

ExQ-LaserTM

Q-Switched Nd:YAG Laser Therapy Systems



Sincoheren

Introduction

ExQ-Laser™ is newly released Q-Switched Nd:YAG laser therapy system. The system has an optimal clinical treatment effect with following parameter designs: dual-wavelength switching of 1064nm & 532nm, pulse width short to 5ns and Energy output up to 1000mJ.

ExQ-Laser™ integrated with real-time energy monitor, energy auto-changing by adjustable handpiece, water filtration system, sufficiently guarantee the safety and efficiency during using. New UI designs focus on user experience, make the operation simpler and more convenient.

ExQ-Laser™ is safety and reliable with excellent performance, has successively achieved Certificates from CFDA , Medical CE and Australian TGA .Its unique designs also earn multiple global patents.

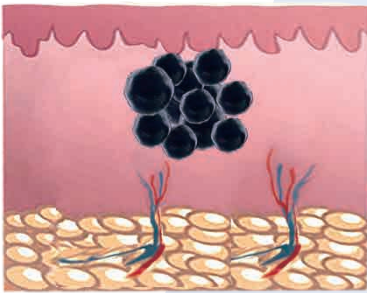


Correlation

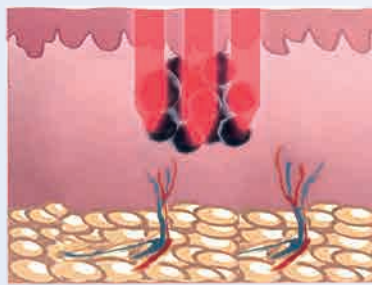
Principle of Treatment

Treatment principle for pigmented dermatosis of Q-Switched Nd:YAG Laser Therapy system lies in selective photothermolysis with melanin as the chromophore.

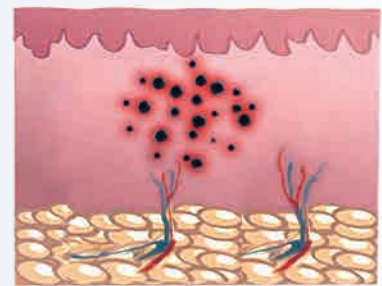
Q-Switched Nd:YAG has higher Peak power and nanoseconds-level pulse width. Melanin in melanophore and cuticle formed cells have a short hot relaxation time. It could immediately make small selectively energy absorbed granules (tattoo pigment and melanin) blast without injuring surrounded normal tissues. The blasted pigment granules will be excreted from body through circulatory system.



1. Melanin granules in skin

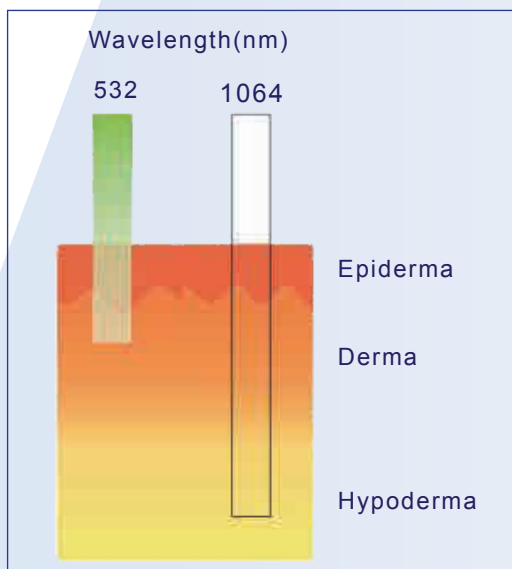


2. Melanin granules' absorbing laser energy



3. Instantaneously blasted of melanin granules

Depth of penetration in the Skin



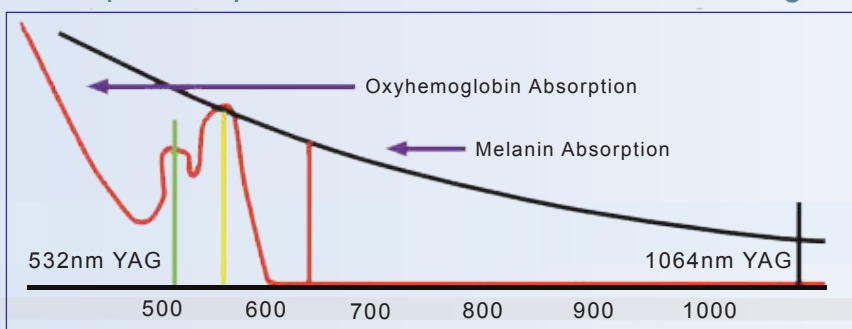
Clinical Indications:

- 1064nm nevus of ota, black and blue tattoo
- 532nm freckles, café-au-lait spots, red tattoo

Advanced Tattoo Removal

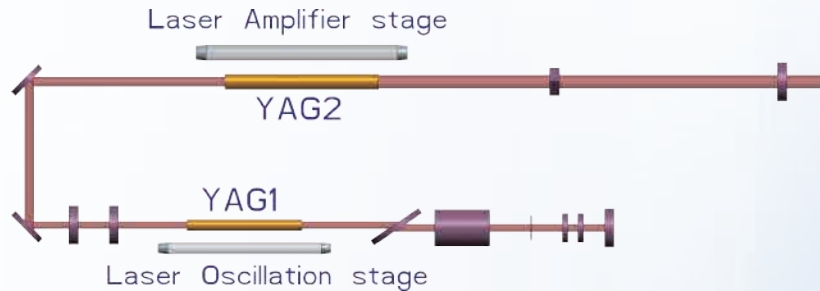
- 1064nm targets dark ink
- 532nm targets red

Absorption Spectrum for Melanin and Hemoglobin

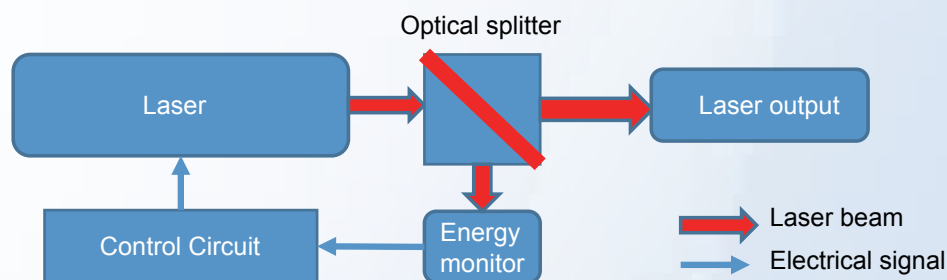


Prominent Advantages

- Two stages Nd:YAG laser system with electro-optic Q-Switched technology, which output higher energy. The designs adopt cavity optimized schedule, make the pulse width as short as 5ns, get doubled output power density under the same energy.



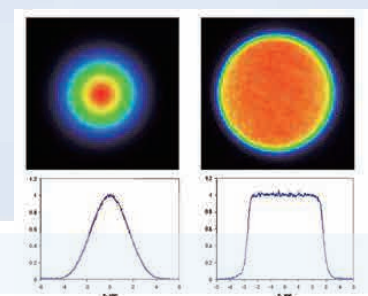
- Integrated laser energy monitor system inside, set warning signal when energy deviation over threshold, all to ensure treatment effectiveness and safety.



- Seven joints optical articulated arm with adjustable handpiece, spots size setting from 2 to 10mm. The energy synchronously changes following the setting spot size.



- Flat-top beam output, uniformly distributed spot energy without any heat point, Achieve better treatment effect and less injuries.



Clinical Cases



Before



After

Nevus of ota treatment

Wavelength : 1064nm

Fluence : 4.0J/cm²

Spot size : 4mm

Frequency : 3Hz



Before



After

Tattoo removal

Wavelength : 1064nm

Fluence : 4.0J/cm²

Spot size : 4mm

Frequency : 2Hz



Before



After

Freckles removal

Wavelength : 532nm

Fluence : 1.5J/cm²

Spot size : 2mm

Frequency : 2Hz



Before



After

café-au-lait spots treatment

Wavelength : 532nm

Fluence : 1.5J/cm²

Spot size : 2mm

Frequency : 2Hz

Statement

The technical parameters above are based on a large numbers of clinical practices. It is suggested that the surgeons adopt proper treatment parameters in according to real clinical situations.

Technical Parameters



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<http://www.jisupdfeditor.com/>

Laser type	Q-Switched Nd:YAG		High energy Q-Switched Nd:YAG	
Wavelength	1064nm	532nm	1064nm	532nm
Pulse width	5ns	5ns	8ns	8ns
Pulse energy	500mJ	200mJ	1000mJ	500mJ
Pulse energy Range	200~500mJ	100~200mJ	100~1000mJ	100~500mJ
Frequency	5Hz		5Hz	
Spot size	2~10mm adjustable		2~10mm adjustable	
Fluence	0.2~16J/cm ²	0.1~6.3J/cm ²	1.3~32J/cm ²	0.6~16J/cm ²
Aiming beam	635nm , <5mW			
Electrical requirements	110~240VAC 50-60Hz 1200VA			
Dimension	351mmx925mmx775mm (without optical articulated arm)			
Net weight	80Kg			

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