

# PicoSure specifications

## General specifications

Nominal wavelength	532nm	755nm
Pulse duration	<600ps	750ps
Pulse energy	up to 1.1J/cm <sup>2</sup>	200mJ
Electrical power	200-240 V~, 4.5 kVA, 50/60Hz, single phase	200-240 V~, 4.5 kVA, 50/60Hz, single phase
Electrical service requirement	30Amp	30Amp

## Handpiece specifications

Zoom handpiece	N/A	
Spot size	N/A	2.0-6.0mm
Fixed handpieces		
Spot size	1.5mm and 2.0mm	6.0, 8.0, 10.0mm

Lens Array	Number of pulses	
Focus	40,000 (at 35,000 a message alerts user)	

Contact Cynosure today for more information about PicoSure and maximise your business potential in the aesthetic laser market.

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# PicoSure<sup>®</sup> Tattoo Removal

Fast & effective tattoo removal



CYNOSURE

Palomar  
ConBio  
ellman

CYNOSURE

Palomar  
ConBio  
ellman

CYNOSURE  
PicoSure<sup>®</sup>



## Unprecedented innovation in laser technology.

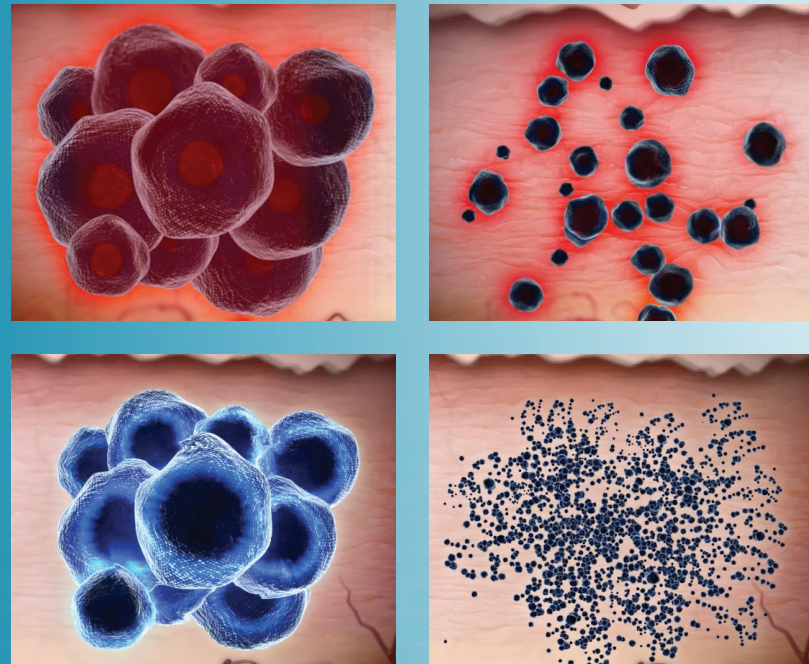
PicoSure, the world's first, fast and effective picosecond aesthetic laser has arrived. This unparalleled breakthrough in laser technology delivers ultra-short pulse bursts of energy to the skin in trillionths of a second. Picosecond pulse width is 100 times shorter than nanosecond technology, enabling unmatched photomechanical impact for better clearance with fewer treatments, less fluence and without injury to the surrounding skin. In addition to tattoo removal treatment offerings, PicoSure now enables you to perform skin revitalisation on a wide range of skin types.





# Picosecond vs. nanosecond technology

Traditional nanosecond lasers predominantly rely on photothermal action, delivering heat to the pigment and surrounding tissue.



PicoSure takes advantage of PressureWave™ technology to shatter the targeted ink into tiny particles that are easily eliminated by the body.

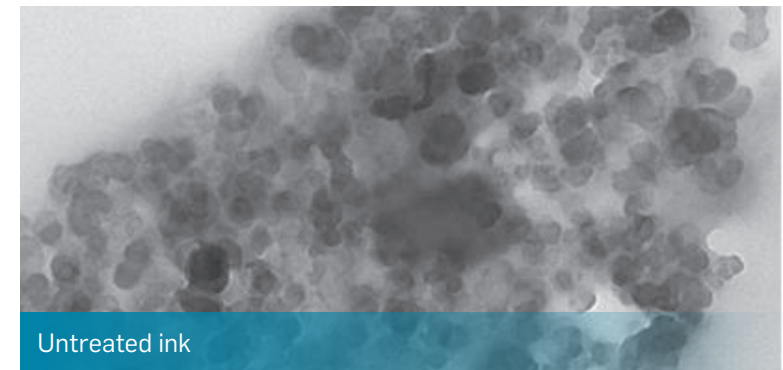
## The PicoSure difference: PressureWave™ technology

PicoSure uses the latest technology to remove ink colours by delivering ultra-short picosecond pulses of energy into the skin. These pulses create a photomechanical effect, or PressureWave, that targets ink while avoiding unmarked tissue. PressureWave shatters the ink into tiny, dust-like particles which are easily eliminated by the body. This results in clearer skin with fewer treatments without injuring the surrounding skin.

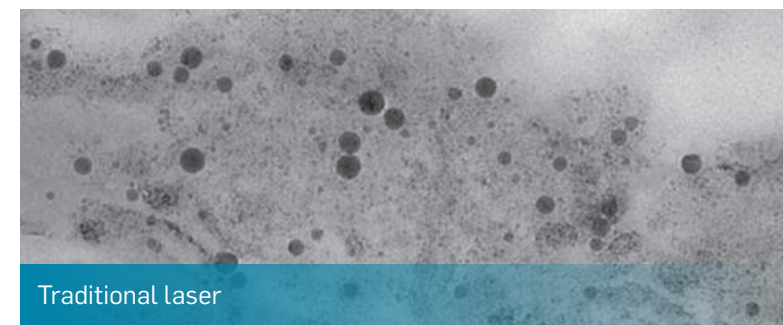
# Tattoo laser response comparison

## Ultra-short pulse duration is the difference

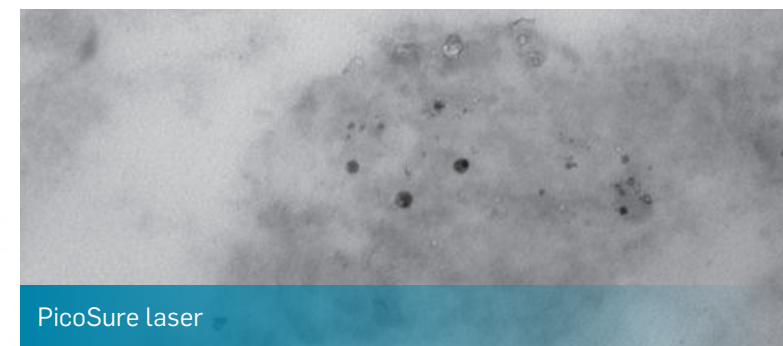
- ▶ Picosecond pulse width is 100X shorter than nanosecond technology
- ▶ Only ultra-short pulse durations trigger photomechanical effect
- ▶ With this short pulse width, half the fluence is required compared to Q-Switched nanosecond lasers



Untreated ink



Traditional Laser



PicoSure Laser

*Electron Microscopy images courtesy of H.R. Jalian, M.D*

## Comparison between Q-Switched lasers and PicoSure



Tattoo before



After 1 month, 3 treatments

*Photos courtesy of Cynosure, Inc.*



# PicoSure FOCUS™ Lens Array for skin revitalisation

## Expand the power of PicoSure

The FOCUS Lens Array is designed to concentrate the energy of PicoSure on smaller areas of tissue, offering highly effective skin revitalisation treatment options.

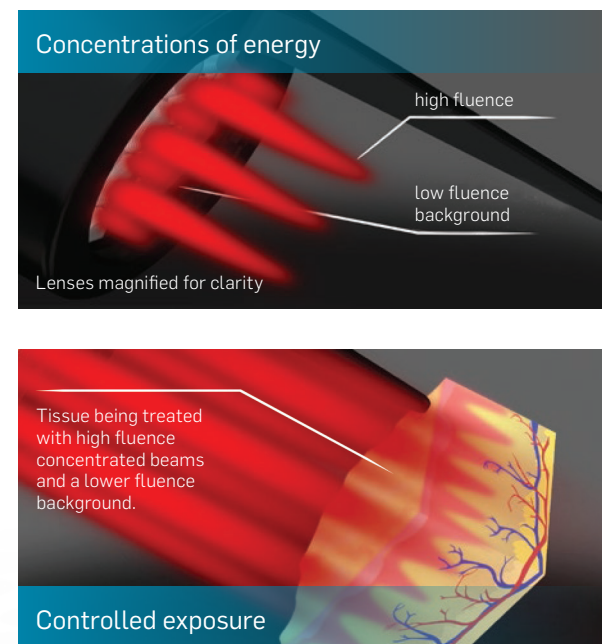
Each FOCUS Lens Array is comprised of hundreds of microlenses per cm<sup>2</sup>.

Microlenses redistribute the PicoSure pulse into highly concentrated beams, surrounded by a lower fluence background.

The FOCUS Lens Array channels the powerful photomechanical effect of PicoSure into focused rays.

- The energy of a focus array is 20X that of a standard PicoSure pulse.
- Concentrated energy treats 10% of the tissue, while the surrounding area is treated by a lower fluence for a gentler background effect.

The FOCUS Lens Array can be used on a wide variety of areas of the body, such as the face, décolletage, hands and arms.



## Better results in fewer treatments

