

For Export





Experience, the real photoacoustic effect

Next generation pico laser **Real 300ps pulse duration**Stable technology providing pulse duration of 300ps.

Non-photothermal effect, **Photomechanical effect treatment**Upgraded from photothermal effect treatment, photomechanical effect treatment allows selective treatment on targeted areas.

Various handpieces for improving of skin rejuvenation

DOE & MLA handpieces can provide various types of treatment in multiple sizes and depths depending on the treatment area.

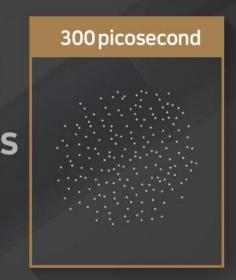


Why 300ps?

- · Stress Relaxation Time(SRT) of 1µm melanosome is 300ps.

 The shock wave caused by the picosecond pulse acts only on the melanosome without being transmitted to the surrounding tissues.
- Thermal Relaxation Time(TRT) of 10–100nm tattoo ink particle is 100ps-10ns. 300ps is equipped with appropriate pulse duration to destroy smaller particles than other picoseconds lasers.
- Micro bubble occurs in the skin more strongly by high peak power related to shorter pulse duration. High peak power with 300ps pulse duration increases LIOB formation and skin rejuvenation effect.





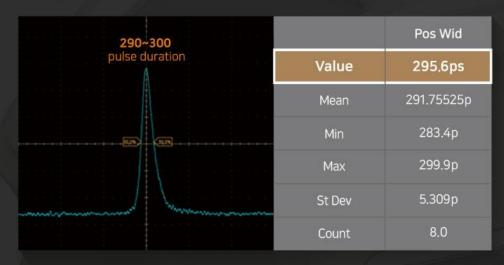


Nano Laser	Pico Laser
Photothermal effect	Photomechanical effect
Not precise destruction of melanin pigment Damages on near by tissues	Precise destruction of melanin pigment Targeting on the pigment is possible with great damage effects
The heat damages melanin pigment and affects the surrounding tissue. [Marks after Nanosecond laser]	Physical destruction on melanin pigment while having no affects on the surrounding tissue. [Marks after Picosecond laser]

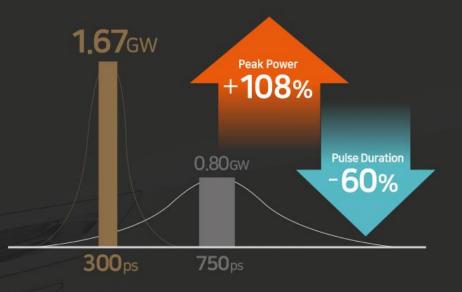


High Power

300 picosecond pulse duration



Peak power higher than Q-switch or other pico lasers provide maximum effect on tattoo removal, pigment treatment and skin rejuvenation.

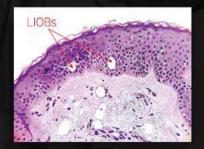




High Effect

LIOB effect with PICOHI VMLA handpiece (biopsy result)

Bubble within the skin helps to regenerate tissues which create new collagen for skin rejuvenation effect. MLA & DOE handpieces of PICOHI provides effective rejuvenation treatment.



Rejuvenation



VMLA H/P

Precise treatment at different layers from Deep dermis to Epidermis with 13mm beam size.

Depth depending on the target can be adjusted (0.5mm



ZMLA H/P

Cover the various lesion sizes and providing effective results.

Adjustable Beam Size depending on the treatment (4~12mm)



DOE H/P

Synergy rejuvenation effect with MLA handpieces.

Very even energy uniformity with 10mm(7*7 dots) spot size

Pigmentation



Collimated H/P

Stable and effective toning treatment with same spot size regardless of laser separation distance.

1064nm Collimated / 10mm spot size



Zoom H/P

Various pigmentation treatment possible.

532nm - 1064nm basic zoom / 2~10mm spot size



Tattoo Removal

Red and Yellow

Color treatment

Zoom H/P 532nm · 1.5~7.5mm spot size

Black

Color treatment

Zoom H/P 1064nm · 2~10mm spot size



Clinical Data

Lentigine Treatment | after 1 treatment



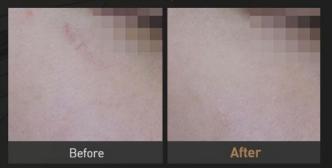
532nm Zoom: 3mm·0.3J/cm·1pass

Tattoo Removal Treatment | after1 treatment



1064nm Zoom: 3mm · 1.96J/cm · 1pass

Scratched Scar Treatment | after 1 treatment



ZMLA: 5mm·1.3J/cm·Stacking







VMLA

PICOHI"300

ZMLA

Depth depending on the target can be adjusted (0.5mm)

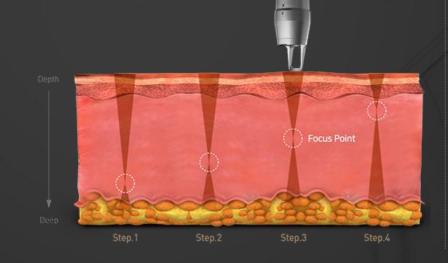
Feature

Adjustable Beam Size depending on the treatment (4~12mm)

Precise treatment at different layers from Deep dermis to Epidermis

Function

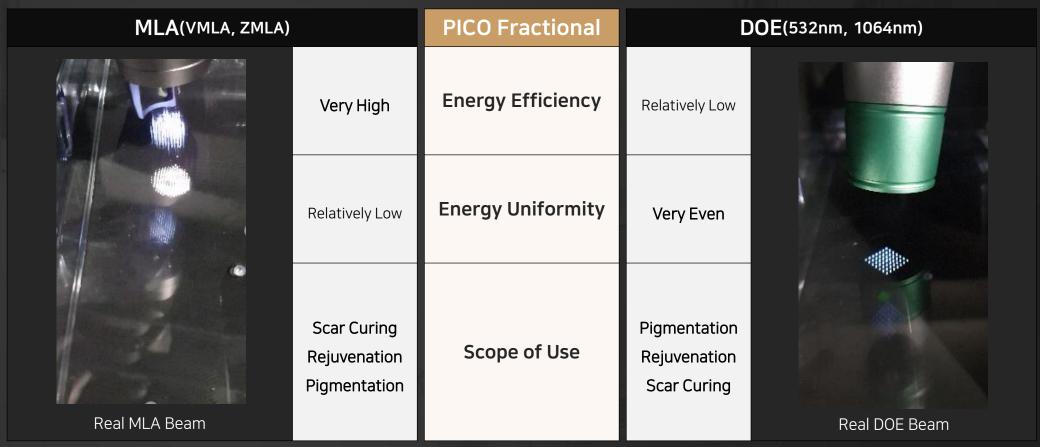
Adjustable Beam Size depending on the treatment for effective results



[ZMLA LASER TOP VIEW]

Beam Size	4	5	6	7	8
Energy (mj)					
Beam Size	9	10	11	12	
Energy (mj)					





Output Energy: 500mJ / 5Hz

PICOHI provides MLA, DOE for selective use for effective treatment

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Comparison of Minimum Energy at Zoom HP(1064nm)

Coot Cigo	Minimum Energy(mJ)		Minimum Fluence(J/ன்)		
Spot Size	450ps	PICOHI"300	450ps	PICOHI ⁻³⁰⁰	
2mm	131	3.1	4.1	0.1	
3mm	134	7.1	1.9	0.1	
4mm	138	12.6	1.1	0.1	
5mm	137	19.6	0.7	0.1	
6mm	141	28.3	0.5	0.1	
7mm	153	38.5	0.4	0.1	
8mm	X	50.2	X	0.1	
9mm	X	63.6	X	0.1	
10mm	Х	78.5	Х	0.1	

Comparison of Minimum Energy at Zoom HP(532nm)

Snot Siza	Minimum Energy(mJ)		Minimum Fluence(J/ள்)		
Spot Size	450ps	PICOHI"300	450ps	PICOHI"300	
1.5mm	X	1.8	X	0.1	
2mm	72	3.1	2.3	0.1	
3mm	70	7.1	1.0	0.1	
4mm	75	12.6	0.6	0.1	
5mm	78	19.6	0.4	0.1	
6mm	84	28.3	0.3	0.1	
6.5mm	X	33.2	X	0.1	
7mm	76	38.5	0.2	0.1	
7.5mm	X	44.2	X	0.1	

The Fluence(J/m2) which indicates "Energy per unit area" can be adjusted from 0.1J/m² to a wide energy range in a sensitive way compared to 450ps.



High Convenience



Patient History Record

Fast and smart treatment is possible as the parameters for previous treatments will be recoded and memorized. The saved parameters can be managed through history for future treatments which may be a similar case.





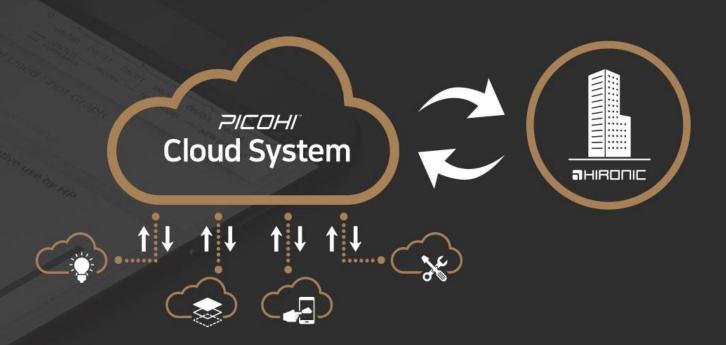






Remote Management through Cloud System

- Lamp and consumable replacement notice
- Protocols saved
- Self diagnosis and inspection
- Malfunction prevention and assist functions





Easy & Intuitive GUI

Treatment Information





Treatment Malfunction Prevention (coloring system)



Different colored GUI (Blue for 1064nm, Green for 532nm) for exact and safe treatment.

Easy to Use





PICOHI Specification

Wavelengths		Nd:YAG 1064nm, 532nm	
Pulse Duration		300ps, 275ps	
Peak Power		1.67GW, 0.91GW	
Pulse Energy[mJ] Max		500mJ, 250mJ	
Repetition		1, 2, 5, 10Hz	
Handpiece	Zoom H/P	1064nm (Spot size : 2 to 10mm)	
		532nm (Spot size : 1.5 to 7.5mm)	
	Collimated H/P	1064nm (Spot size: 10mm)	
	VMLA H/P	1064nm (Beam size: 13mm)	
	ZMLA H/P	1064nm (Beam size: 4 to 12mm)	
	DOE H/D	1064nm (Beam size: 10 x 10mm)	
	DOE H/P	532nm (Beam size: 10 x 10mm)	
'		RMS System (WIFI)	
		Wide LCD 12.1"	
Conveni	ence system	Upper shelf display zone	
		Handpiece storage	
		Hidden front handle & Back handle	
General	Electrical Power	200~240 VAC, 4.4 KVA, 50/60Hz	
	Dimensions	455(W) x 1040(L) x 975(H) mm	
	Weight	150kg	