

PINXEL

Microneedle RF & Fractional RF



Introduction of Pinxel

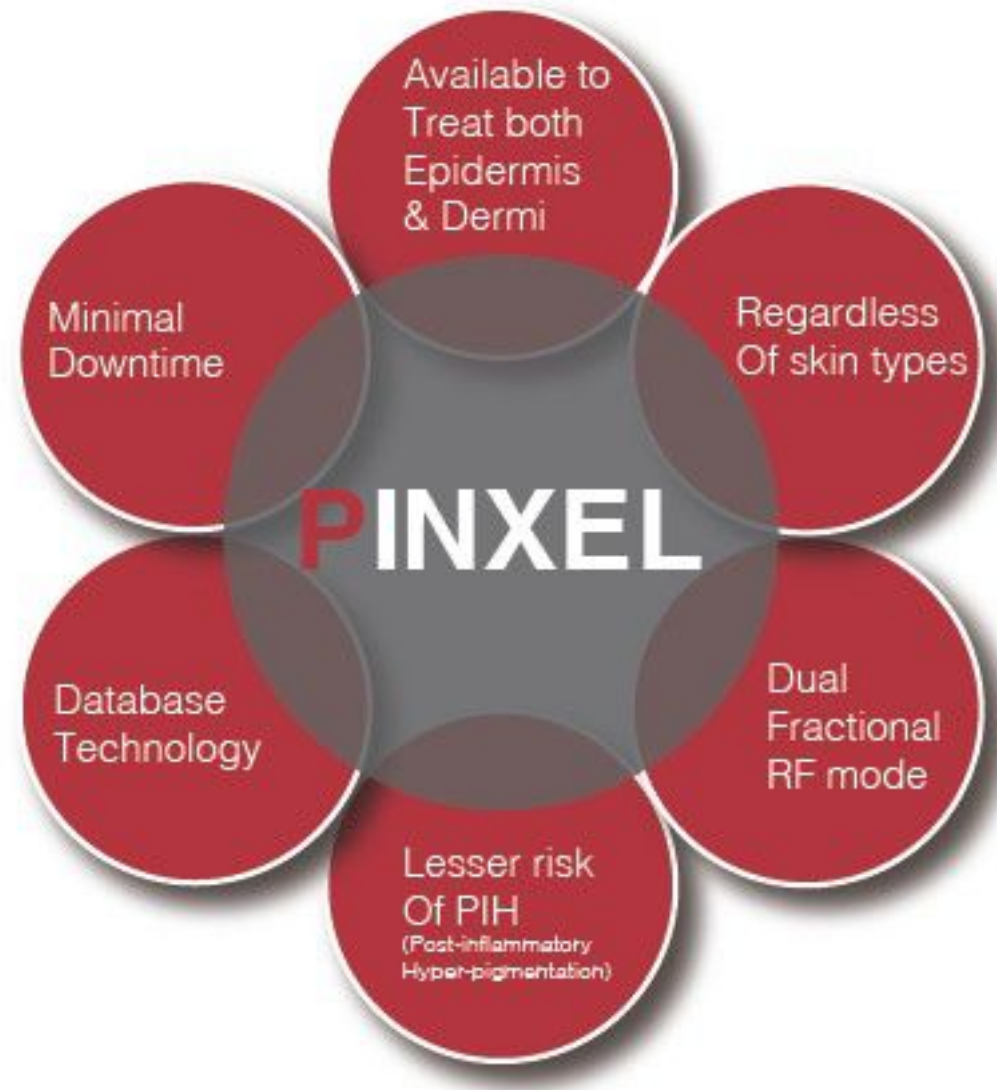
- Pinxel Fractional RF Microneedle is designed specially for delivery RF energy directly to epidermis or dermis layer in order to stimulate and re-model collagen effectively by either RF microneedling mode(invasive) or RF matrix mode(non-invasive).

It can be used for both epidermal application and dermal applications in one platform without change any operational environment.



**Fractional RF Micro-
needle Treatment area:**
Middle & down Dermis

**Fractional RF Sub-lative
Rejuvenation Treatment
area:**
Epidermis & Superficial
Dermis



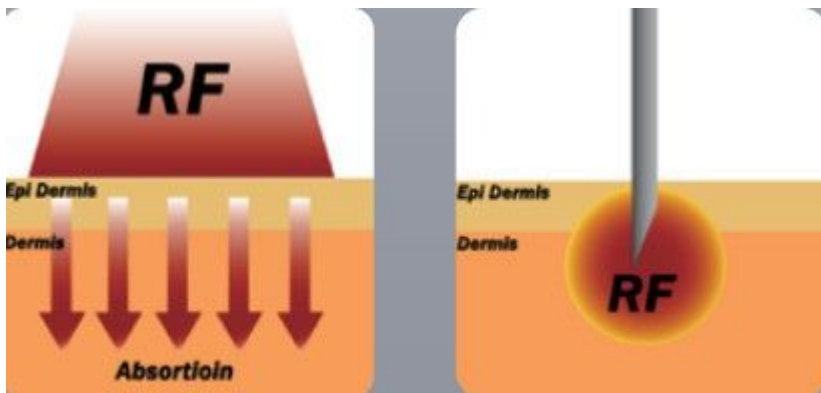
Specification of Pinxel

System Type	Mono & Bipolar RF
	Bipolar RF
Frequency	2MHz
Total RF treatment Level	Upto Level 10
Dual Operation Mode	Fractional RF Micro-needle
	Fractional RF Sub-Lative
Max.Engery	50W
Disposable Tip	Micro-electrode needle
	Micro-electrode tip
Depth of Needle	0.5 - 3 mm (Adjustable)
Display	10.4 inch LCD
Switch	Foot Switch
Dimension(mm)	280mm(W) x 505mm(L) x 1100mm(H)
Weight	20Kg
Electrical Requirements	AC/100-240 V, 50-60 Hz

RF versus Laser

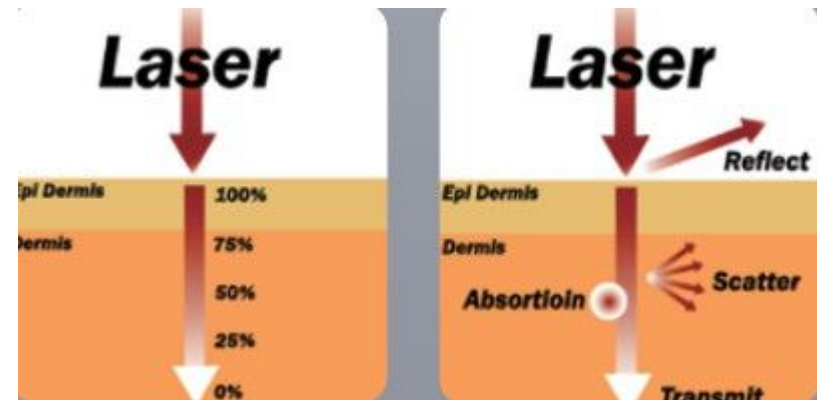
Radio frequency

- No matter what skin type is
- Easy penetration up to target area
- Less risk of side effect
- Easy to control depth
- Delivering energy directly into target area without loss of energy

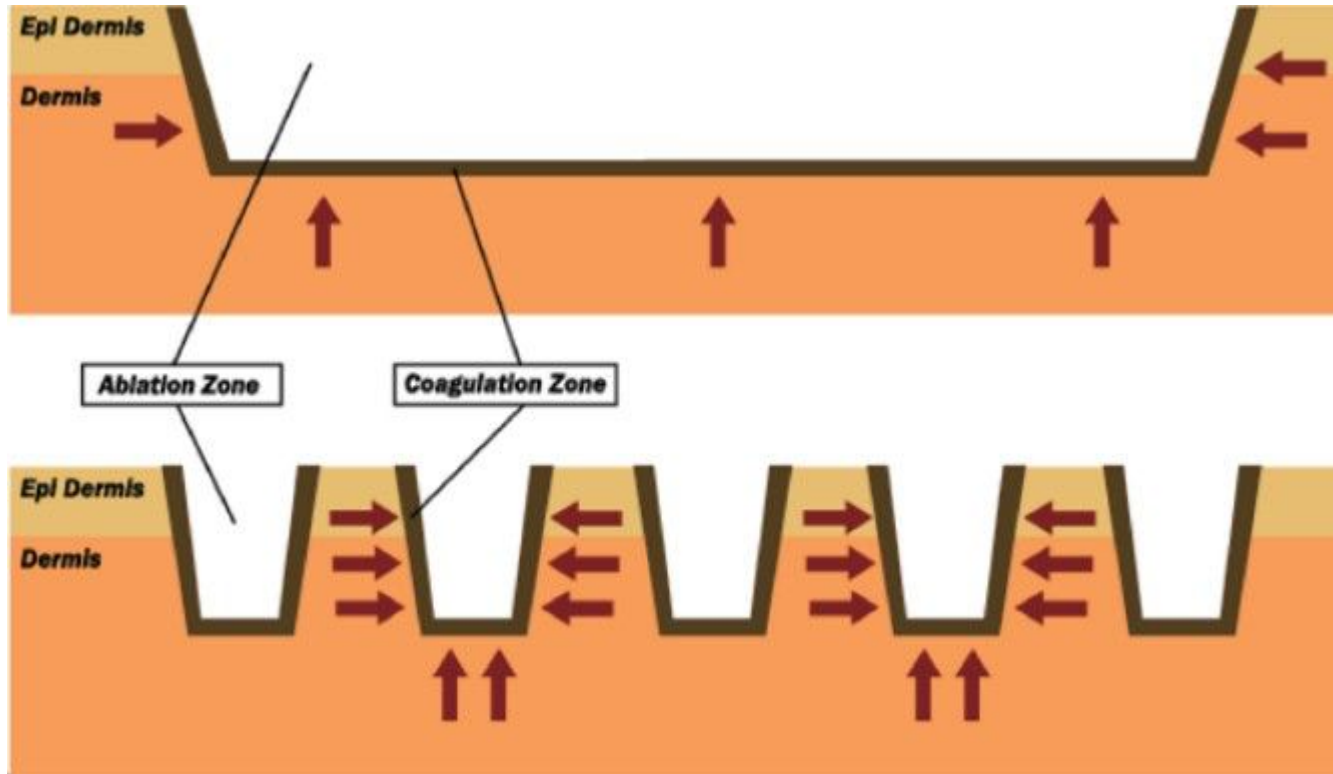


Laser

- Selective laser absorption
- Penetrations vary depend on absorption rate for water, hemoglobin, melanin etc
- Hard to control depth
- Delivering energy to target area varies depend on a various parameters such as absorption rate



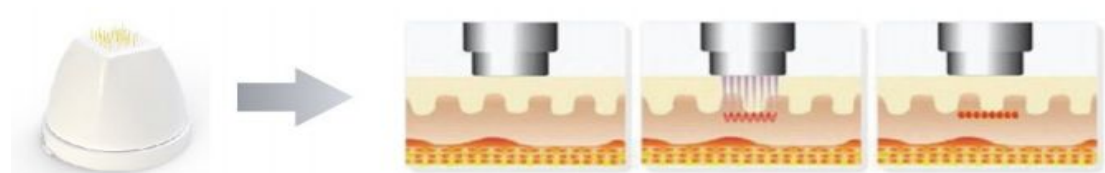
Advantage of Fractional RF



Idea of Fractional Technology results in quick wound healing reaction from surrounding tissues, which is not damaged.

Fractional RF Micro needle

- Micro needle RF is for invasive treatment
- An effective and direct thermal stimulation for remodeling collagen with less damage on epidermis
- Micro needle delivers RF directly to target area and reforms collagen and elastin effectively without energy loss like laser treatments

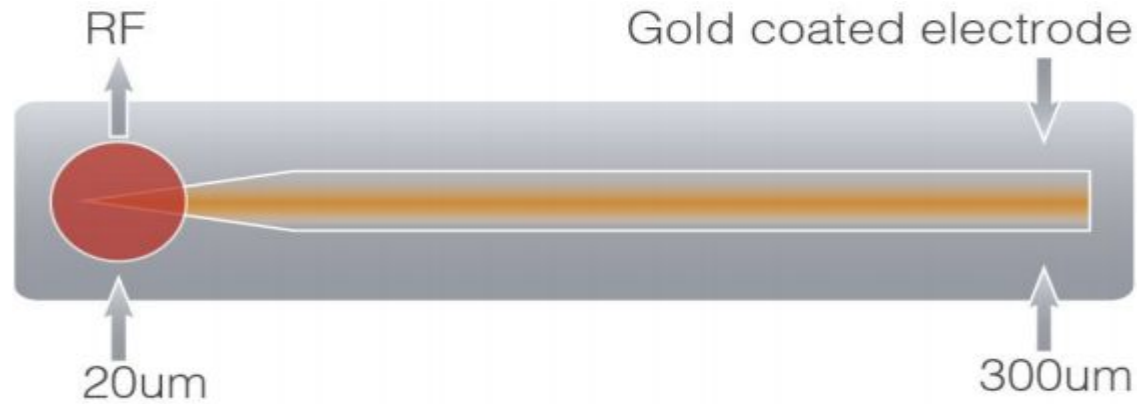


Micro
Needle
(Direct energy
delivery)

Radio
Frequency
(Thermal
Damage)

Satisfactory
Results

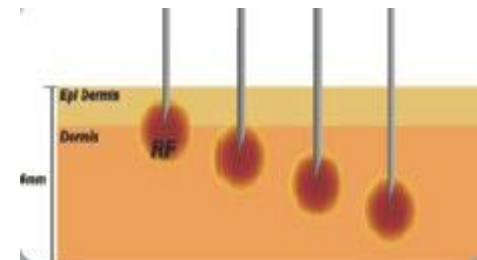
Fractional RF Micro needle



- Microneedle RF penetrates target area from epidermis to dermis without energy loss and stimulate disordered collagen in order it efficiently.
- Stepping motor driven mechanism enables to control penetration depth precisely and accurately.

Needle Depth: 0.5mm-3mm

It is available to adjust penetration depth from 0.5mm to 3mm by 0.5mm increment. So it is easy to be on target.



Fractional RF Microneedle

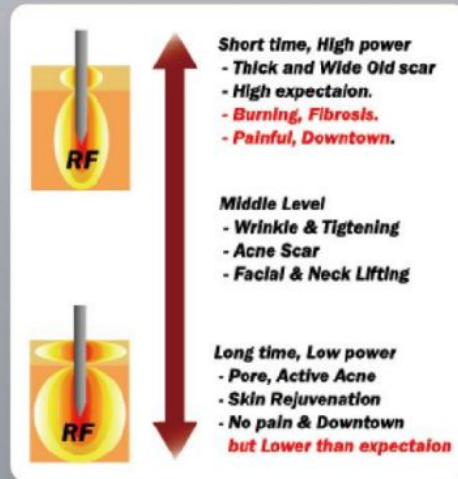


Duration time & energy

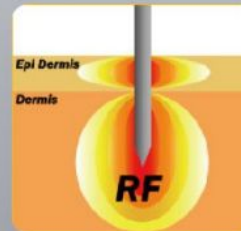
Pinxel is able to create various energy fields for each applications

Emission : 0.1 sec to 0.9 sec

Intensity level : 1 to 10

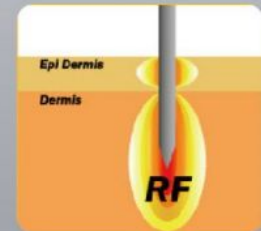


Power 1.6
(0.8 sec X Intensity 2)

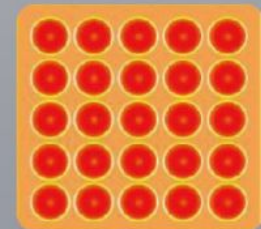
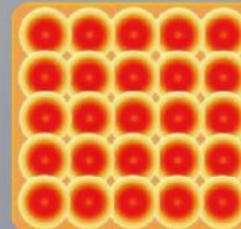


Long time and
Low Intensity

Power 1.6
(0.2 sec X Intensity 8)



Short time and
High Intensity

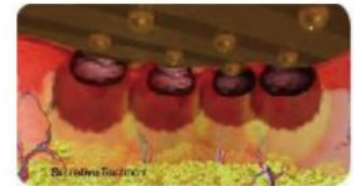
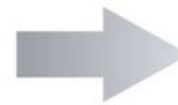
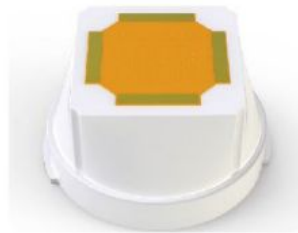


Fractional RF

- Fractional RF is...

The fractional RF delivers thermal energy to the treatment area more safely, more effectively. It allows treatment regardless of skin type. Lasers is mostly absorbed by melanin, especially in darker skin.

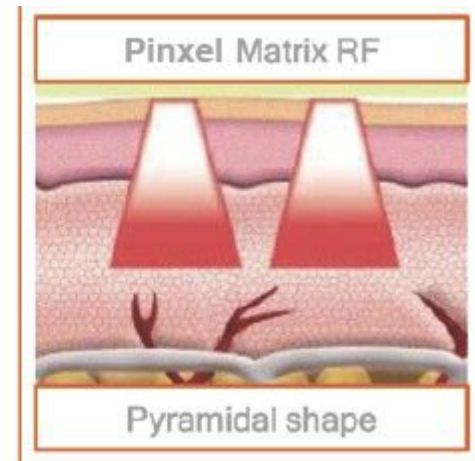
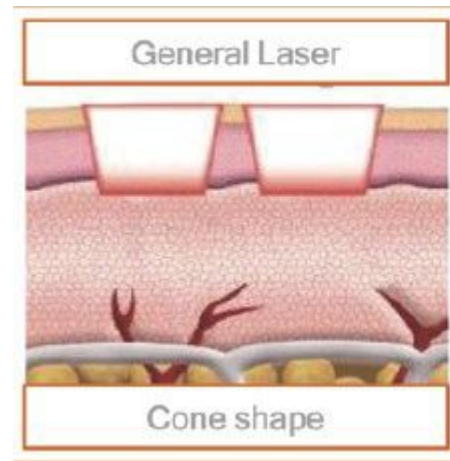
- Besides, resurfacing laser can be aggressive at the epidermal level. So it is quiet risky to treat with laser on the ark skin. But, RF is able to avoid the traget melanin in the skin since it is no longer dependent on a light & laser energy to heat the skin. This is fractional skin rejuvenation method for safe treatment.



Fractional RF provides significant lifting effects with non-invasive way

Fractional RF

- Penetration of laser energy is getting weaker because of laser absorptions by water, hemoglobin, melanin..etc.However, RF energy penetrates into target area without those absorptions.
- Energy pores on surface of skin care closely connected with period of down time. Smaller pores shorter down time.



Pinxel

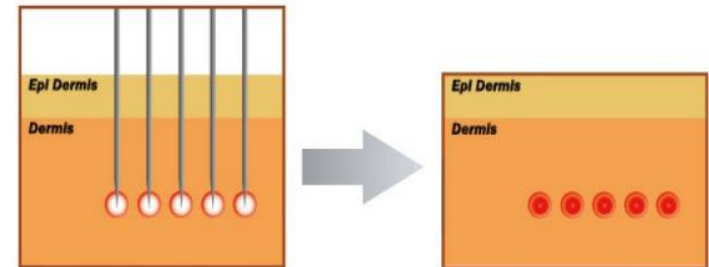
RF Needle Tips

- No burn and no risk of side effects
- Better result by sufficient energy delivering
- Easy to control penetration depth
- Acne scar, large pore, wrinkle , skin tone, skin elasticity /Volume

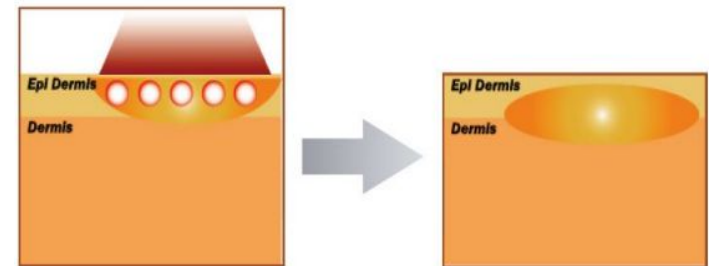
Fractional RF Tips

- Less pain, Less down time
- No risk on sensitive skin
- Immediate result and deep-heat-effect
- Skin texture, Large pore, Fine wrinkle, Lifting, Skin tightening

RF Needle Tip



Fractional RF Tip



Specification of Pinxel Tips

Micro needle RFeNERGY		Matrix RF	
Energy source	RF(Radiofrequency)	Energy souce	RF(Radiofrequency)
RF output	Max 50w	RF output	Max 50w
RF Electrode	Bipolar /Monopolar	RF Electrode	Bipolar
Spot size	12*12mm(25pins)	Spot size	12*12mm(64 pins)
Repetition rate	1.0,2.0,3.0sec & manual		
Penetration depth	0.5-3mm	Penetration depth	-
Duration time (Emission)	0.1-0.9sec	Duration time (Emission)	0.1-0.9sec