

Ex-Q Laser™

Q-SWITCHED ND: YAG LASER THERAPY SYSTEM

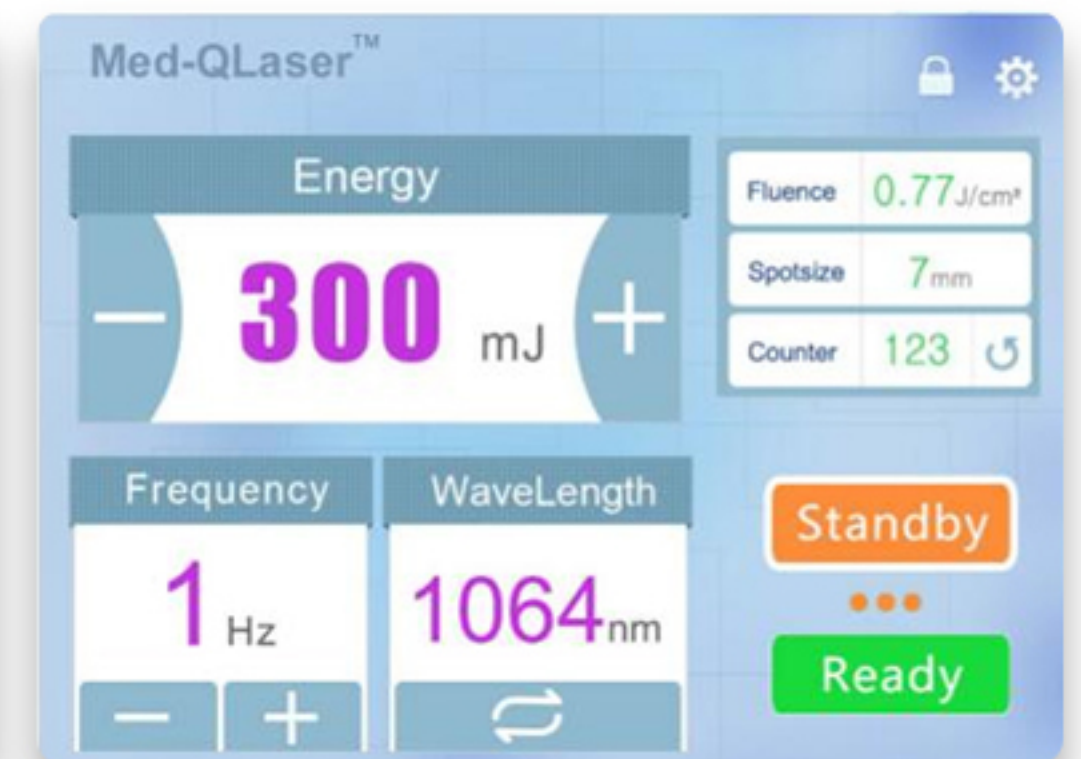
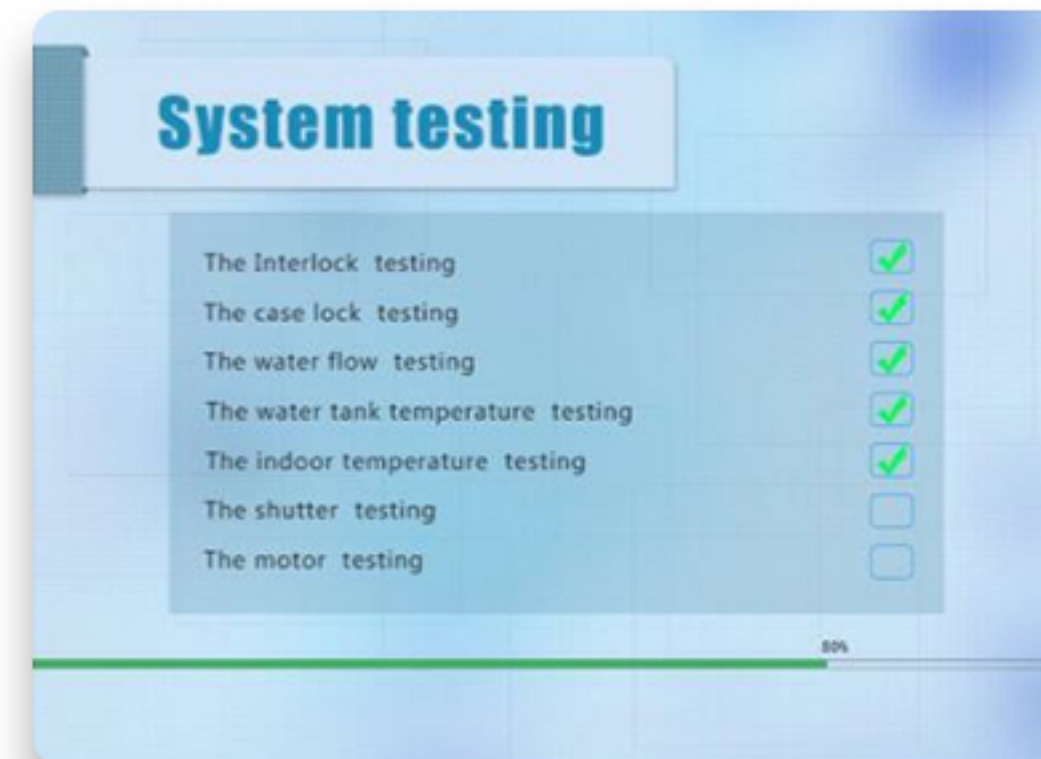
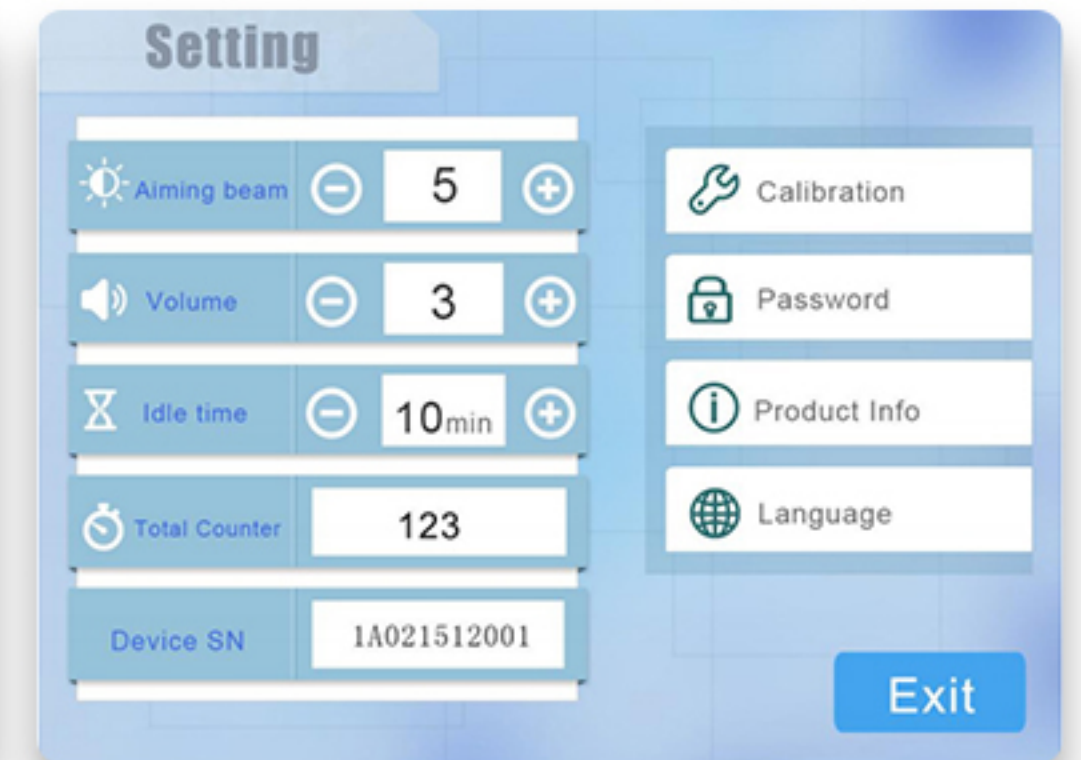
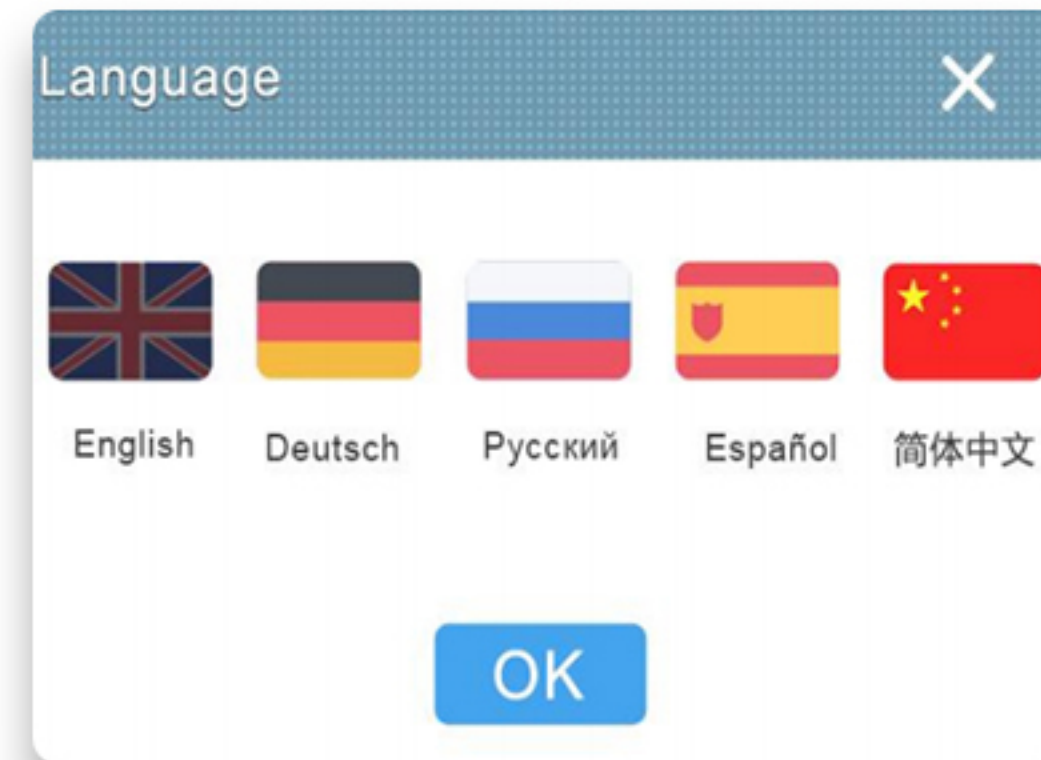


Product display

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.



INTERFACE



Principle

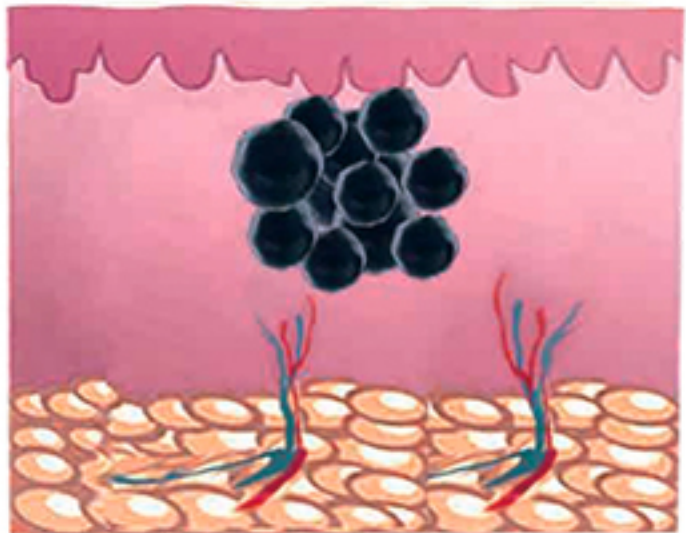
Treatment principle for pigmented dermatosis of Q-Switched Nd:YAG Laser

Therapy system lies in selective photothermolysis with melanin as the chromophore.

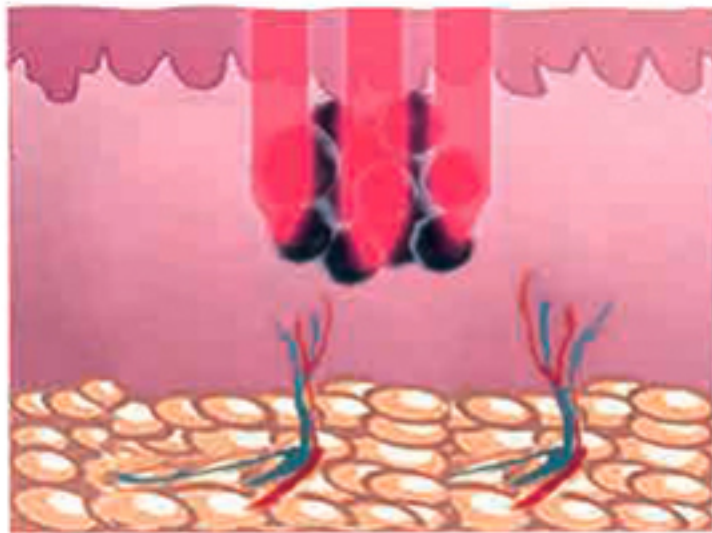
Q-Switched Nd:YAG has higher Peak power and nanoseconds-level pulse width.

Melanin in melanophore and cuticle formed cells have a short hot relaxation time.

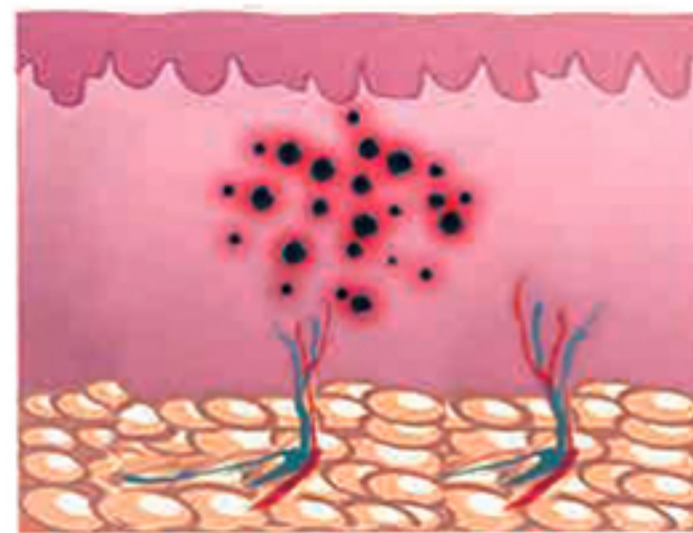
It could immediately make small selectively energy absorbed granules (tattoo pigment and melanin) blast without injuring surrounded normal tissues. The blasted pigment granules will be excreted from body through circulatory system.



1. Melanin granules in skin

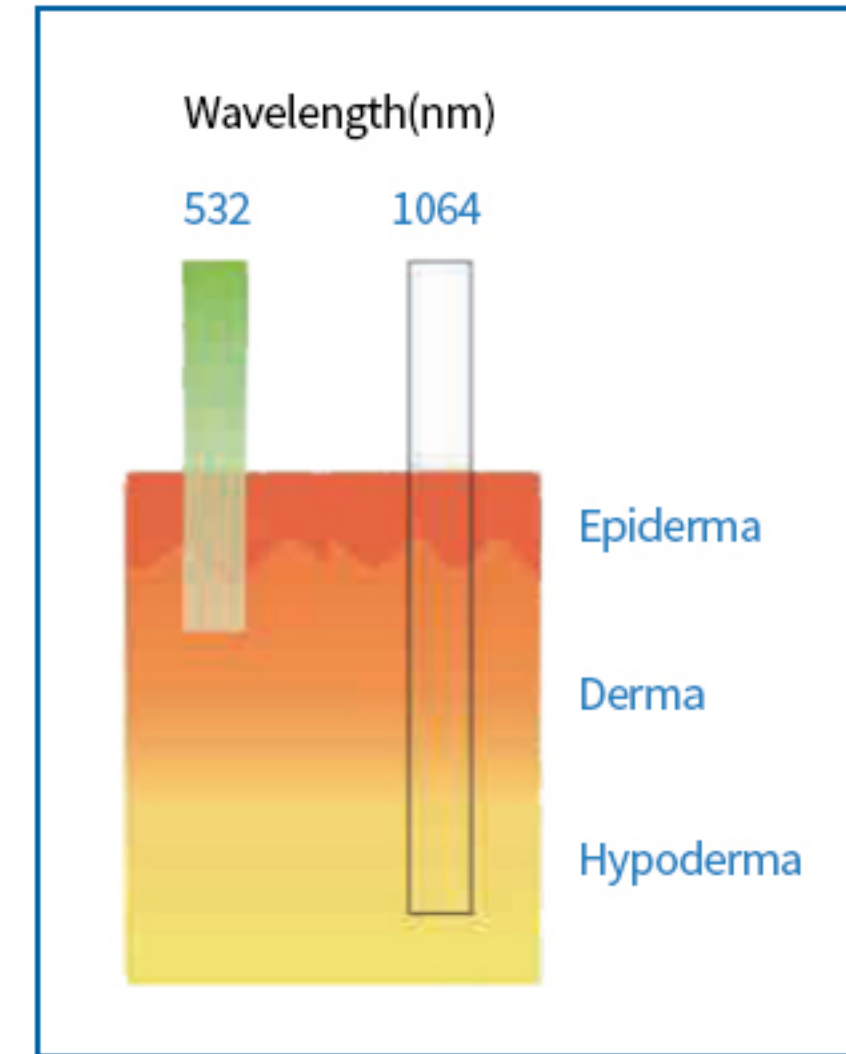


2. Melanin granules' absorbing laser energy



3. Instantaneously blasted of melanin granules

Depth of penetration in the Skin



Clinical Indications:

1064nm nevus of ota, black and blue tattoo

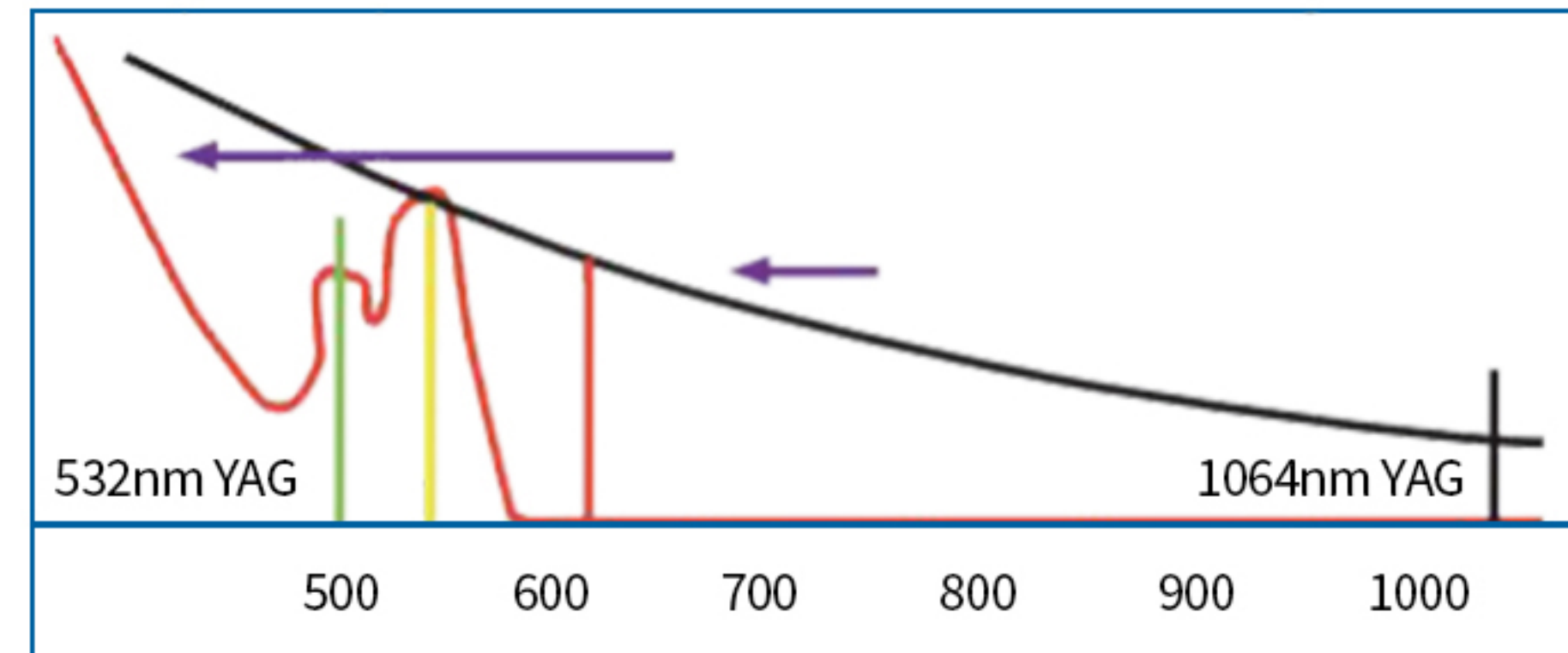
532nm freckles, café-au-lait spots, red tattoo

Advanced Tattoo Removal

1064nm targets darkink

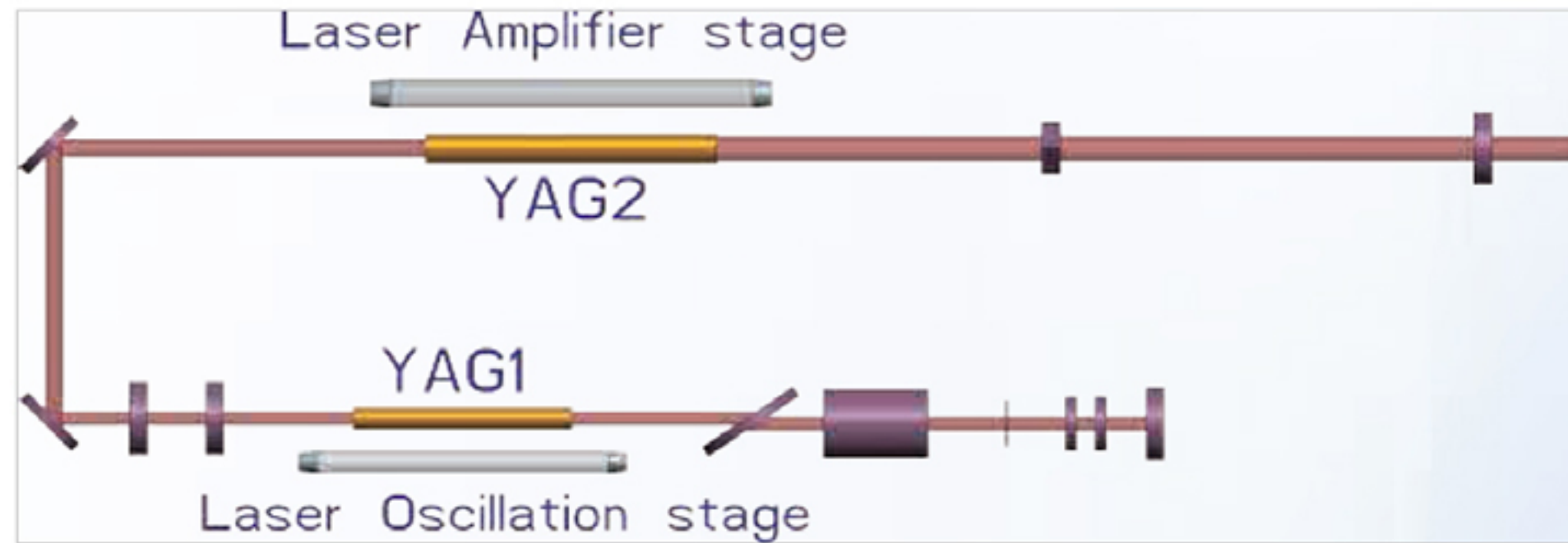
532nm targets red

Absorption Spectrum for Melanin and Hemoglobin



Advantage

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.



Technology:

Two Stages ND:YAG system (dual-yag rods and,dual-xenon lamp) with electro-optic Q-switched technology, which output higher energy.



Seven Jointed articulated arm:

TUV and FDA standards articulated arm for little laser transmission loss.



Auto-Detected Handpiece Spot size:

- Adjustable handpiece, spots size setting from 2 to 10mm.
- The energy synchronously changes following the setting spot size.

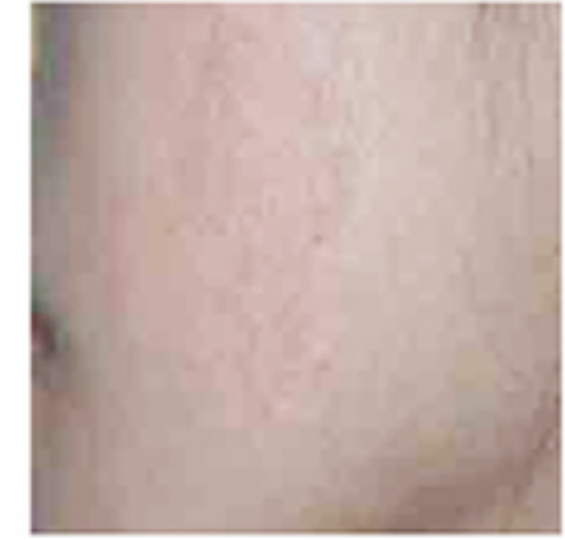
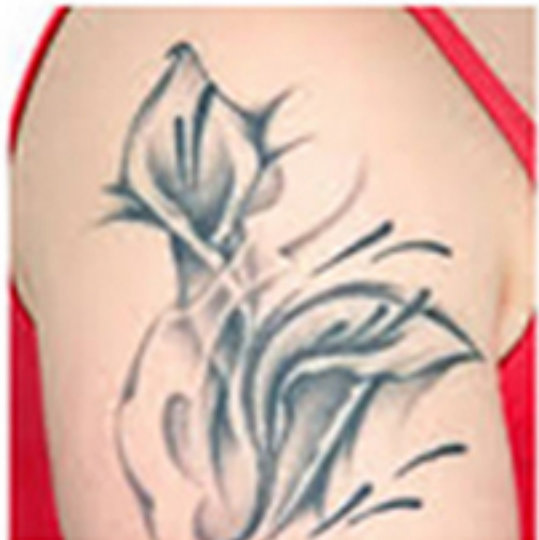


Application

FDA,TUV Medical CE,TGA approved
Q-Switched yag laser



Before and After

Before	After	Before	After
			
Nevus of ota treatment Wavelength: 1064nm Fluence: 4.0J/cm²		café-au-lait spots treatment Wavelength: 532nm Spot Fluence: 1.5J/cm²	
	Spot size: 4mm Frequency: 3Hz		size: 2mm Frequency: 2Hz
Before	After	Before	After
			
Tattoo removal Wavelength: 1064nm Spot Fluence: 4.0J/cm²		Freckles removal Wavelength: 532nm Fluence: 1.5J/cm²	
	size: 4mm Frequency: 2Hz		Spot size: 2mm Frequency: 2Hz

Specification

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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