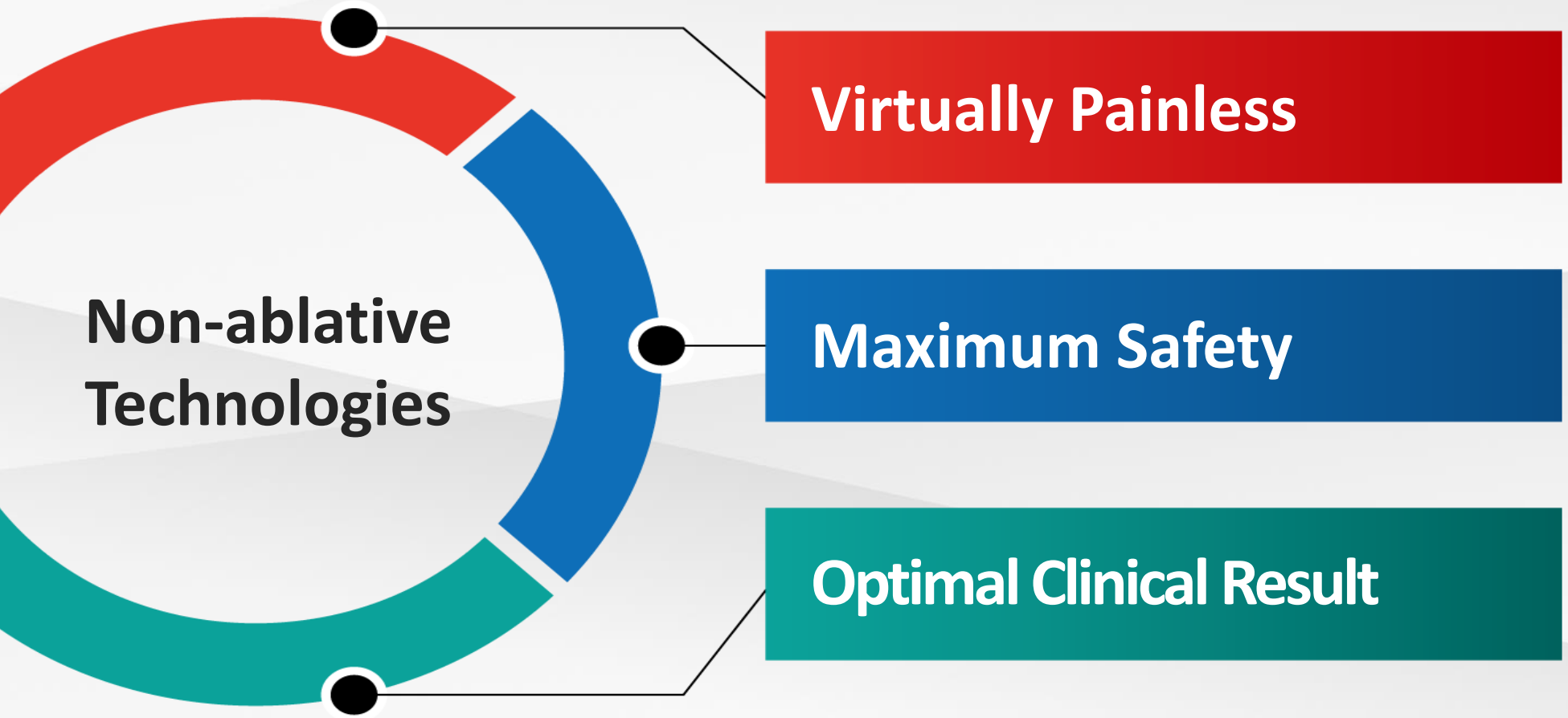


Fractional 1540nm Er:GLASS LASER  
*plus* Microneedle RF

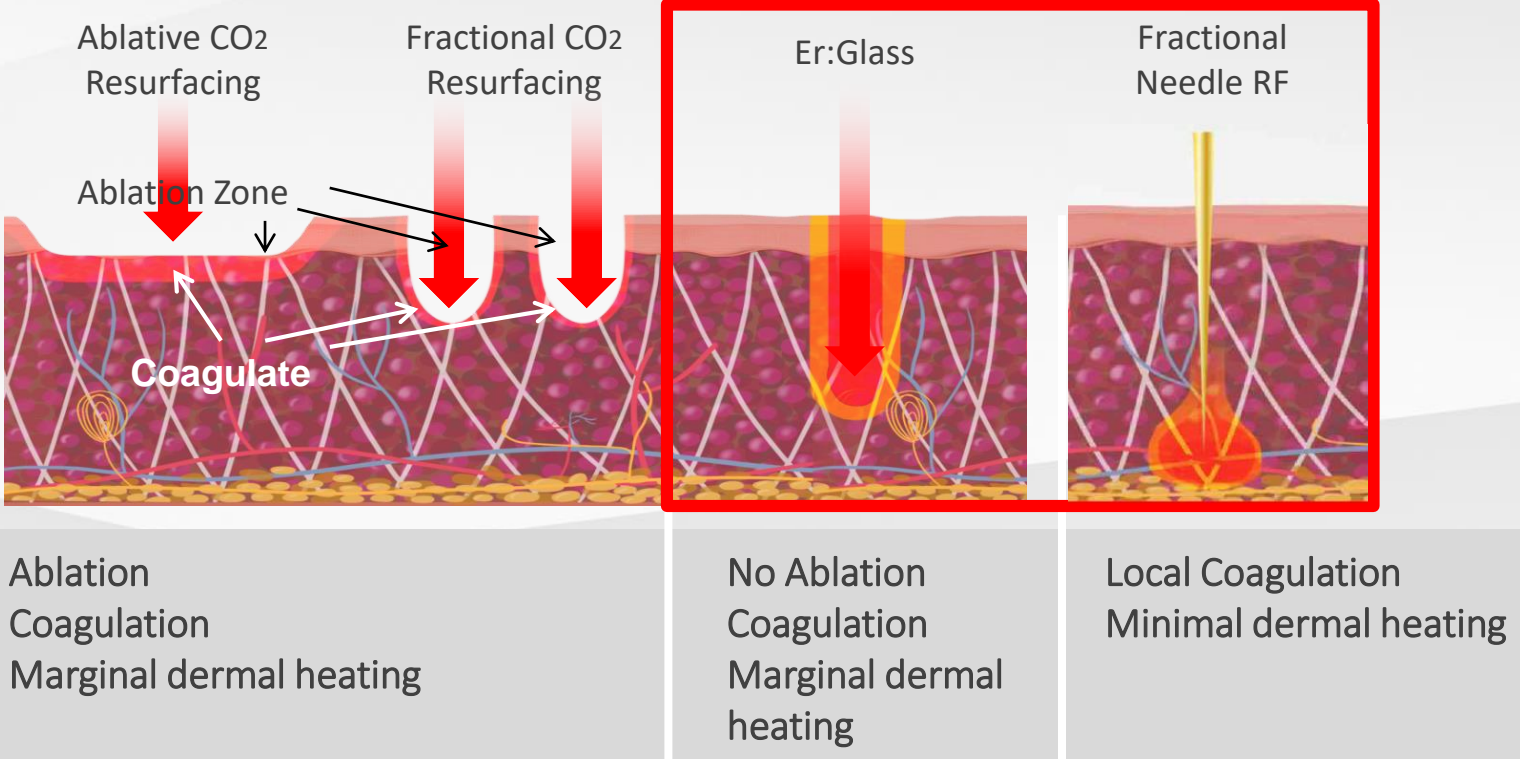
# Secret DUO

The ULTIMATE  
Non-Ablative Multi-platform  
for Skin Remodeling and Rejuvenation

# Today's Patient's Demands; PAINLESS Treatment with MINIMAL Downtime and Great Result



# Benefit; Non-ablative Technologies



Non-ablative fractional resurfacing technique makes it a much gentler process with significantly reduced downtime and recovery time comparing to the conventional ablative fractional laser.

# Benefit; Non-ablative Technologies

Immediately after Fractional CO<sub>2</sub>



Immediately after non-ablative technology



Downtime of Redness after non-ablative treatment within usually 4 days

# Secret DUO, Non-ablative Technologies BEYOND The Current Trend

## Secret DUO

ULTIMATE Non-Ablative Multiplatform System



SECRET DUO offers DUAL Non-ablative Fractional Technologies of Micro-needle RF and 1540nm Erbium glass laser in a SINGLE device as a Total Solution of aesthetic treatment. These Two Technologies can work Individually or in Combination treatment to give the Optimal Treatment Flexibility to all patients.

# Secret DUO Meet the Demand for a Total Solution of Aesthetic Treatment

## INDICATIONS

### **1540nm Fractional Laser**

---

- Non-Ablative Skin Resurfacing
- Active Acne
- Atrophic Scar
- Acne Scars
- Wrinkle Reduction
- Skin Lifting & Tightening
- Tone & Texture Improvement

### **RF micro-needle fractional**

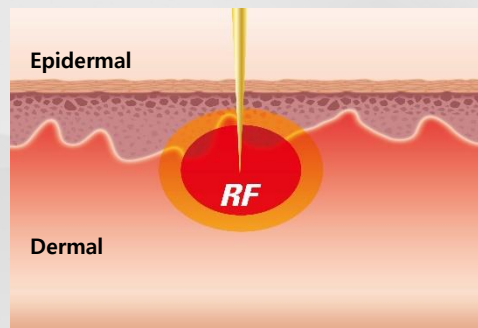
---

- Non-surgical Face Lifting
- Skin Tightening
- Wrinkle Reduction
- Pore Reduction
- Acne Scars
- Scars
- Spider Veins
- Stretch Marks

# Advantages; Non-ablative Dual Technologies

## RF Micro-needling

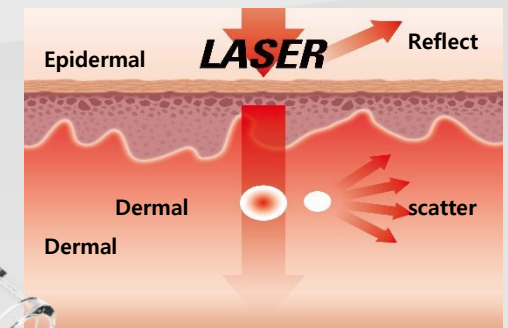
Accurate penetration depth control up to 3.5mm  
Minimal Invasive process  
High and deeper volumetric heating



VS

## 1540nm Laser

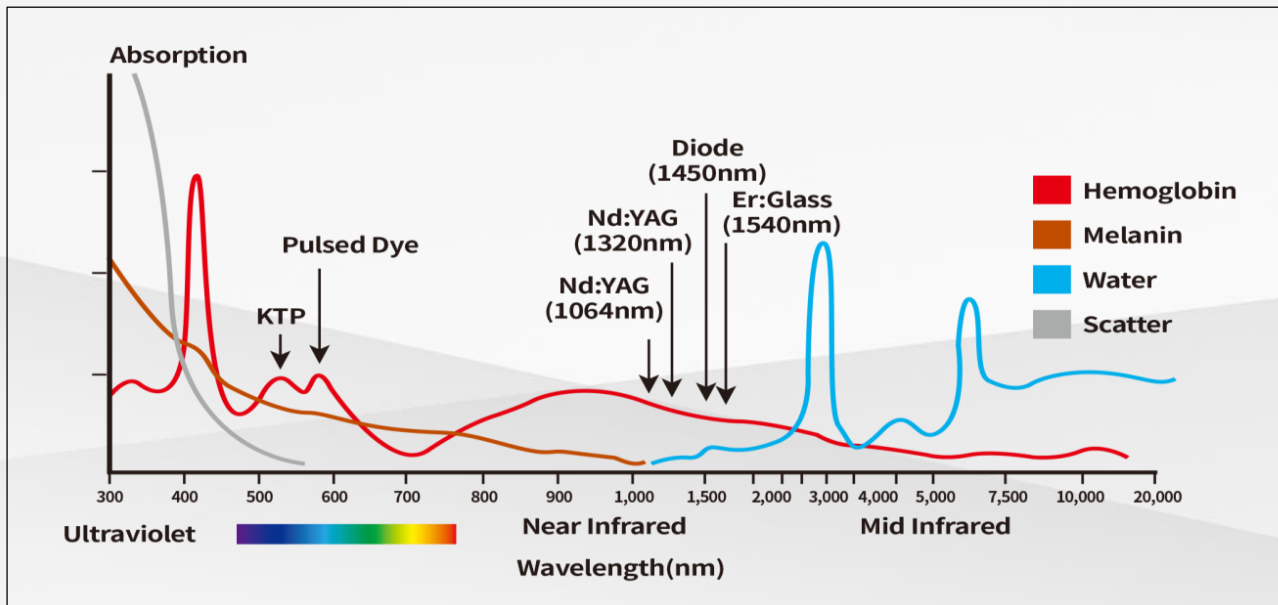
Low absorption rate of water, deep penetration  
No vaporation, Gentle treatment process  
Wide and greater volumetric heating



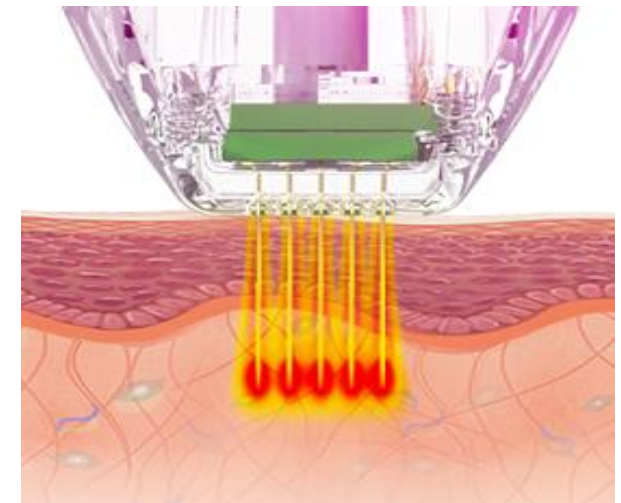
The 1540nm erbium glass laser in infrared spectrum creates the dermal heating without any damage on the skin surface and micro-needle fractional RF provides deeper heat diffusion with minimally invasive micro-needles.

# Advantages; Non-ablative Dual Technologies

1540nm wavelength



RF micro-needling



Non-ablative resurfacing goes into the deeper layer of the skin with minimal risk of side effect.



# Clinical Trial Result

## 1540nm Er:glass

Secret DUO -1540nm Hand piece  
Fluence: 13mJ  
Distance: 0.8mm  
Scan Mode: Scatter  
Pattern: Circle  
Others: 4 passes, no topical agent  
Indication: Acne Scars

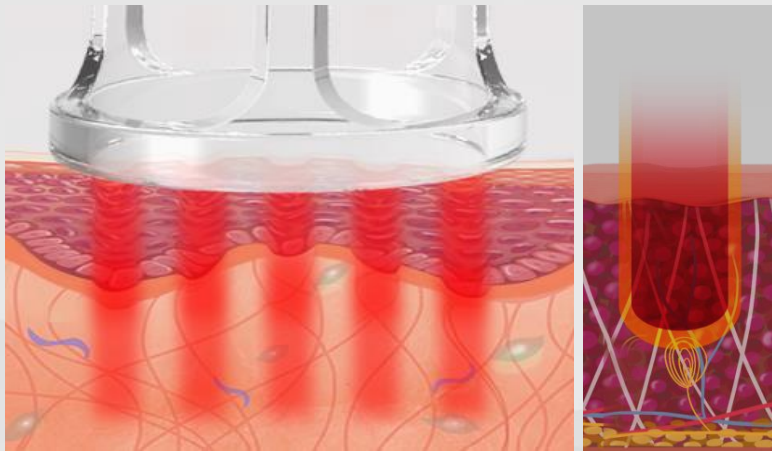


Before

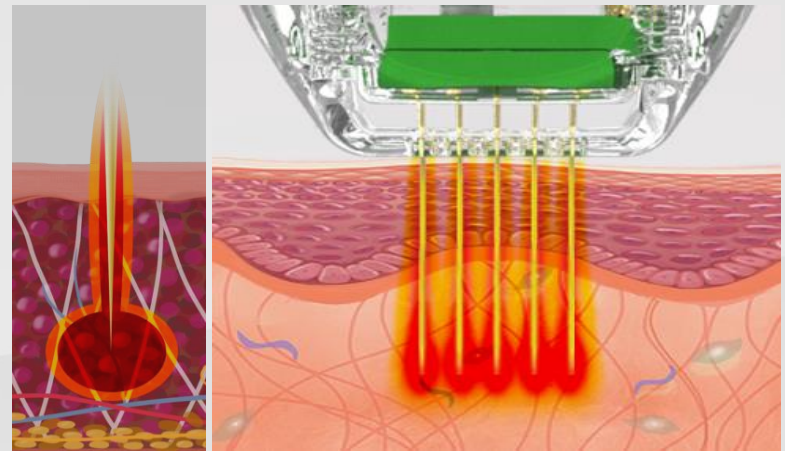


After 1 session

# The ULTIMATE Synergy of Non-ablative Dual Technologies



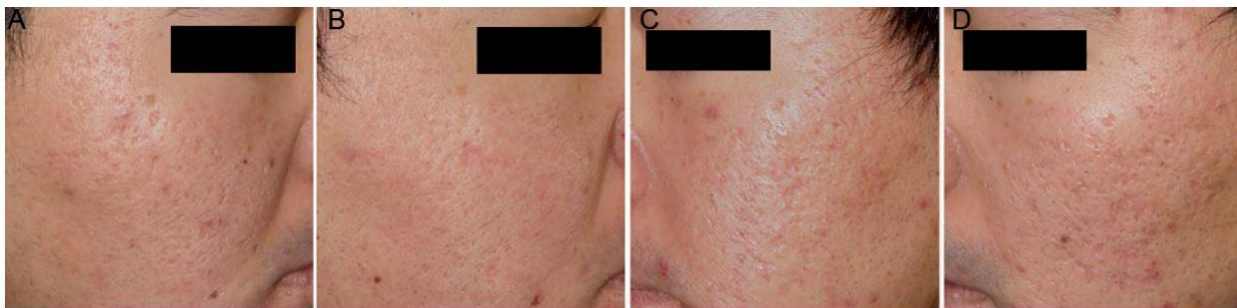
**Er:Glass Non-ablative Fractional Resurfacing**



**RF Micro-needle Fractional Resurfacing**

The 1540nm erbium glass laser in infrared spectrum creates the dermal thermal heating in multiple micro-columns without any damage on the skin surface and micro-needle fractional RF provides higher volumetric heating and deeper heat diffusion with minimally invasive micro-needles.

# Clinically Proven Result; Non-ablative Dual Technologies



**Fig. 3. Clinical photographs revealed the improvement of acne scars by both therapeutic modalities.** (A, B) combination regimen-treated side of the face. (C, D) non-ablative fractional laser (NAF)-treated side of the face. (A, C) Before treatment. (B, D) Eight weeks after 3 sessions of treatment. Though some improvement was observed in NAF-treated side, a more prominent improvement in acne scars was noted on the combination regimen-treated side of the face.

**“ Our histological analysis in support of these mechanistic insights demonstrated that the combination regimen induces greater increases in the extent and thickness of interstitial fibers throughout the whole dermis, as compared with NAF along.”**

## Combined Fractional Treatment of Acne Scars Involving Non-ablative 1,550-nm Erbium-glass Laser and Micro-needling Radiofrequency: A 16-week Prospective, Randomized Split-face Study

Yuck Hoon KWON<sup>1</sup>, Hae Young PARK<sup>1</sup>, Sun Chul CHOI<sup>1</sup>, Youin BAE<sup>2</sup>, Jae Yoon JUNG<sup>1</sup> and Gyeong-Hun PARK<sup>2</sup>  
<sup>1</sup>Jaeo Dermatology Clinic, Seoul, <sup>2</sup>Department of Dermatology, Dongtan Sacred Heart Hospital, Hallym University College of Medicine, Waseong, Korea

An optimized therapeutic regimen involving a non-ablative fractionated laser or radiofrequency therapy for acne scars has not yet been established. To evaluate whether the combination of a non-ablative fractional laser (NAF) and fractional micro-needling radiofrequency (FMR) has clinical advantages for the treatment of atrophic acne scars compared with NAF alone, a 16-week prospective, randomized split-face study was performed. Each facial side of a patient was treated with 3 sessions of either NAF with FMR or NAF alone, with a 4-week interval between each session. Although both sides demonstrated significant increases in the échelle d'évaluation clinique des cicatrices d'acné (ECCA) score, the facial side treated using the combination regimen demonstrated greater improvement in ECCA score regarding degree and onset time than the NAF-treated side. Histopathological and immunohistochemical results confirmed the clinical findings. This study demonstrated that a combination regimen involving NAF and FMR could be a viable option with satisfactory efficacy.

**Key words:** acne scars; fractional photothermolysis; laser surgery; radiofrequency.

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Facial atrophic acne scarring, a permanent sequelae of acne vulgaris, may be a socially disabling and psychologically devastating disease (1, 2). Among a multitude of treatment options, recent application of various devices based on 'fractional photothermolysis (FP) technology' has brought remarkable advances and broadened therapeutic options (3, 4). However, there are still no guidelines regarding the selection of fractional devices from the perspective of maximum efficacy and minimal downtime. Although ablative FP may be more efficacious in fewer treatments, patients tend to experience more downtime and a higher risk of various side effects including pain, pigmentation, scarring, and prolonged healing, especially in patients with darker skin (5, 6).

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Advances in dermatology and venereology Acta

In that sense, non-ablative fractional lasers (NAF) or radiofrequency (RF) devices have been actively applied to minimize treatment-related adverse effects (7). NAF such as a 1,550-nm erbium-glass fractional laser has been proven to deliver effective improvements to scarred skin with low complication rates (8, 9). It results in shorter downtime than ablative lasers, and re-epithelialization is complete within one day (8). Fractional micro-needling radiofrequency (FMR) delivers bipolar RF directly to the dermis using an array of microneedles (10). FMR has been recently reported to improve skin laxity, wrinkles, and acne scarring (11, 12). Given its association with epidermal preservation and a rapid recovery time, it has become popular recently.

Despite the advantages of non-ablative fractional devices, previous studies have rarely evaluated whether combination treatments involving these devices have advantageous effects from the perspective of efficacy and potential side effects for the treatment of acne scarring. In this study, we aimed to evaluate whether the sequential application of NAF and FMR has a synergistic effect on the efficacy and safety of atrophic acne scar treatments, as compared with conventional NAF alone during 3 consecutive sessions through a prospective, randomized split-face comparison study.

## METHODS

### Study design and subjects

This study was conducted based on a 16-week, prospective, randomized split-face protocol that compared clinical and histological aspects between two facial sides: either receiving sequential application of NAF and FMR or NAF alone for atrophic acne scar. It was carried out in accordance with the Declaration of Helsinki and approved by the Institutional Review Board. Informed consent was acquired from all subjects prior to enrollment. Treatments of each side were scheduled to receive 3 consecutive sessions at 4-week intervals, with a follow-up visit 8 weeks after the final third treatment. Twenty-eight Korean subjects (15 men and 13 women, aged 21-38 years, 15 Fitzpatrick skin type III and 13 type IV) with atrophic and/or hypertrophic acne scars were enrolled. Participants whose échelle d'évaluation clinique des cicatrices d'acné (ECCA) score was higher than 50 were eligible for inclusion (13). A simple random allocation sequence was created using computer-based random number generators to assign the treatment modality of each side. Randomization codes were secured in a safe until all data analyses were finished. Two dermatologists evaluating the scar improvement were blinded

# 3 Non-ablative Technologies For Your Practice

Micro-needling RF fractional technology



1540 nm non-ablative fractional technology



Single coagulation technology



Multi-Applicators will make sure you can treat a wide range of indications with better precision and better outcome.

# 5 different scan patterns for more treatment options



Scan Size: 1x1 ~ 10x10mm  
Dot Distance: 0.1 ~ 2.0mm



Circle

Half Circle L

Half Circle R

Square

Triangle

ERGONOMIC Handpiece with Fully Customized Scan Patterns and Ultra Fast Scanning.

## Other Er;glass Handpieces



### STAMPING

Fixed Tips – Have to keep changing and Hard to Treat Certain Areas

- Flexible and easy to use
- Easy to reach all treatment areas
- Fast treatment time
- Do more patients

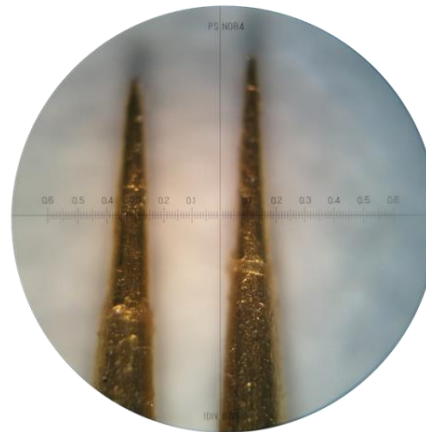
# Finest Medical Grade Highest Quality Microneedles



**Your treatment is safe and effective with predictable results**

- Better penetration
- Uniform energy delivery
- Low risk of side effects.

*OTHER COMPETITOR'S*



VS

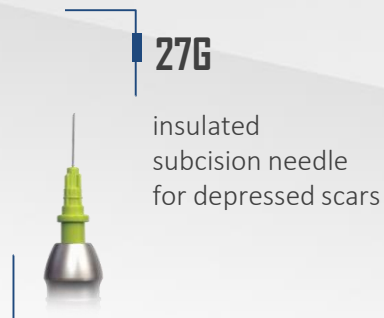
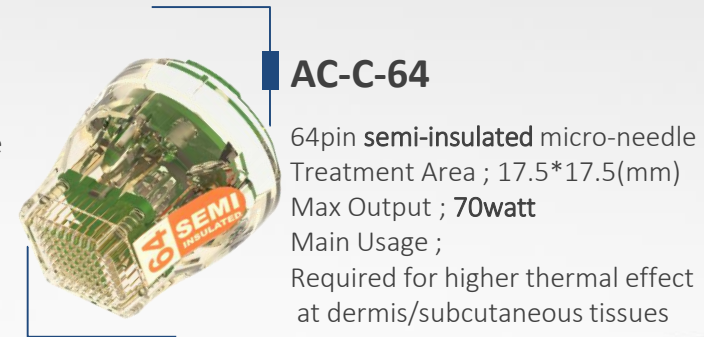
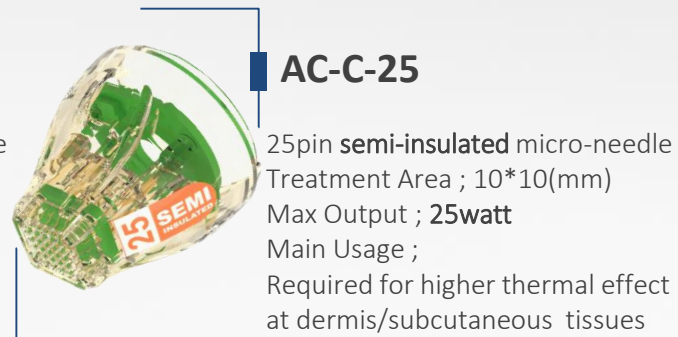
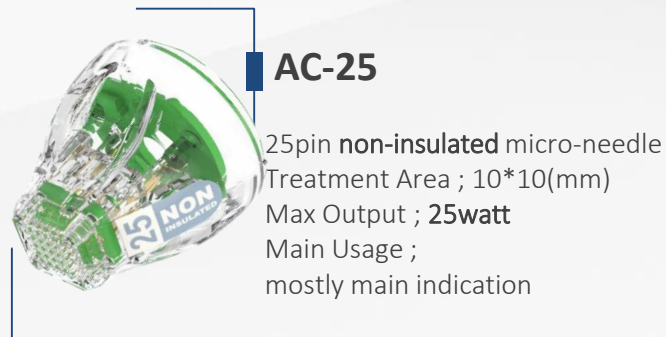
**Secret DUO**



Downtime and side effects caused by unstable RF emission and poor needle quality



# Various single and multi-needle cartridges for wide range of indication



# Advanced GUI and Easy to Use

## Secret DUO



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User friendly designed GUI offers effective preset parameters for various condition to make it easy and simple to use for any practitioners



# SPECIFICATION



Electrical Power		100 - 240 VAC, 50/60 Hz
1540 Laser	Wavelength	1540nm $\pm$ 10%
	Laser Power	Max 12W $\pm$ 20%
	Pulse Duration	700 $\mu$ s ~ 5000 $\mu$ s
	Energy	8.4mJ ~ 60.0mJ
	Distance	0.1mm ~ 2.0mm
	i-Stack	1st ~ 10th
	MODE	Single, 0.2, 0.5, 0.7, 1.0, 1.5, 2.0s
	Treatment size	Max 10mm X 10mm
RF	Output Power	Max 25W $\pm$ 10% (with 25pin) Max 70W $\pm$ 10% (with 64pin)
	Frequency	2MHz $\pm$ 10%
	RF Output Time	50ms ~ 950ms
	Delay time	100ms ~ 1000ms
	Depth	0.5mm ~ 3.5mm (0.1 step)
	Mode(Repeat Time)	Single, 0.2s, 0.5s, 0.8s, 1s, 2s (Repeat time)
	Intensity(%)	0 ~ 100(%) (10 step)
	Electrode	Micro Needle electrode

**T**hank you