

The Alma logo is displayed in a white, bold, sans-serif font. The letter 'A' is stylized with a horizontal line through its center. The background of the top-left corner features a dark grey pattern of overlapping circles.

**Alma**

For You. For Life.



**PICO CLEAR**

CLEARLY DIFFERENT

A close-up portrait of a young woman with light brown hair and blue eyes, looking slightly off-camera. She has a large, colorful tattoo on her right shoulder, featuring swirling patterns in teal, red, and black. The background is a soft, out-of-focus grey.

HIGH PEAK POWER ✧ SHORTEST PICOSECOND LASER ✧ DOUBLE PULSE FEATURE  
VERSATILE TREATMENTS ✧ VARIOUS WAVELENGTHS

PICO CLEAR presents a new era in skin rejuvenation and tattoo removal, offering optimal results for wrinkle reduction, removal of colorful tattoos and benign pigmented lesions with just few treatments.

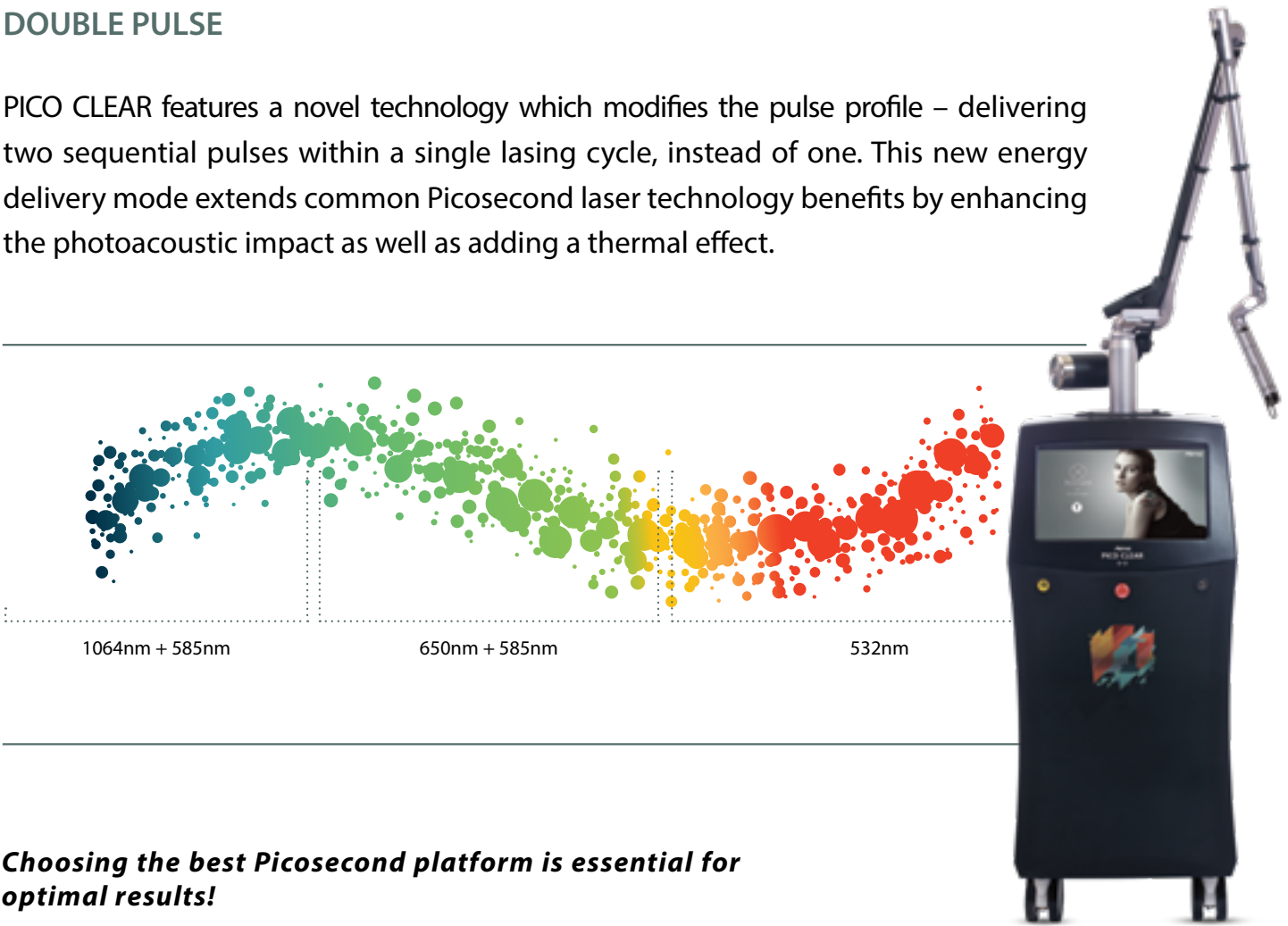
PICO CLEAR - THE SUPERIOR TECHNOLOGY

SHORTEST PULSE DURATION

Alma's PICO CLEAR offers top-of-the-line technology featuring the shortest pulse duration in the market of 300-350 picoseconds. This state-of-the-art flexible platform allows the practitioner to control multiple function parameters to create tailored treatments: wavelength, energy level, spot size, energy delivery mode and repetition rate.

DOUBLE PULSE

PICO CLEAR features a novel technology which modifies the pulse profile – delivering two sequential pulses within a single lasing cycle, instead of one. This new energy delivery mode extends common Picosecond laser technology benefits by enhancing the photoacoustic impact as well as adding a thermal effect.



Choosing the best Picosecond platform is essential for optimal results!

MAIN INDICATIONS

Skin Rejuvenation

Skin rejuvenation treatment protocols are based on fractional energy delivery at various skin tissue depths. PICO CLEAR excels the standard treatment protocol using the following unique features:

- 7X7 pixel array fractional applicator offering an optimal energy spread and coverage
- 5 treatment depths options
- Double pulse mode, effectively combining photoacoustic and thermal tissue interactions, resulting in improved ECM (Extra Cellular Matrix) regeneration



Before



After 4 Treatments



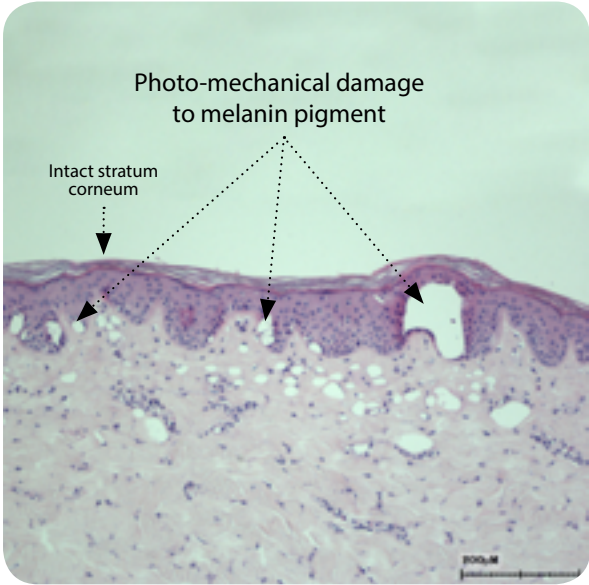
Before



After 4 Treatments

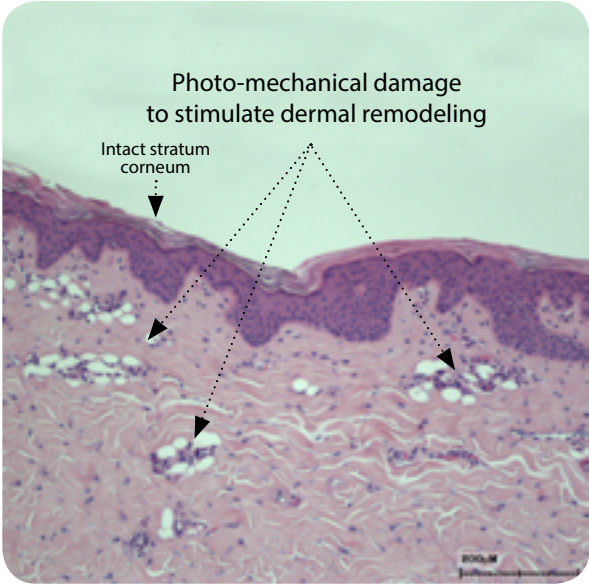
\* Courtesy of Alma's clinical department

Picolor: 5J/cm²



\*Porcine skin model

PicoLift: 7mJ/pixel, 10Hz



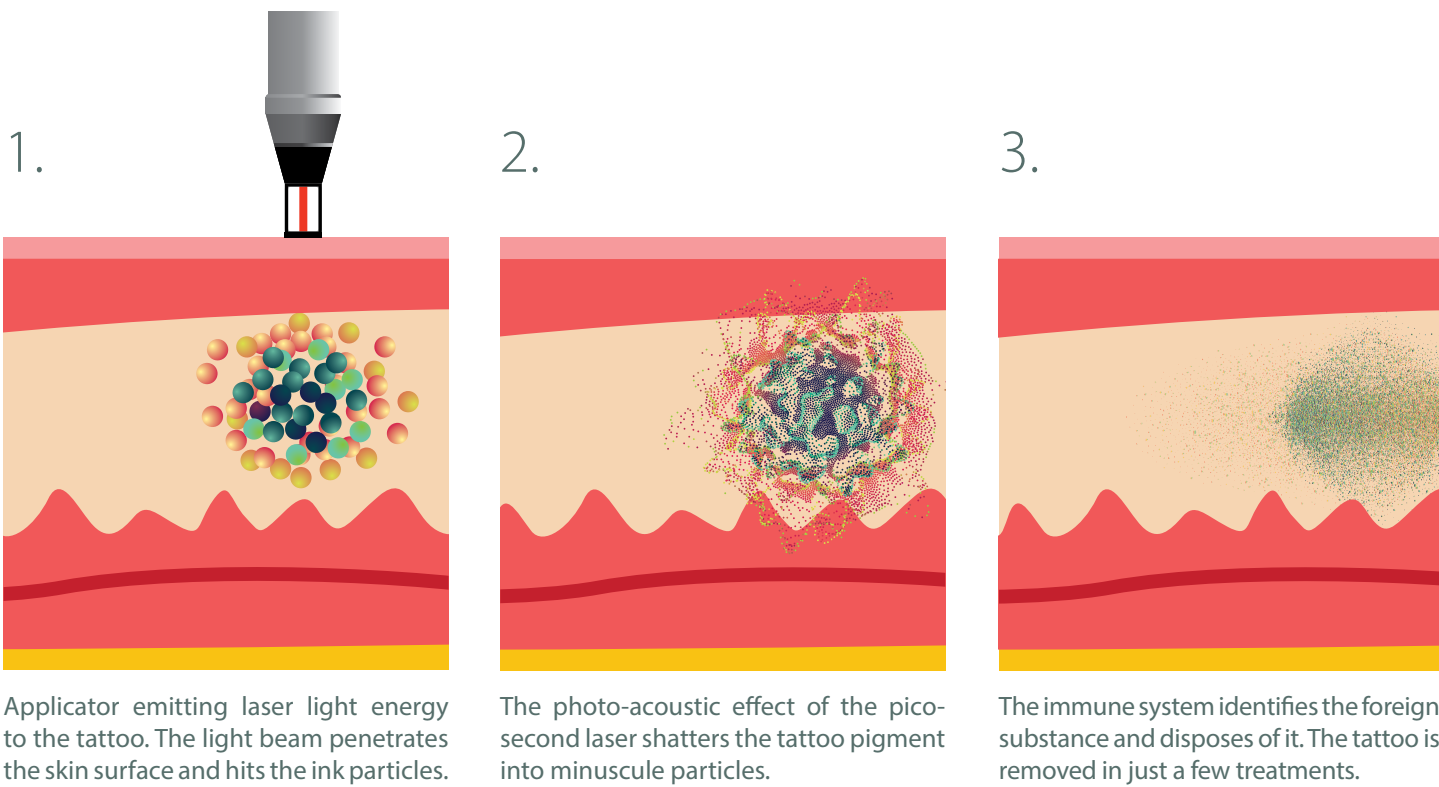
\*Porcine skin model



# Tattoo Removal

PICO CLEAR's mode of operation is based on delivering ultra-short picosecond pulses of energy into the skin tissue. A shorter pulse duration means a higher convergence rate of laser energy into the mechanical force needed in order to shatter the colored pigments into small fractions. The shorter the pulse duration is, the smaller the shattered particles are, from pebbles, to granule and up to thin dust.

In colored tattoos, the double pulse sequence can shatter colored tattoo ink more effectively, due to higher peak power and a more substantial photoacoustic effect than a single mode. The double pulse mode in Clear-Y (585nm) & Clear-R (650nm) applicators will yield more effective treatment and less treatment sessions.



APPEARANCE ON SKIN:



*\* Courtesy of Alma's clinical department*

# Pigmented Lesions

PICO CLEAR is able to treat both superficial & deep pigmented lesions. The dual wavelength option allows to treat epidermal-dermal lesions with its 532nm wavelength and deep pigmented lesions with the 1064nm to target melanin.

PICO CLEAR has one of the shortest pulse duration in the market, making it ideal to treat pigmented lesions using a very high peak energy that instantly increases the temperature of the chromophore, leading to a photoacoustic effect which effectively destroys the chromophore. The high energy pulses shatter the pigment into tiny fragments which may need fewer sessions to treat as compared to other pico lasers or nanosecond lasers.



*\* Courtesy of Alma's clinical department*

# FULL RANGE OF INDICATIONS

- Skin Rejuvenation
- Dark Ink Tattoos
- Colored Ink Tattoos
- Lentigines
- Café-au-lait Birthmarks
- Benign Pigmented Lesions
- Acne Scars
- Wrinkles Reduction

# WIDE VARIETY OF APPLICATORS

PICO CLEAR offers an extensive array of applicators, each designed for a specific treatment and indication, together covering a full spectrum of solutions.



**Picolor**  
Offers 9 spot sizes options, ranging between 2 and 10mm, addressing various types, severities and depths of pigmented lesions and tattoos. The Picolor applicator can be used both in Nd:YAG (1064nm) mode and Double Nd:YAG (532nm) mode, using simple on-screen setup.

**PicoLift**  
Employs a fractional delivery method which creates pixel-sized perforations in a 7x7 non-ablative pattern, leaving the surrounding tissue intact. These microinjury sites trigger a wound healing process that strengthens collagen and stimulates neo collagenesis, completely rejuvenating the target tissue. Five distinct treatment depths are available for maximum flexibility and precision.



**Homogenizer 1064 & Homogenizer 532**  
Square homogenized laser beam profile featuring flat-top energy signature for uniform and consistent surface coverage, preventing hot spots. This applicator offers two footprint options - a 3 X 3 mm square and a 5 X 5 mm square.

**CLEAR-Y & CLEAR-R**  
These applicators extend the Picolor applicator’s capabilities, offering two additional wavelengths, targeting challenging tattoo colors. The CLEAR-Y applicator is emitting 585nm wavelength specifically targeting sky blue color. The CLEAR-R applicator is emitting 650nm wavelength specifically targeting green and teal colors.



*“Alma’s PICO CLEAR delivers impressive results using exclusively picosecond technology. The use of different wavelengths and a variety of spot sizes provides me the flexibility to treat a variety of clinical indications with maximum accuracy. The easy and intuitive setup of the platform is a nice bonus, too. PICO CLEAR is my ultimate preference for tattoo and pigment removal, knowing I offer an efficient solution without compromising safety, or accuracy.”*

**Dr. Stefan Sünkel, MD, diehautaerzte.com, Starnberg, Germany**

## BENEFITS



Shortest Pulse Duration,  
Enabling High Peak Power



Improved ROI with Excellent Results in  
Fewer Treatments



Unique Double Pulse Mode



Versatile Platform Enabling Multiple  
Patient-Tailored Treatment Options



Supreme Feature-Set



Suitable for All Skin Types

## TECHNICAL SPECIFICATIONS:

Laser Type	Nd:YAG			Double Frequency Nd:YAG			
Wavelengths	1064 nm			532 nm	650 nm	585 nm	
Applicator	Picolor	PicoLift	Homogenizer 1064	Picolor	Homogenizer 532	CLEAR-R	CLEAR-Y
Maximum Energy	450 mJ	350 mJ	400 mJ	250 mJ	220 mJ	60 mJ	90 mJ
Pulse Duration	350 ps			300 ps			
Peak Power	1.3 GW	1.0 GW	1.1 GW	0.8 GW	0.7 GW	0.2 GW	0.3 GW
Spot Sizes	2-10 mm	11 x 11 mm	5 x 5 / 3 x 3 Square	2-10 mm	5 x 5 / 3 x 3 Square	2 mm	
Matrix	-	7 x 7 Microbeam array	-	-	-	-	-
Repetition Rate	Single 1-10Hz					1 Hz	1,2 Hz
Delivery System	Articulated arm with 2 wavelengths zoom handpiece + pixel, Homogenizer 1064, Homogenizer 532, 650(R), 585(Y) handpieces 7 joints articulated arm						
Warm Up Time	Less than 1 minute						
User Interface	Touchscreen 15.6" with GUI						
Size	With articulated arm: 89 cm (35") x 46 cm (18") x 190 (74"), Without articulated arm: 89 cm (35") x 46 cm (18") x 110 (43")						
Weight	275 Lbs. / 125 Kg.						
Power Requirements	230 VAC, 50/60 Hz, 30 A, 4600 VA single						

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