

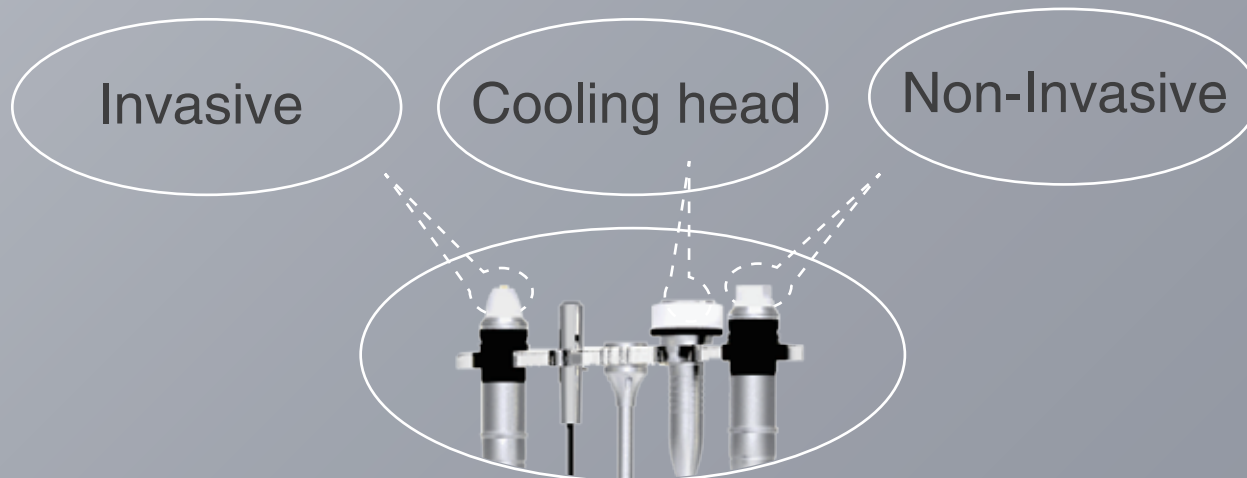
# PINXEL

Micro Needle Rf & Fractional Rf



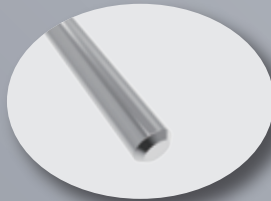
# Introduction of Pinxel

Pinxel is designed specially for delivering RF energy directly to epidermis or dermis layer in order to stimulate and re-model collagen effectively by either **RF micro needling mode (invasive)** or **RF matrix mode (non-invasive)**. It can be used for both epidermal applications and dermal applications in one platform without changing any operational environment.





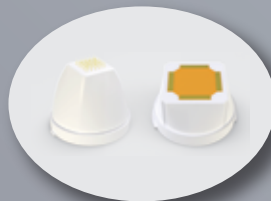
Single System  
Fractional RF and Bi-polar RF



Negative Polar



Cooling head



Two Tips



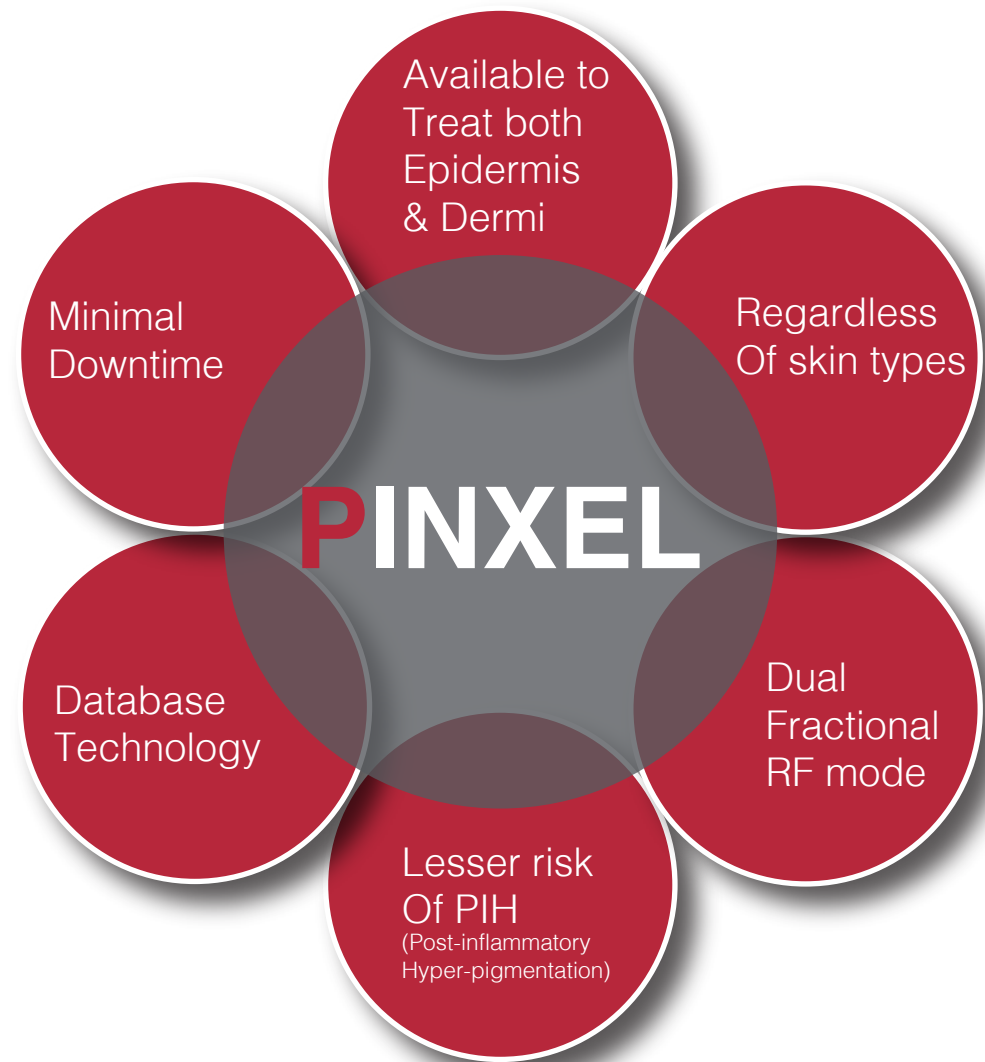
The Screen  
Easily Touch



Foot Switch

Fractional RF  
Micro-Needle  
Treatment area :  
Middle & Down  
Dermis

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



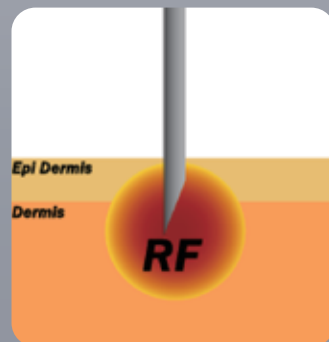
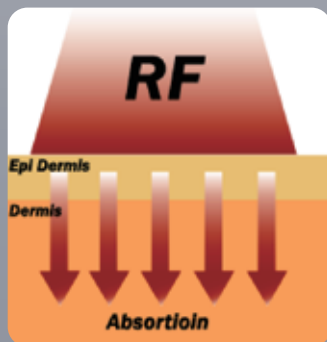
# Specification of Pinxel

Specifications	
System Type	Mono & Bipolar RF
	Bipolar RF
Frequency	2MHz
Total RF Treatment Level	Up to Level 10
Dual Operation Mode	Fractional RF Micro-needle
	Fractional RF Sub-lative
Max. Energy	50W
Disposable Tip	Micro-electrode needle
	Micro- electrode tip
Depth of Needle	0.5 - 3 mm (Adjustable)
Cooling head	-10°C
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

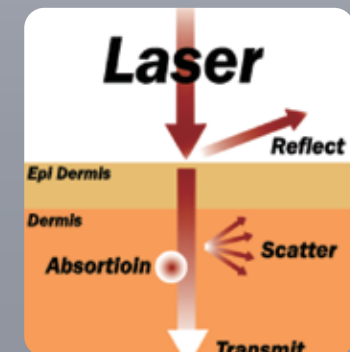
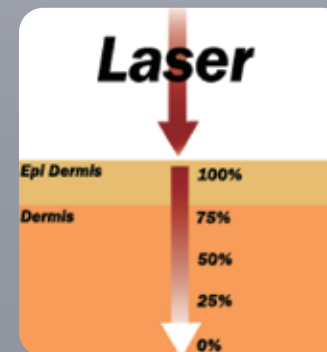
## Radio Frequency

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

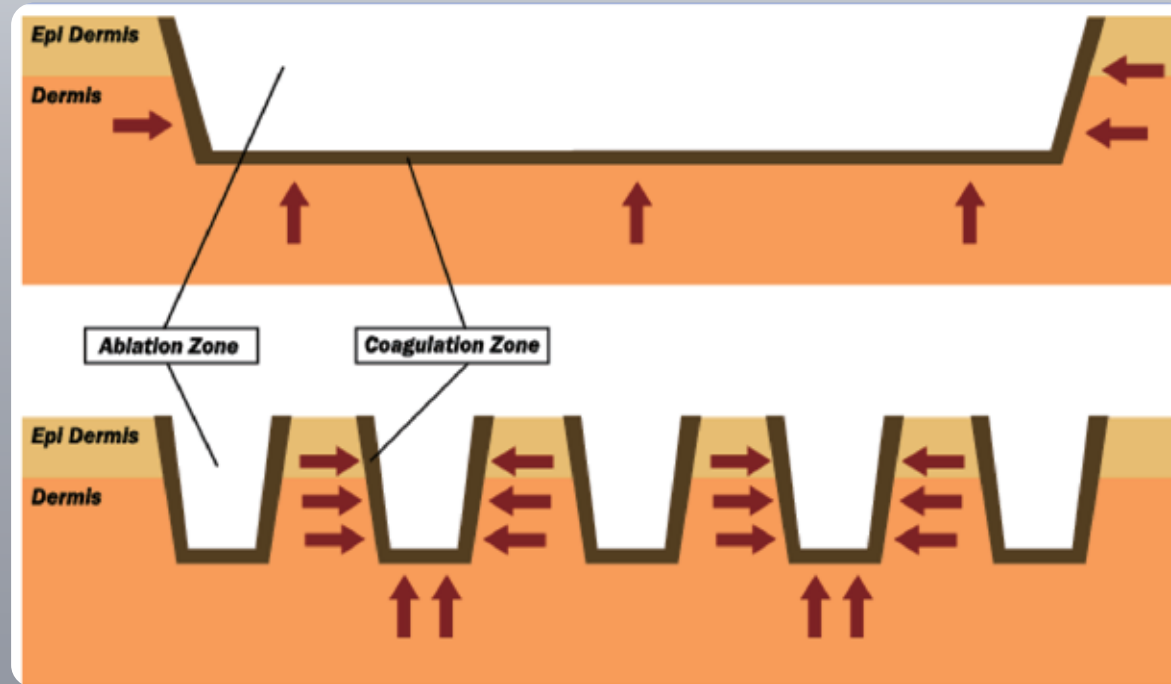


## Laser

- 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 RF fractional



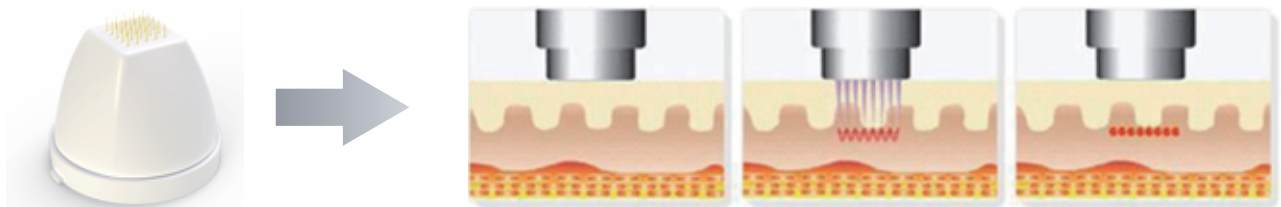
Idea of Fractional technology results in quick wound healing reaction from surrounding tissues, which is not damaged.



# PINXEL

## 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 any energy loss like laser treatments



Micro  
Needle  
(Direct energy  
delivery)

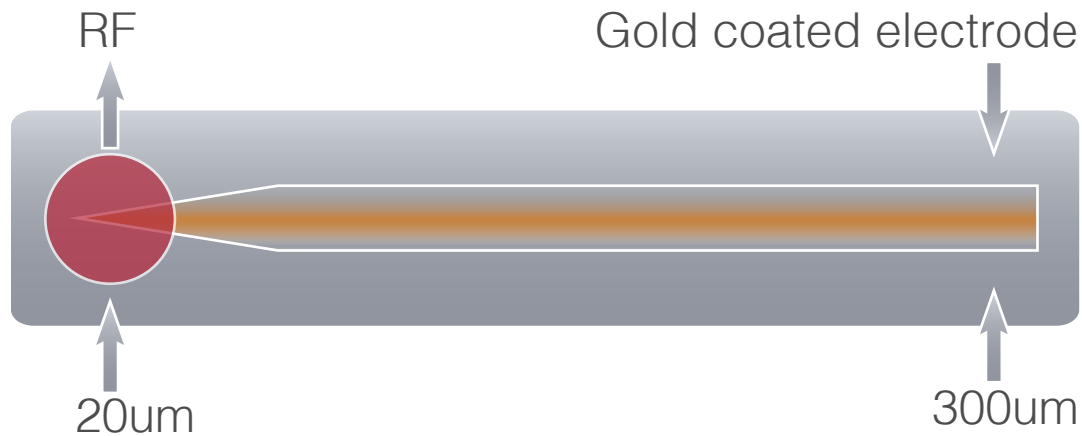
Radio  
Frequency  
(Thermal  
Damage )

Satisfactory  
Results



# PINXEL

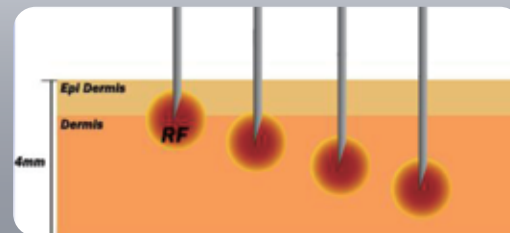
## Fractional RF Micro needle



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

### Needle Depth

It is available to adjust penetration depth from 0.5mm to 3.0mm by 0.1 mm increment. So it is easy to be on target .  
Needle Depth : 0.5 mm to 3.0mm



# PINXEL

## Fractional RF Micro needle

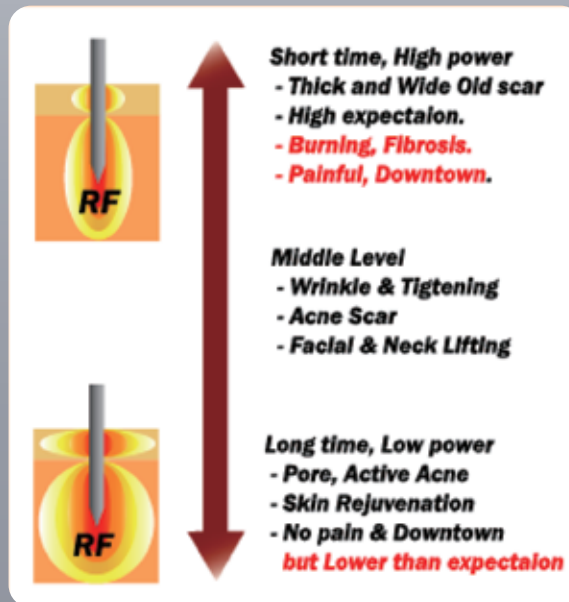


### Duration time & energy

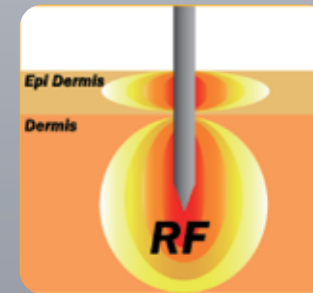
Pinxel is able to create various energy fields for each applications

Emission : 0.1 sec to 0.9 sec

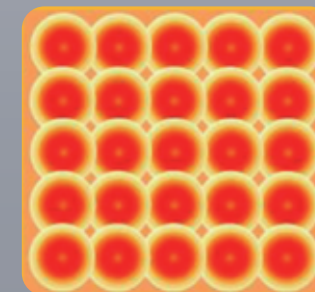
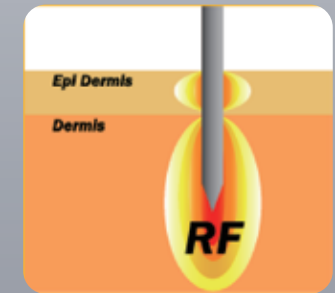
Intensity level : 1 to 10



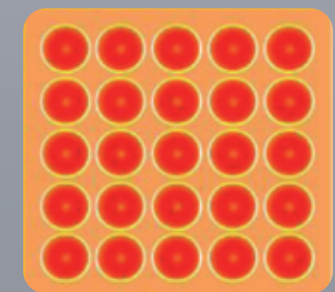
Power 1.6  
(0.8 sec X Intensity 2)



Power 1.6  
(0.2 sec X Intensity 8)



Long time and  
Low Intensity

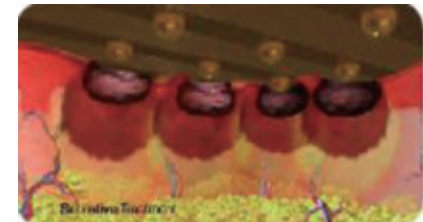
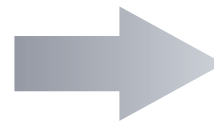
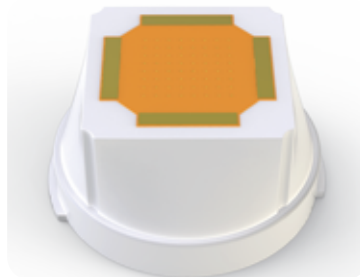


Short time and  
High Intensity

# PINXEL

## 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. Laser is mostly absorbed by melanin, especially in darker skin.
- Besides, resurfacing laser can be aggressive at the epidermal level. So, it is quite risky to treat with laser on the dark skin. But, RF is able to avoid targeting the 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.

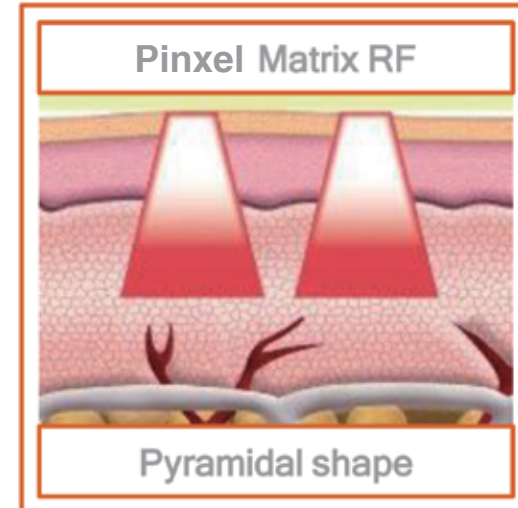
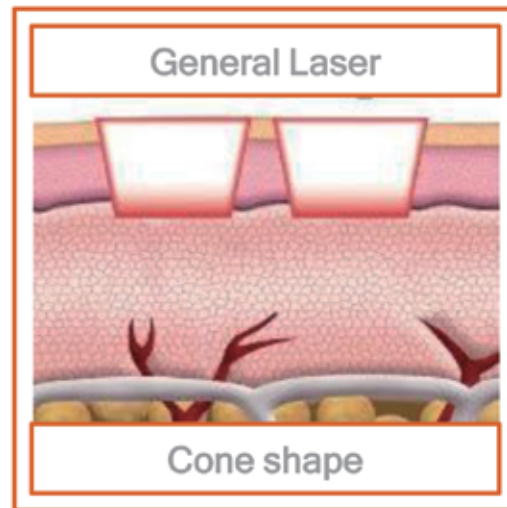


Fractional RF provides significant lifting effects with non-invasive way

# PINXEL

## 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 are closely connected with period of down time. Smaller pores shorter down time.



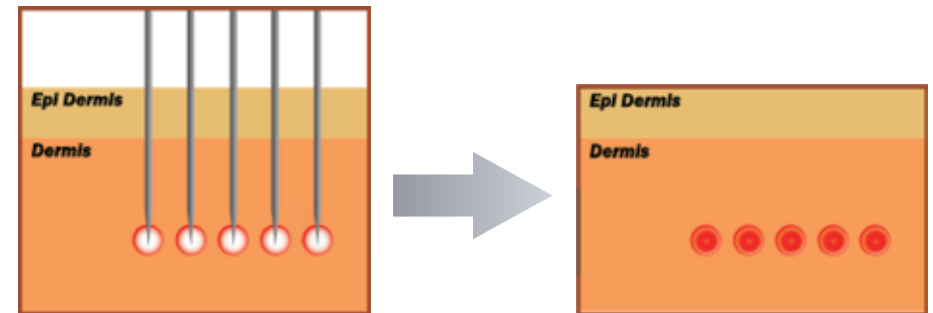
## RF Needle Tip

- 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. .

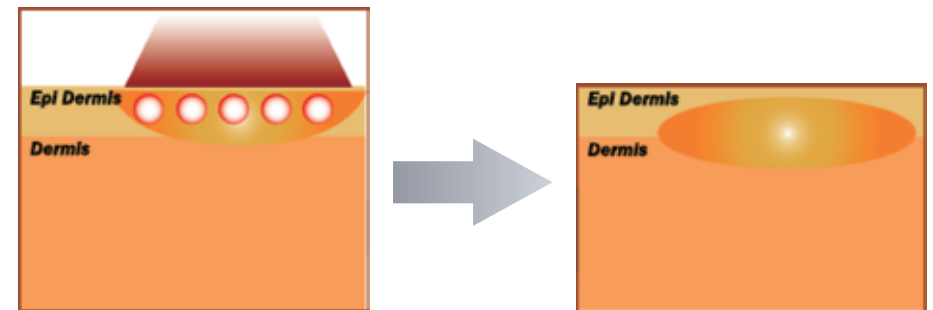
## Fractional RF Tip

- 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 RF		Matrix RF	
Energy source	RF(Radio Frequency)	Laser Type	RF(Radio Frequency)
RF Output	Max. 50 W	RF Output	Max. 20 W
RF Electrode	Bipolar / Monopolar	RF Electrode	Bipolar
Spot size	12 x 12mm(25pin)	Spot size	12 x 12mm(64pin)
Repetition Rate	1.0, 2.0, 3.0sec. & manual		
Penetration depth	0.5 —3.0mm	Penetration depth	—
Duration Time (Emission)	0.1— 0.9sec	Duration Time (Emission)	0.1— 0.9sec

Thank you

**PINXEL**

Micro Needle Rf & Fractional Rf

