



**nettle**  
FRACTIONAL RF

# EVERLASTING LUSTER, UNFADING EFFECTS



With Fractional and Multipolar Modes



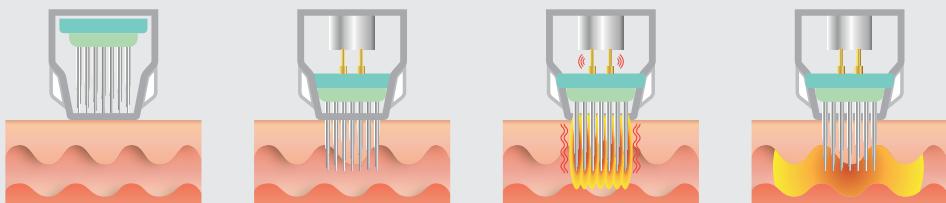
## RF Technology

Radiofrequency (RF) technology applies high-frequency radio waves with the least invasiveness to certain layers of the skin and generate heat in those areas. The generated heat stimulates fibroblasts, collagen, and elastin secretion. This process leads to significant rejuvenation of the skin. In fractional mode, RF is applied to the skin by fractional needles, which penetrate deep into the skin, while the surface of the skin is not exposed to heat, and as a result, complications from the treatment are greatly reduced.

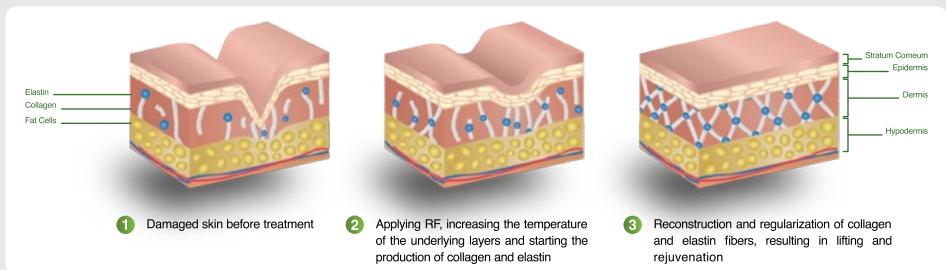
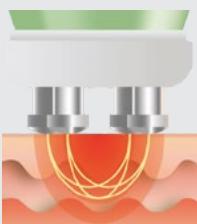
## Mechanism of Action

Nettle's mechanism of action is applied on skin layers in two ways, fractional and multipolar.

- In the fractional method, a set of exceptionally fine needles are penetrated to a certain depth in different areas of the skin by the fully automatic mechanism of the Nettle device.
- A stream of radiofrequency waves flows through the needles with specific intensity and time. The effect of this exchange of waves is to create heat and positive changes in the dermis area of the skin.



- In the multipolar approach, the RF current is established between four electrodes (two sets of two) with positive and negative poles and affects a wide and deep area of the skin.
- In both methods, RF waves stimulate the growth factors by creating heat in the skin to start the healing process.
- With the secretion of growth factors, fibroblasts are activated and help to improve skin tissue by producing collagen, elastin, and hyaluronic acid.



## Handpiece Design

The achievement of Nettle's unique design is two light and ergonomic handpieces that do not vibrate and long treatment sessions by these handpieces are easy for the doctor.



## Needle Design

Nettle's -25 and -49pin gold-plated, non-insulated needles are designed to produce the best results with the shortest recovery period. Nettle's controlled movement mechanism for needles reduces pain and makes radiofrequency waves more effective.



## Multipolar Electrode Design

Multipolar handpiece includes four electrodes with positive and negative poles at certain distances from each other. The electrodes are completely biocompatible with the skin and provide a comfortable and painless experience for the patient.



## Technical Specs

Dedicated fractional and multipolar handpieces

Non-invasive and minimally invasive modes

4 & 8 MHz frequency to achieve optimum penetration depth & effectiveness

Fully digital RF pulse power & time control

Adjustable needle penetration depth with an accuracy of 0.1 mm

Specific treatment modes with various applications for the face & body

No RF radiation during the needle movement in and out of the skin

Adjustable RF pulse delay feature

Automatic re-shot feature

Device Name      NETTLE FRACTIONAL RF

Output Frequency      8 MHz & 4 MHz

Maximum Input Power      90 VA

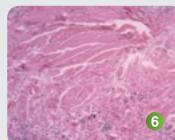
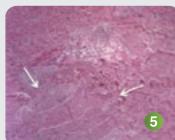
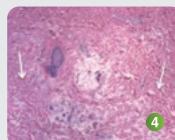
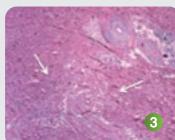
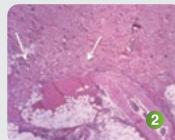
Maximum Output Power      35 W

Insulation Class      CLASS I

Working Modes      FRACTIONAL  
                          MULTIPOLE

## Histology of the tissue

- ① Before the treatment
- ② Moments after the treatment
- ③ 2 days after treatment
- ④ 14 days after treatment
- ⑤&⑥ 28 days after treatment



As seen in the figure, the areas with white arrows indicate the accumulation of elastin and collagen fibers in the treated area. This accumulation of fibers shows the rejuvenation of the tissue structure, which leads to lifting and improving the mechanical properties of the tissue.

## Treatment Options

- Wrinkles (forehead, frown, laugh and upper lip lines)
- Crow's Feet Lines
- Non-Surgical Facelift
- Skin Pores & Active Acne
- Atrophic & Hypertrophic Scars
- Jaw Angulation
- Stretch Marks
- Double Chin
- Neck Wrinkles
- Hyperhidrosis
- Hand Rejuvenation
- Sagging Belly & Arm Skin
- Cellulite



## Clinical Features

- Short recovery period
- No side effects
- Suitable for all skin types
- High safety
- Suitable for all parts of the face & body
- High operational speed



# EVERLASTING LUSTER UNFADING EFFECTS

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