

PICOWON



Picosecond 755nm Alexandrite Laser

Multi-colored Tattoos
Benign Pigmented Lesions
Skin Rejuvenation
Scar Treatment

755nm · Zoom · MLA

Adjustable Fluence

- Wide Range of Fluence
- Better Efficacy in Outcomes
- More Safety in Dark Skin Types

Smart Handpiece

- Light and Convenient Handling
- Wide Range of Spot Sizes
- Collimated Beam at 8mm

HEXA MLA

- Wide Range of Spot Size
- All Spot Sizes in One H/P
- Adjustable Fluence per Spot Size

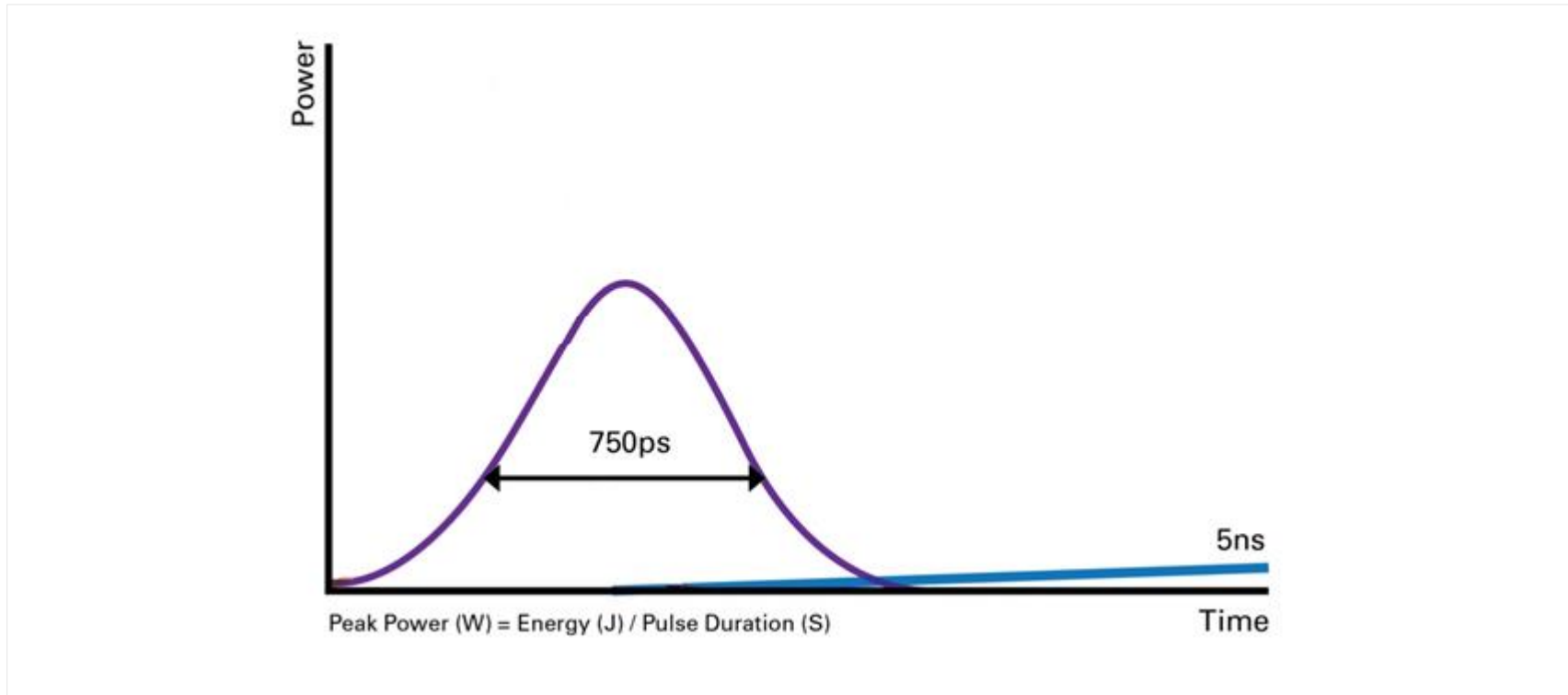
Specifications

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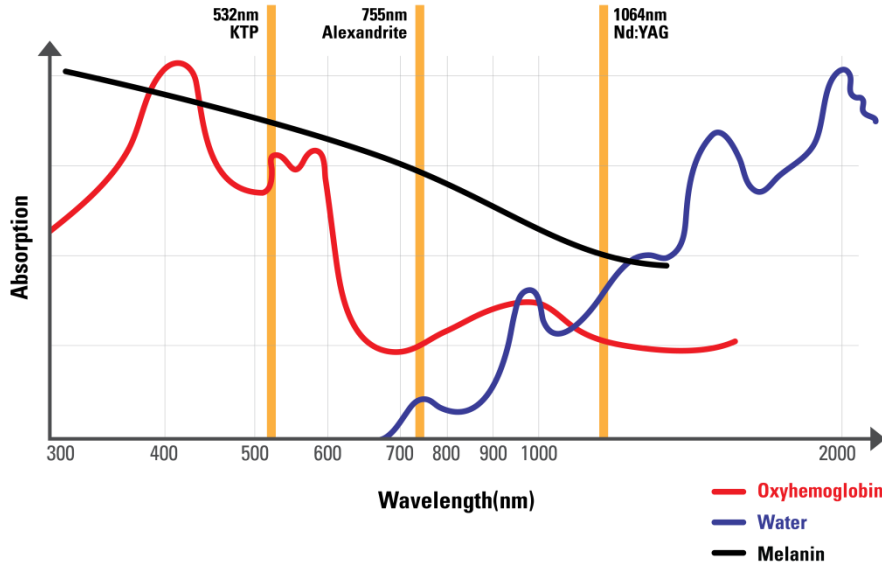
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Wavelength	755nm
Laser Type	Picosecond Alexandrite Laser
Pulse Energy	230mJ
Pulse Width	600–800ps
Peak Power	0.33GW (700ps)
Pulse Rate	1–5Hz
Spot Size	2, 3, 3.5, 4, 5, 5.5, 6, 7, 8 mm
Start Up Time	< 15minutes
Dimensions	500(W) * 960(D) * 900(H)
Weight	100Kg





- At the same energy conditions, the shorter the pulse duration, the greater the peak power.
- As the peak power increases, the photoacoustic effect increases.
- Picosecond laser is superior to nanosecond laser for excellent tattoo removal / pigmentation treatment



- 755nm
- Melanin absorption ++
- Gap between Melanin and HbO₂ absorption ++
- Penetration to the upper layer of dermis

	532nm	1064nm	755nm
Melanin	650	65	200
Hemoglobin	260	4	4
Selectivity	2.5X	16X	50X



Multi-colored Tattoo Removal

- Body Tattoos
- Cosmetic Tattoos



Pigmented Lesion Treatment

- Lentigines
- Freckles
- Café-Au-Lait
- Age Spot
- PIH
- Melasma
- Nevus Ota



Skin Rejuvenation

- Uneven Skin Texture
- Dull Skin Tone
- Fine Lines / Wrinkles
- Enlarged Pores



Scar Treatment

- Acne Scars
- Atrophic Scars

Pigmentation Treatment

- **Fitzpatrick Skin types III-IV**
- **Epidermal and dermal pigmentation**
- **Recalcitrant pigmentation (Café-Au-Lait, Becker's Nevus, etc)**
- **Toning/brightening**



Tattoo Removal

	Dark Brown	Light Brown	Red	Orange	Yellow	Green	Blue	Purple	Black
532nm		○	○	○	○				
595nm							○		
660nm						○	○	○	
755nm	○					○	○	○	○
1064nm	○					○	○	○	○

Choudhary, S., et al. (2010). Lasers for tattoo removal: a review. *Lasers in Medical Science*, 25:619–627.
 Kirby, W., et al. (2013). Causes and Recommendations for Unanticipated Ink Retention Following Tattoo Removal Treatment. *Clinical Aesthetic Dermatology*, 6(7), 27–31.



“Intuitive user interface improves user convenience”

Zoom Handpiece



- Spotsize: 2 to 8 mm
- Indications : Pigments Treatment, Tattoo Removal and Laser Toning
- Special note : Collimated at 8mm (up to 50cm away)

Wide Range of Spot Sizes



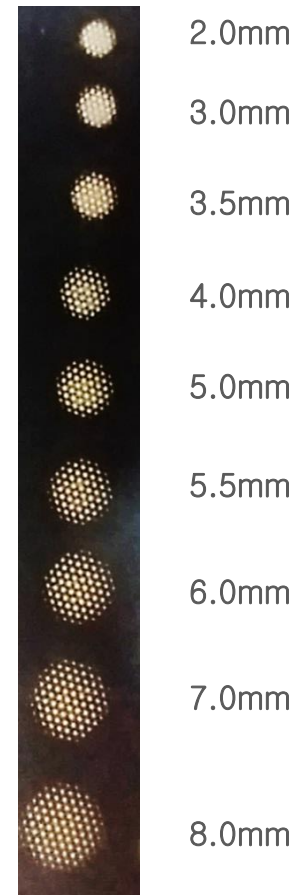
2 3 3.5 4 5 5.5 6 7 8

MLA Handpiece



- Spot size: 2 to 8 mm
- Indications : Skin Rejuvenation and Scar Treatment
- Special note: All Spot Sizes in One H/P

Wide Range of Spot Sizes



- **Energy Ranges**
 - Zoom : 170–230mJ
 - MLA : 160~220mJ
- Wide range of energy settings can be available
- Maximize treatment effect by using appropriate parameters according to each lesion
- Dark skin type can be treated safely

Zoom H/P Spot Size (mm)	PICOWON		C company
	Min(J/cm ²)	Max(J/cm ²)	Fixed (J/cm ²)
2	5.4	7.3	6.37
2.5	–	–	4.07
3	2.4	3.3	2.83
3.5	1.8	2.4	2.08
4	1.4	1.8	1.59
4.5	–	–	1.26
5	0.9	1.2	1.02
5.5	0.7	1.0	0.84
6	0.6	0.8	0.71
7	0.4	0.6	–
8	0.3	0.5	–



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