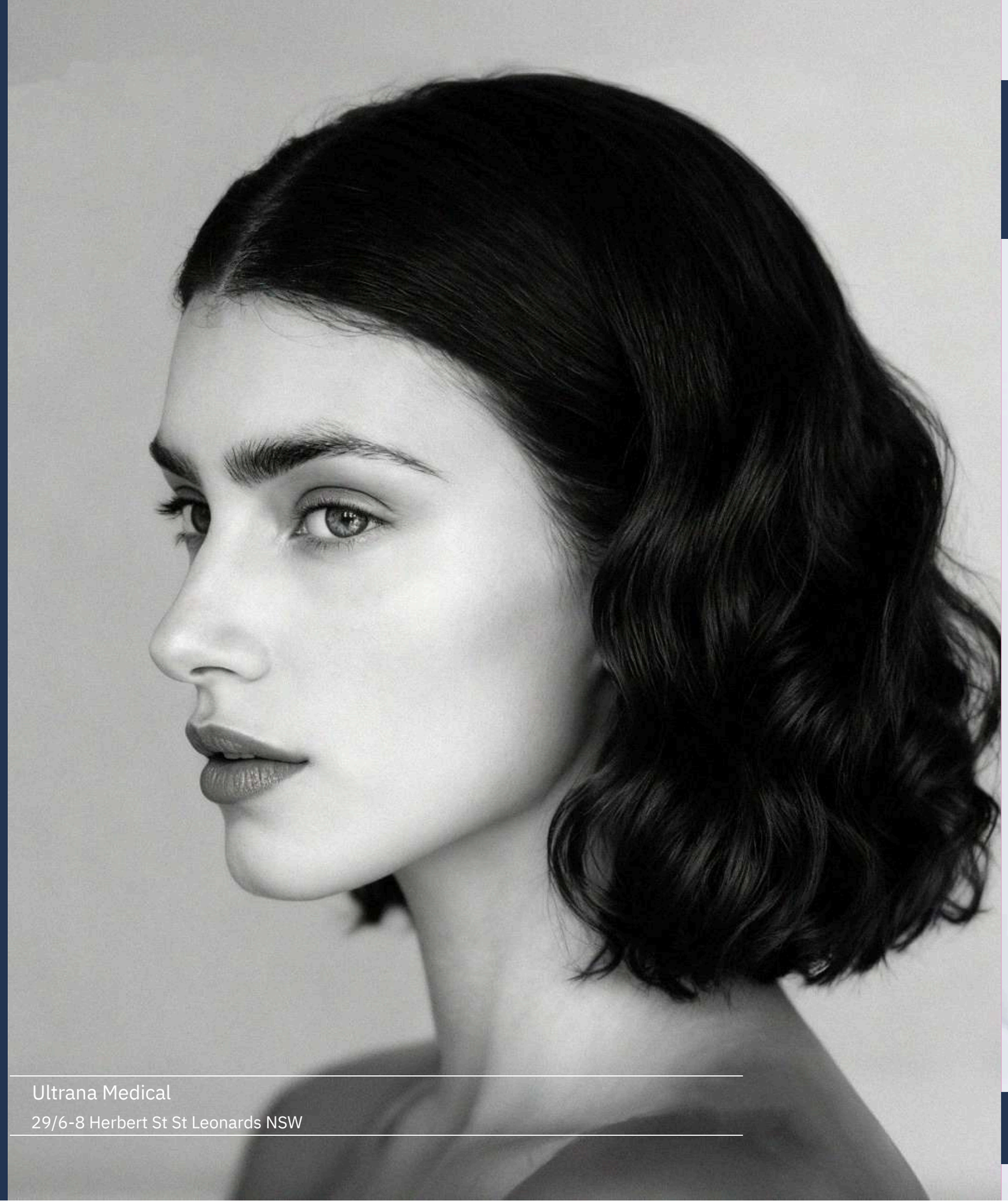


Ultrana Medical

29/6-8 Herbert St St Leonards NSW

1927nm

Thulium Fiber Laser

Intelligent
Interaction Mode



More
Comprehensive

More Precise

More Intelligent

More Efficient

www.ultrana.com.au

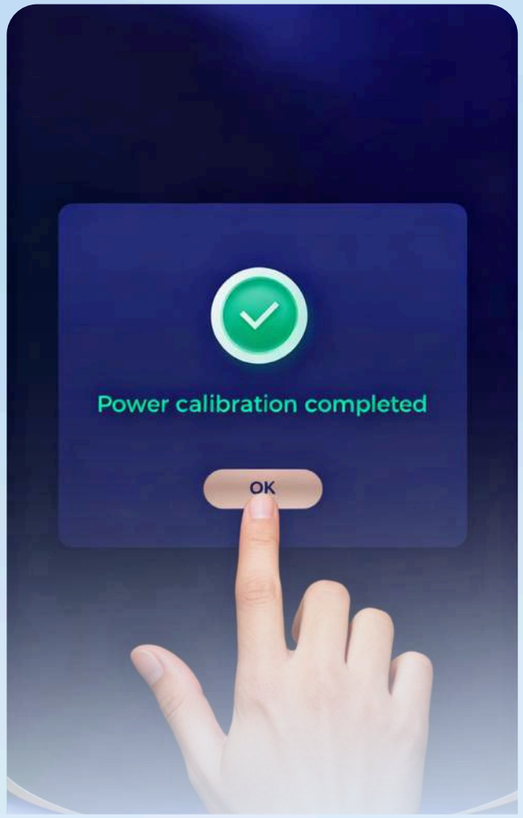
Upgraded Smart User System

- Advanced Parameters
  to address diverse indications

- **Real-Time Monitoring System and Rapid Auto Energy Calibration** enable users to perform more stable and accurate treatments.

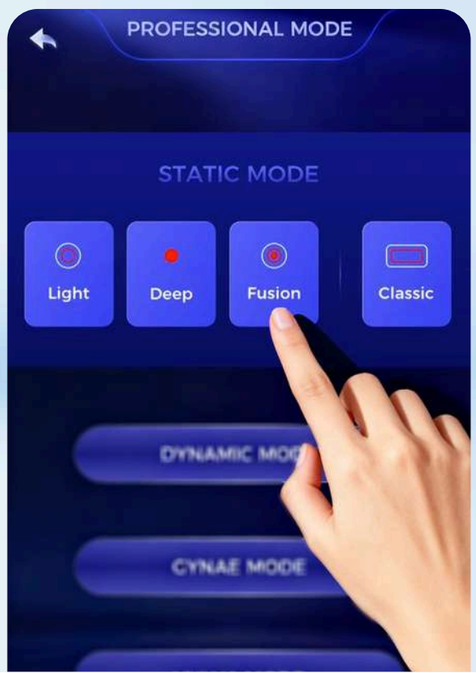






- Accurate Stratified Treatment
  Mode are integrated into the UI system,efficient and professional.





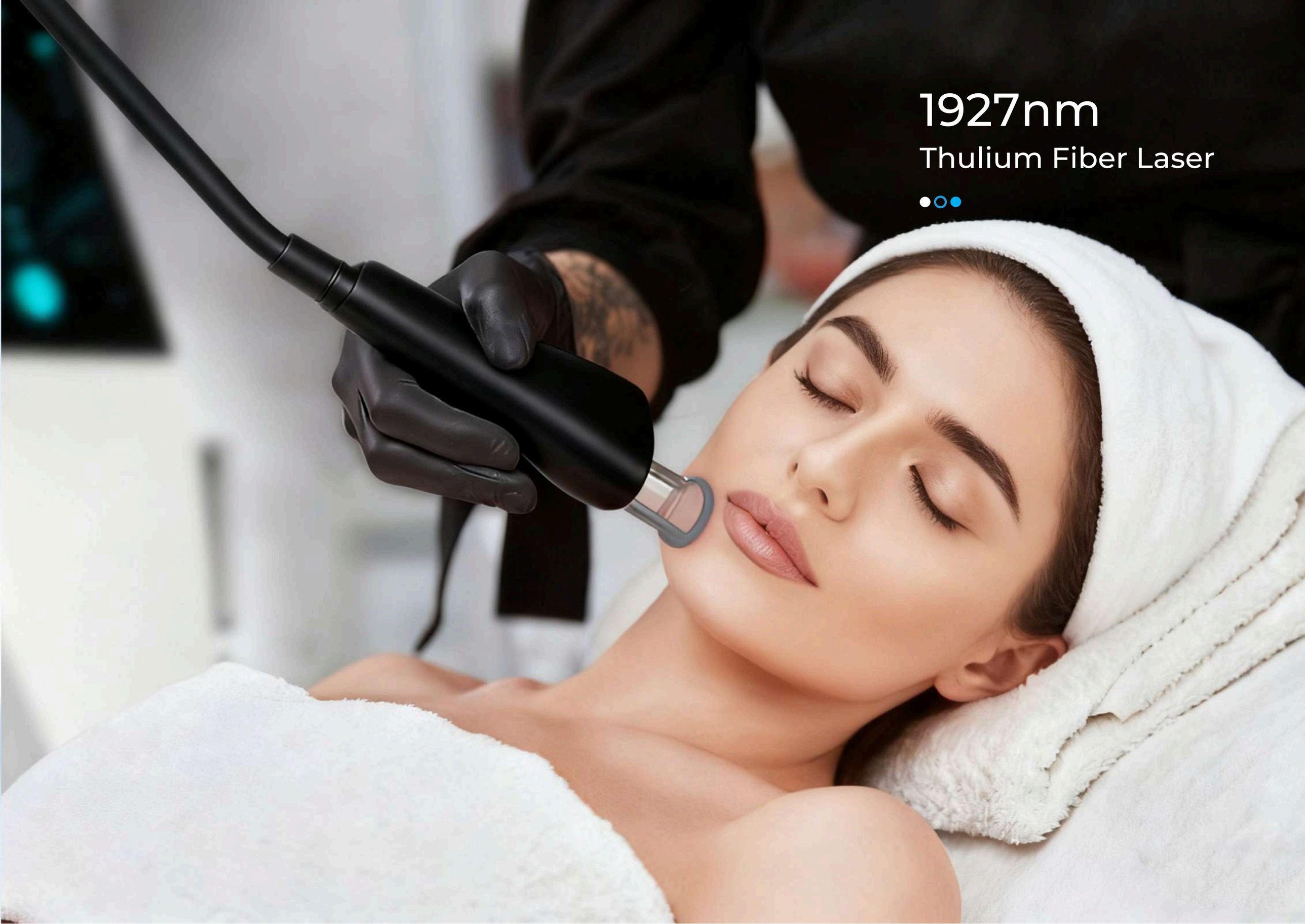
Real-Time Monitoring

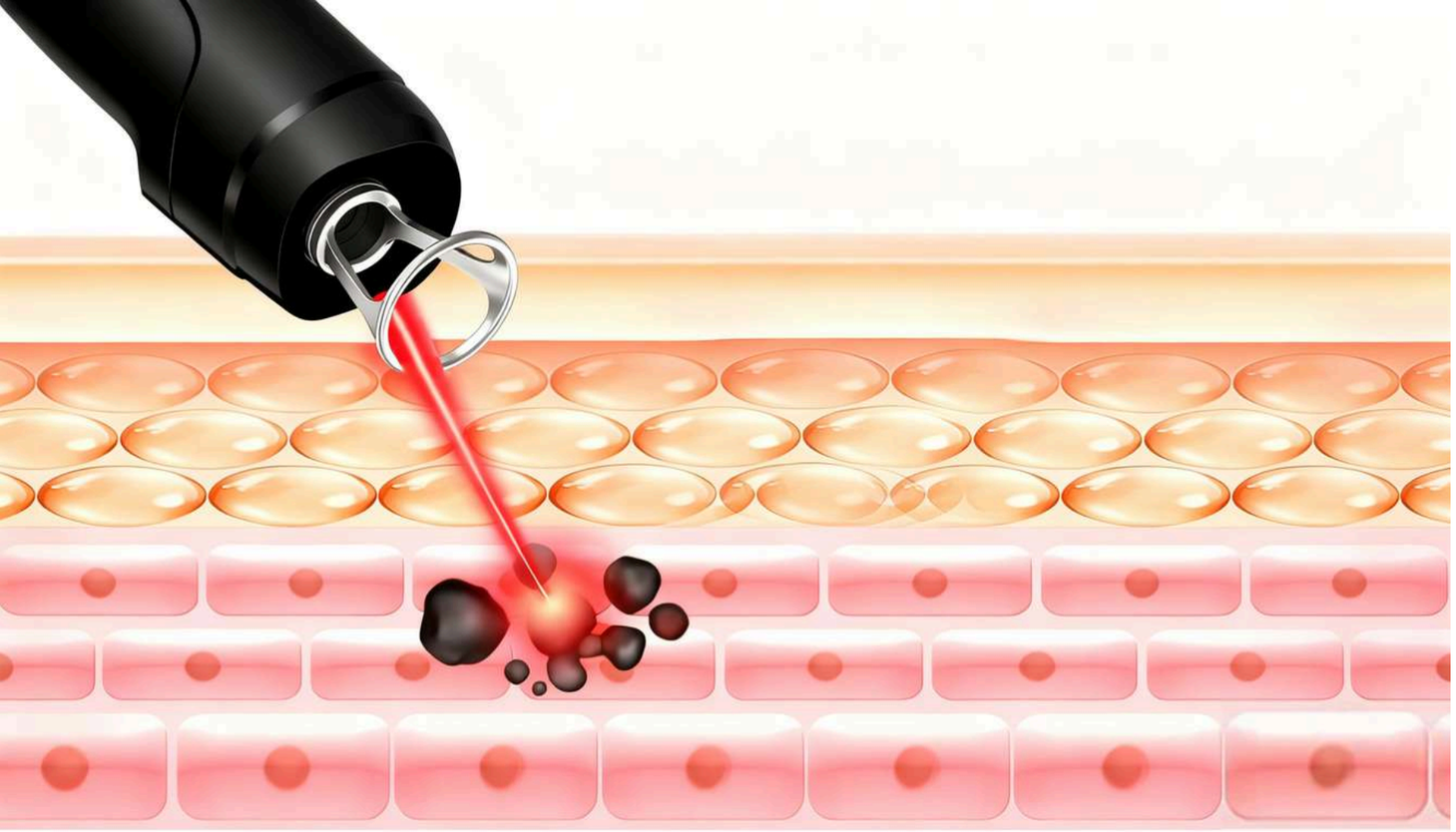
Fast Energy Calibration

Layered Precision Treatment

Comprehensive Coverage

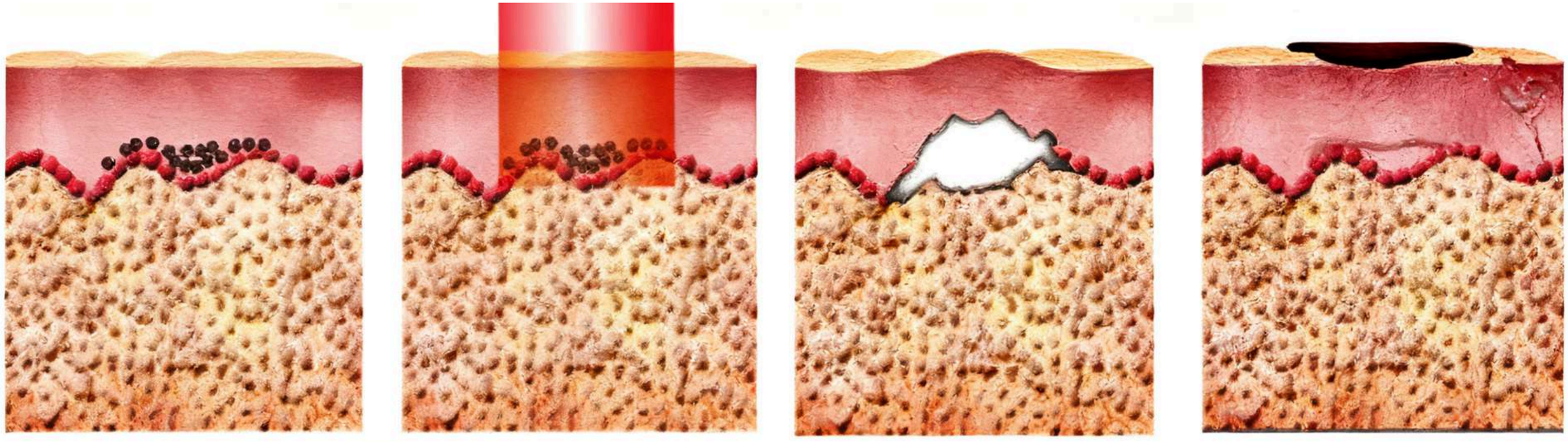



1927nm
Thulium Fiber Laser



Working Theory

The 1927nm thulium laser works on the principle of selective photothermolysis, targeting water within the skin to heat and stimulate tissue regeneration. This wavelength is particularly effective because it is strongly absorbed by water, especially in the epidermis and superficial dermis, while minimizing absorption by melanin. This allows for precise treatment of superficial skin concerns with minimal damage to surrounding tissue.



Melanin in the basal layer

Laser radiation

Laser action

Closing of stratum corneum

Indications of 1927nm Laser

- Pigmentation
- Photoaging and Skin Rejuvenation
- Anti-aging
- Actinic Keratosis (AK)
- Acne and oil control
- Enhanced Product Delivery
- Hair and Scalp Health
- Eye Area Rejuvenation
- Scar reduction

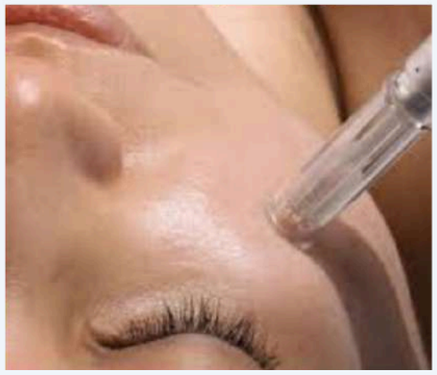


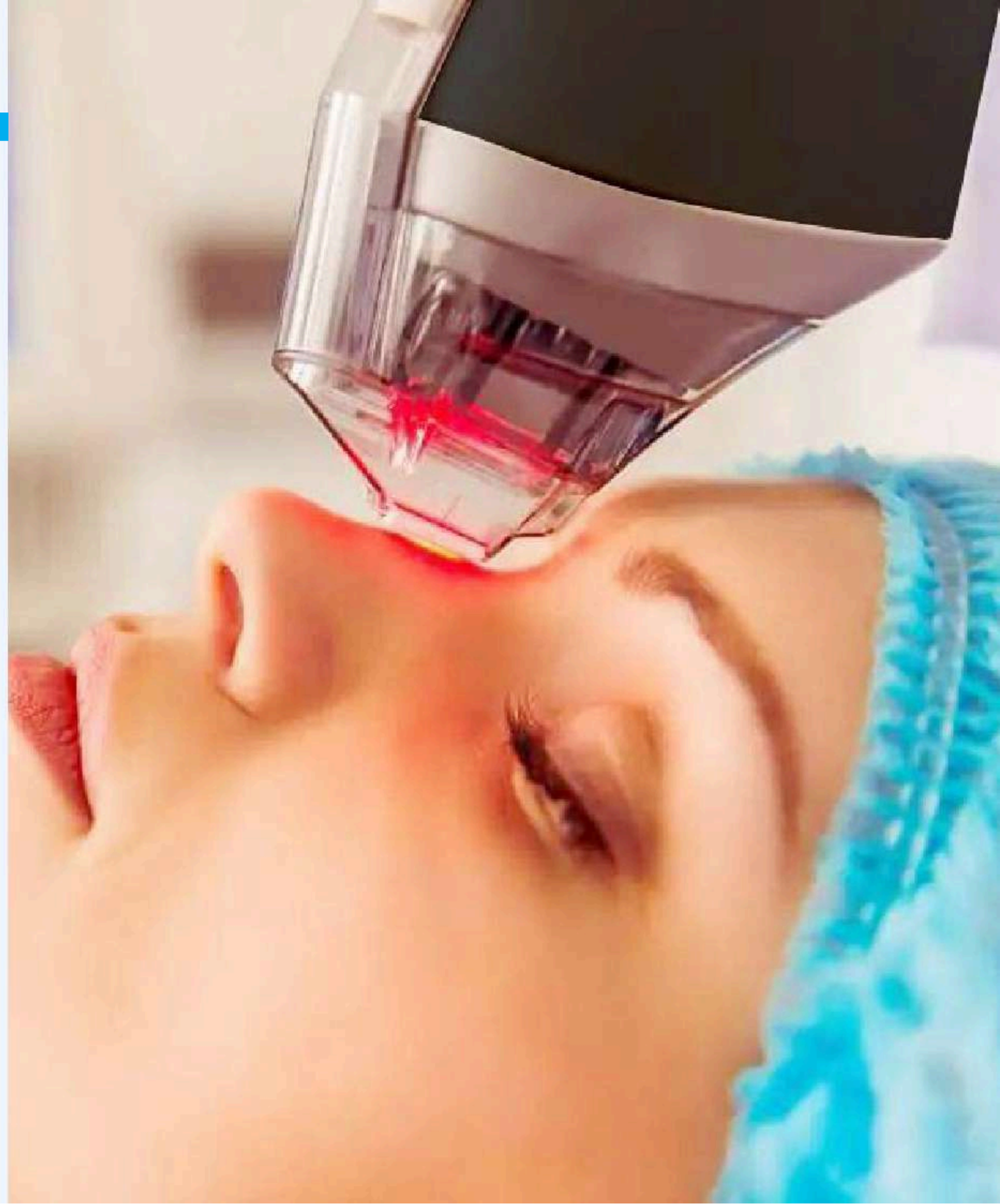








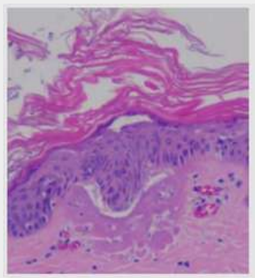




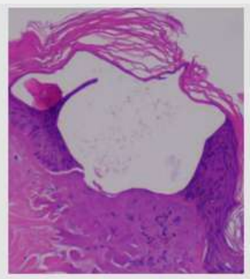
Why Choose the 1927nm Laser?

- **Superior on Pigmentation:** Expertly treats melasma, sun spots, freckles, and PIH with unmatched precision.
- **Minimal Downtime:** Only 1-2 days of slight redness and subtle flaking that clears in 3-5 days.
- **Safe for All Skin Types:** Its shallow depth and low heat make it a safe option for even darker skin tones (Fitzpatrick IV-VI).
- **Refining Texture & Tone:** Visibly reduces enlarged pores, fine lines, and mild acne scarring by renewing the skin.
- **Virtually Pain-Free:** Patients feel only a mild warming sensation, typically without needing numbing cream.

Double effects, safe and effective



Non-ablation

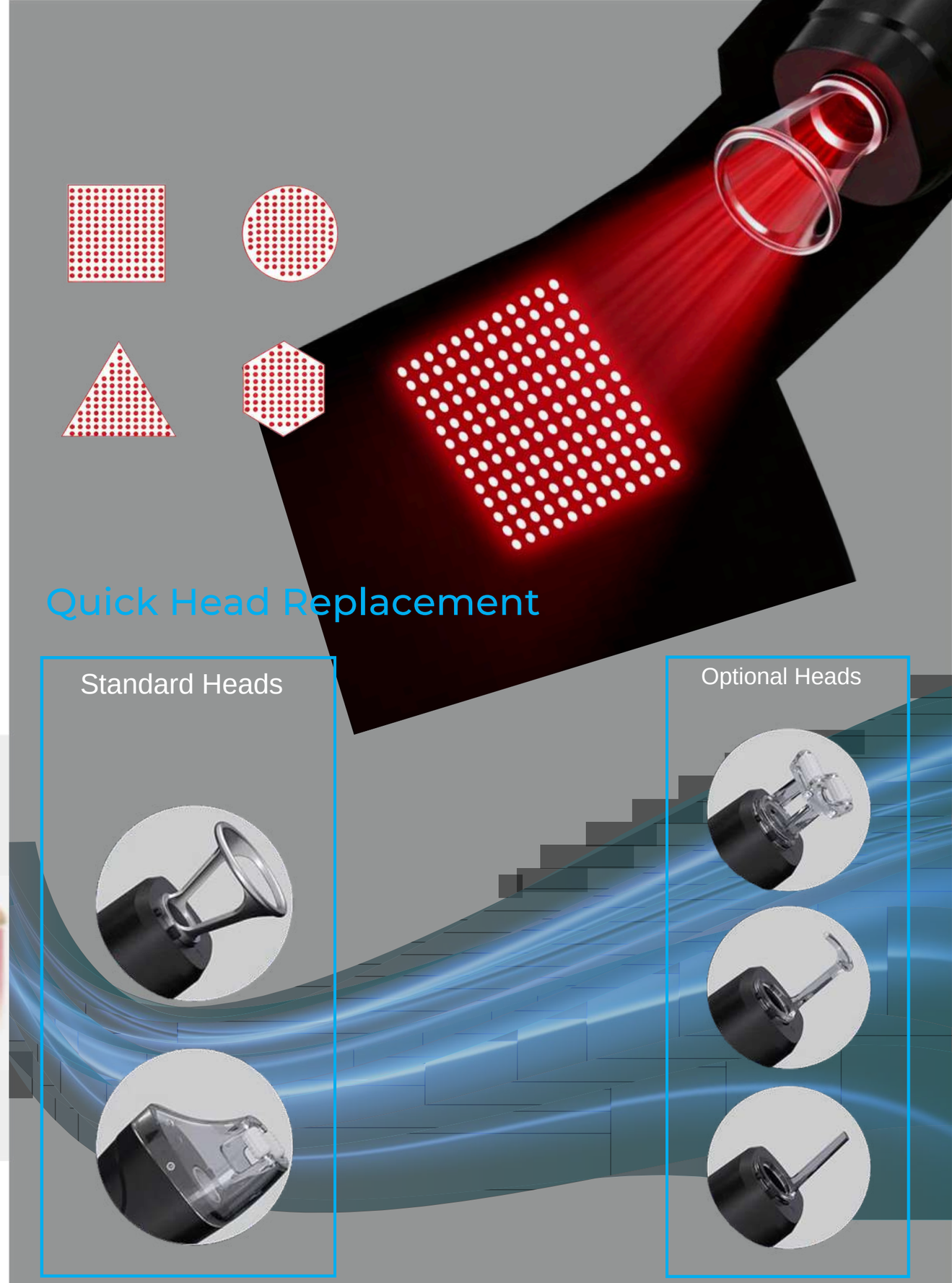


Ablation

Thulium 1927nm



Target to the junction between epidermis and dermis
Less downtime



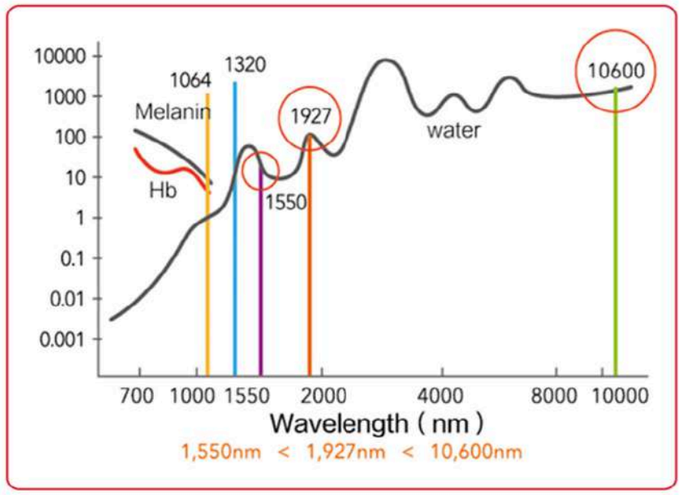


1927nm

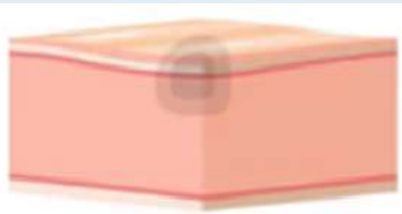
Thulium Fiber Laser

1550nm VS 1927nm VS 10600nm

- Thulium laser 1927nm has approximately **10 times** higher **water absorption** than Er:Glass (1550nm) and **24 times** lower than CO2 laser.



Non-ablative Er.Glass 1550nm



- Thermal effect to dermis
- Inducing protein denaturalisation
- Mainly for skin rejuvenation
- Less downtime

Micro-ablative Thulium 1927nm



- Target to the junction between epidermis and dermis
- Coagulation and denaturalisation
- Suitable for all skin types
- Less downtime

Ablative C02 10,600nm



- Skin resurfacing and rejuvenation
- High risk, high return
- Prone to PIH
- Longer downtime than non-ablative

Why Our 1927nm Laser System Stands Out?

THE ERGONOMIC HEIGHT-ADJUSTABLE MULTI-SECTION BRACKET allows for easy and flexible treatments.



- Our specific platform is engineered with cutting-edge features for superior outcomes.
- Intelligent Scanning Technology: Ensures even, consistent, and overlapping coverage for uniform results.
- Adjustable Parameters: Allows clinicians to customise treatment depth and intensity for each patient’s unique needs.
- Integrated Safety Systems: Built-in safeguards ensure every pulse is delivered with consistent energy and precision.
- Ergonomic Design: For practitioner comfort and control, ensuring a perfect treatment every time.

Intelligent scanning uniformity

Excellent therapeutic effect

Integrated safety system

Precise energy output

Comfortable and less traumatic

Ergonomic and easy to control



Technical Parameter

1927nm Thulium Fiber Laser	
Wavelength	1927nm
Laser Power	15W
Beam Delivery	Optical fiber laser
Treatment Head	3 pieces
Pulse Width	0.1ms ~ 5.0ms
Spot Size	1*1mm ~ 20*20mm
Scan Mode	Order, Center or Random
Cooling System	Air Cooling
ARTG No.	526488
Scan Graphic	Rectangle, Triangle, Round, Hexagon

Before and After



ULTRANA
MEDICAL