

PICOWON

Picosecond 755 nm
Alexandrite Laser

Picosecond Laser for
Removal of Pigment
and All Tattoo Colors





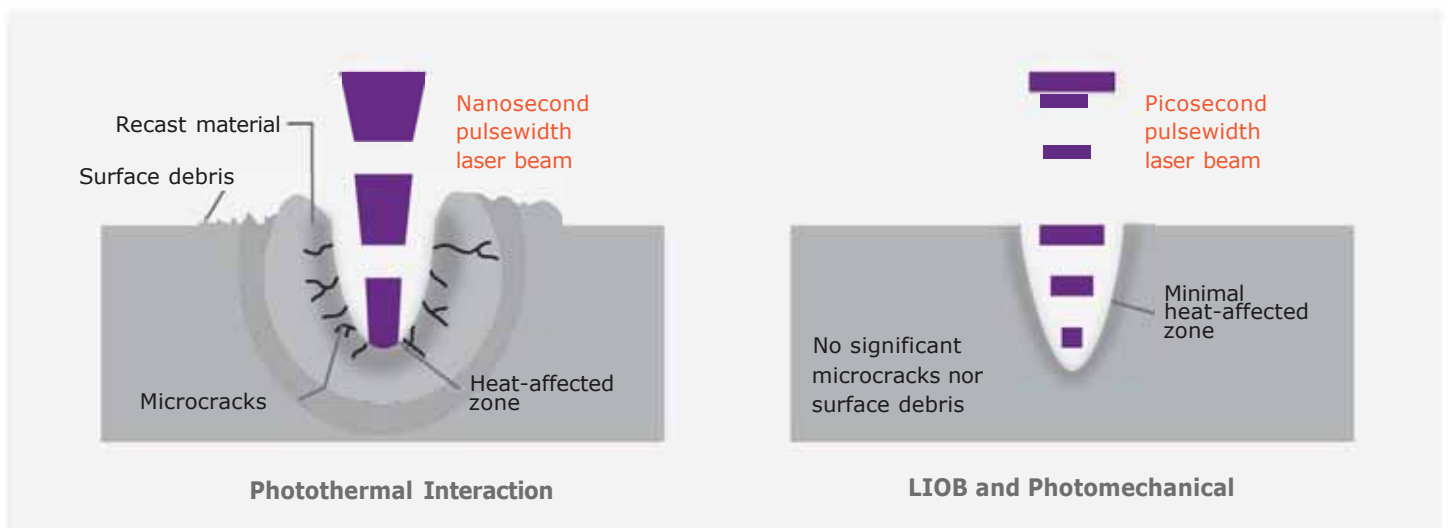
Remove unwanted pigment and enjoy smoother skin!

PICOWON, which has a higher peak power of ultra-short pulses, delivers more photomechanical effect and less photothermal effects to unwanted pigment, ensuring faster, more effective, and safer treatment.

Picosecond Laser Mechanisms

Picosecond lasers deliver more photoacoustic effects to pigment particles, resulting in fast and better results in tattoo removal and pigmentation treatment by fragmenting pigment particles into smaller sizes that can be more easily removed by lymphatic system.

Laser Type	Q/Switched Laser	Picosecond Laser
Consideration	TRT (Thermal Relaxation Time)	SRT (Stress Relaxation Time)
Laser Tissue interactions	Rapid heating \rightarrow expanding the particles \rightarrow Thermal stress \rightarrow fracture of particle	Photoacoustic stress \rightarrow Shock waves \rightarrow Fracture of particle



Picosecond 755 nm Alexandrite Laser

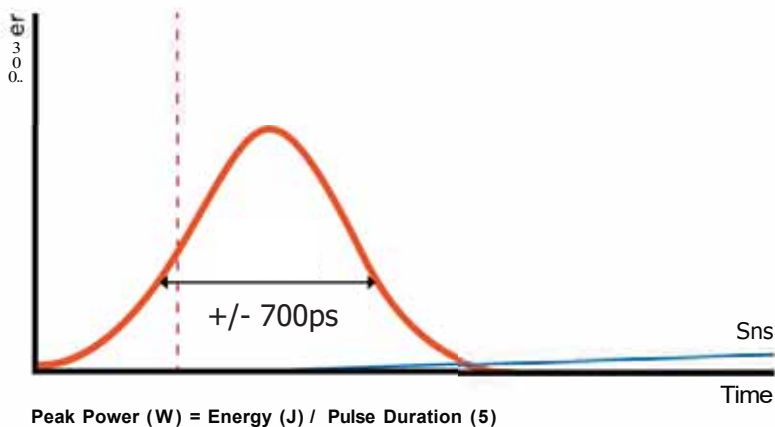
Features of Picosecond laser

Picosecond lasers treat lesions with 1/3 to 1/2 of the cumulative energy used in nanosecond lasers. Picosecond lasers break down tattoo/pigment particles into smaller sizes that easily remove them through the lymphatic system.

Laser Type	Q/Switched Laser	Picosecond Laser
Shockwaves		
Fragments		

Pulse duration and Peak Power

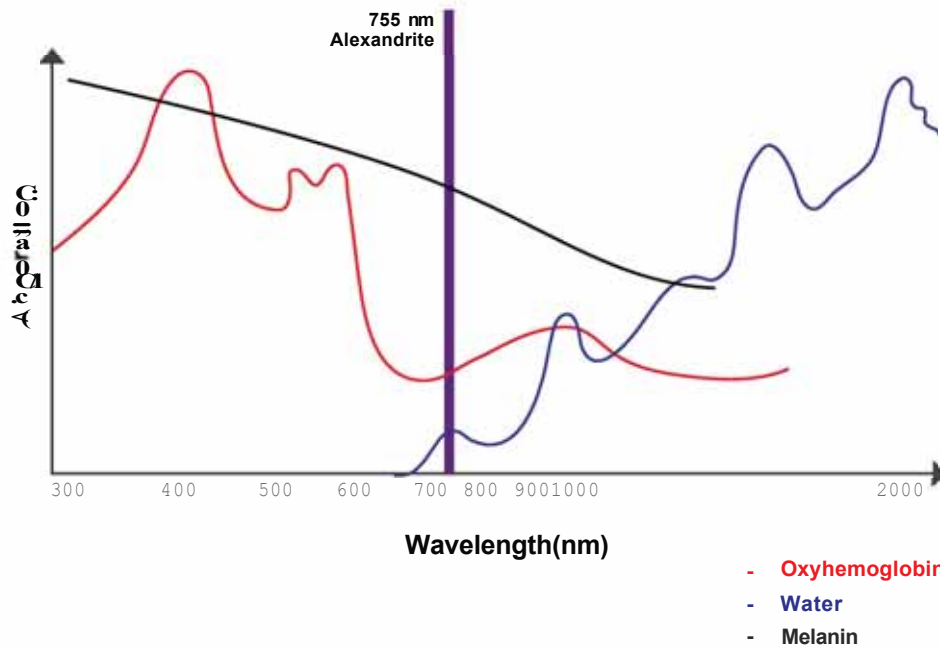
Picosecond laser is superior to nanosecond laser for excellent tattoo removal, pigmentation treatment.



Why 755 nm ?



Wavelengths



755 nm Alexandrite Laser penetrates to the upper dermis and has a high absorbance in melanin and a relatively low absorption in blood vessels. It is particularly effective in the treatment of pigment lesions of epidermis and dermis.

Benefits



Reduces risk of pinpoint bleeding



Minimizes side effects

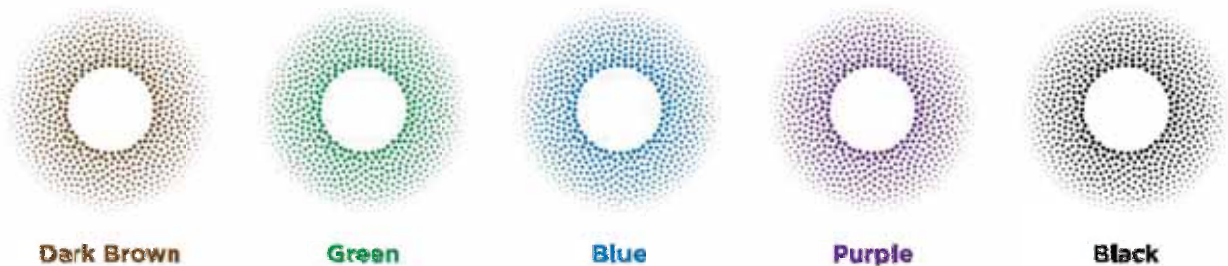


Uniquely revitalizes skin with virtually no downtime

Safety & Efficacy

Tattoo Removal

PICOWON's technology uses short bursts of energy to remove stubborn tattoo ink - including notoriously difficult blues and greens - that other lasers can't touch.



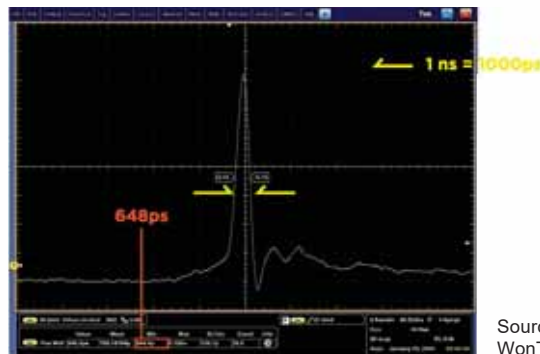
Picosecond lasers can more effectively eliminate difficult colors than nanosecond lasers.

Features

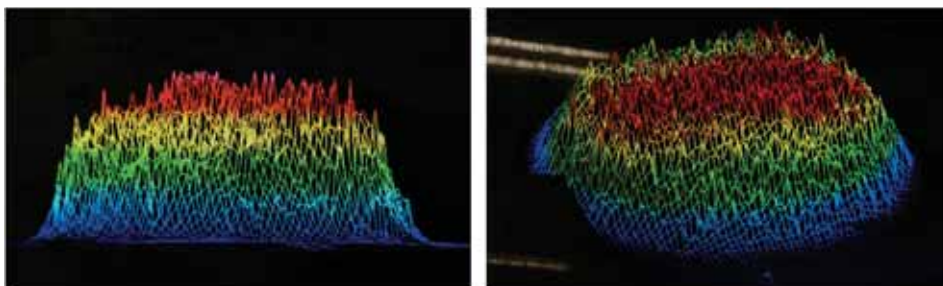
Adjustable Fluence
Wide Range of Fluence

Accurate Pulse Duration
Less than 700 ps

High Quality of Beam Profile
Uniform energy distribution of the beam profile allows safe and effective treatment results to be predicted



Source
WonTech R&D center measured



Source
WonTech R&D center measured

Clearly Effective

Pigments Treatment

Tattoo Removal and Laser Toning

Picowon's zoom handpiece delivers picosecond laser's higher photoacoustic effects to pigment particles, resulting in fast and better results in tattoo removal and pigmentation treatment.



Feature



Wide Range
of Spot Sizes

Collimated Beam
at 8mm

Indications

Multi-colored Tattoo Removal



| Body Tattoos |



| Cosmetic Tattoos |



| Lentigines & Freckles |



| Melasma |



| Nevus of Ota |



| ABNOM |

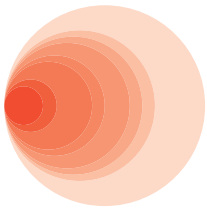
Brilliant Solution

Skin Rejuvenation and Scar Treatment

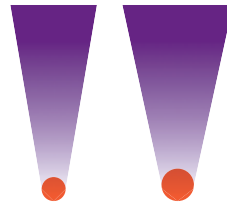
PICOWON using a novel MLA(Micro Lens Array) effectively improves skin texture, skin tone, fine lines and large pores. MLA generates Laser Induced Optical Breakdown(LIOB), which creates cavitation into the skin while preserving stratum corneum and basal membrane, leading to effective skin rejuvenation and scar treatment.



Feature



All Spot Sizes in One H/P
(2mm to 8mm)



Adjustable Fluence per Spot Size

Indications

Skin Rejuvenation



| Uneven Skin Texture |



| Dull Skin Tone |



| Fine Lines / Wrinkles |



| Enlarged Pores |

Scar Treatment



| Acne Scars |



| Atrophic Scars |

PICOWON

Picosecond 755 nm Alexandrite Laser

Wavelength	755 nm
Laser Type	Picosecond Alexandrite Laser
Pulse Energy	230 mJ
Pulse Width	< 700 ps
Peak Power	0.33 GW (700 ps)
Pulse Rate	1to 5 Hz
Spot Size	2, 3, 3.5, 4, 5, 5.5, 6, 8 mm
Start Up Time	< 10 minutes
Dimensions	500(W) x 960(D) x 900(H) mm
Weight	100 kg



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