

# PRODUCTS & SERVICES

# PICOCARE 450

A MERGER OF INNOVATIVE TECHNOLOGIES AND VERSATILITY.  
THE RESULT IS A WHOLE FAR GREATER THAN THE SUM OF ITS PARTS.

Cryomed's second generation medical laser offers many advantages for clinicians, thanks to its combination of two leading edge technologies: ultra-short picosecond laser and HEXA Laser Induced Optical Breakdown. Outcomes include an impressive range of treatment options for common skin conditions and patient requirements, better efficacy and faster recovery times.

PICOCARE 450 can be used for tattoo removal, scar treatments and skin rejuvenation, in addition to addressing specific epidermal and dermal pigmentation issues like Becker's nevus, Café-Au-Lait, melasma, Ito nevus, Ota nevus and post inflammatory hyperpigmentation.

Key to the versatility of this device is its dual wavelength capabilities. The 532nm setting is a visible spectrum that is primarily absorbed in the epidermal layer, while the 1064nm option is an infra-red/ non-visible spectrum that enables greater penetration into the dermal layer to treat lesions.

## Enhanced treatment efficacy

Higher peak power combined with shorter pulse duration provides better efficacy for the treatment of pigmentation, tattoos, epidermal and dermal lesions. When it comes to Laser Induced Optical Breakdown (LIOB) and pigment removal and skin rejuvenation, the underlying principle is to disrupt the target problem without damaging the epidermis. This process stimulates a healing response from the body with increased production of collagen, elastin and mucin.

The PICOCARE 450 is in a class of its own for speed (450 picosecond pulse duration) and power (peak power of 1.33GW). Most lasers and IPL devices have pulse durations measured in the microsecond (millionth) and nanosecond (billionth), whereas the picosecond pulse is measured in trillionths of a second. A shorter pulse delivers higher peak power, which in turn results in significantly smaller debris size, meaning

the particles can be more easily eliminated from the body.

Traditionally, multi-coloured tattoos have been difficult to treat as each ink pigment can react differently to the wavelength employed. With four pico wavelengths, (1064nm, 532nm, 595nm, 660nm) the PICOCARE 450 removes a full range of colour from tattoos, including the normally troublesome greens and blues. The picosecond pulse speed means fewer shots are required, thus treatments are faster and considerably less painful.

## HEXA MLA for enhanced precision

The HEXA Microlens Array handpiece is a truly remarkable piece of technology. It focuses up to 15 times more energy into each dot, thanks to its exceptional quality and refractive properties. The MLA actually bears an uncanny resemblance to the compound eyes found in the insect world, where the many ommatidia (lens-like elements) combine multiple images, resulting in vastly higher resolution.

Ultra-precise irradiation has the advantage of minimising the risk of damage to surrounding tissue and speeding up patient recovery times. Compared to Fractional Ablative systems, Picocare's MLA-LIOB system offers numerous advantages, including fewer treatments, less discomfort and a reduced risk of side effects.

## Practical results and productivity

Sydney dermatologist Dr Adrian Lim is Dean of the College of the Australasian College of Dermatology and a clinical trials director at Central Sydney Dermatology. He uses the PICOCARE 450 in his own practice and has achieved exceptional results with it for his patients.

In a recent webinar, Dr Lim describes a number of common and hard-to-treat conditions which he has had great success treating with the PICOCARE 450. These included acne scarring with PIH, photo-ageing, melasma and even iron infusion staining.

Dr Lim feels LIOB shows great promise in the area of dermal resurfacing, as he experienced personally when having a scar treated on his own arm. He recounts having no discomfort during the treatment and significant subsequent improvement in both skin colour and texture.

Summarising its unique benefits in his online presentation, Dr Lim highlights:

- How the device really comes into its own with pigmentary conditions
- It is the benchmark for tattoos and pigmented birthmarks
- Highly effective for acne scars, skin texture and rejuvenation
- Versatile and safe for all skin colours
- Compatible with fillers for facial rejuvenation.

From a commercial standpoint, the PICOCARE 450's functionality across a wide range of treatment applications makes this device a strong value proposition. **AMP**

# PRODUCTS



## FEATURES SUMMARY

Frequency Doubled: 1064nm/523nm

Filtered Handpiece: 595nm/660nm

6 Handpieces: 2-10mm Zoom Handpiece  
7mm Collimated Handpiece  
2x 3-5mm & 6-10mm HEXA (Holographic MLA) Handpieces  
2x Filter Handpieces (Optional)

## TECHNICAL SPECIFICATIONS

Irradiation type: Nd:YAG

Pico Wavelength: 1064nm & 532nm +595, 660nm

Maximum Energy: 500mJ(1064nm), 300mJ(532nm)

Peak Power: 1.3GW(1064nm), 0.6GW(532nm)

Dimension: 450(W) x 940(D) x 870(H)mm

Weight: 90kg

For enquiries, call 1300 346 448 or visit [www.cryomed.com.au](http://www.cryomed.com.au)

## Device Applications

| Epidermal Pigment | Dermal Pigment                        | Tattoos            | Scars                 | Skin Rejuvenation |
|-------------------|---------------------------------------|--------------------|-----------------------|-------------------|
| ✓ Becker's nevus  | ✓ ABNOM*                              | ✓ Multiple colours | ✓ Acne scars          | ✓ Wrinkles        |
| ✓ Café-Au-Lait    | ✓ Ito nevus                           |                    | ✓ Chicken pox scars   | ✓ Dull skin       |
| ✓ Freckles        | ✓ Ota nevus                           |                    | ✓ Ice pick            | ✓ Dyschromia      |
| ✓ Lentigines      | ✓ Lentigines                          |                    | ✓ Boxcar              | ✓ Rolling         |
| ✓ Melasma         | ✓ Post Inflammatory Hyperpigmentation |                    | ✓ Dry & rough texture |                   |

\* Acquired Bilateral Nevus of Ota-like Macules