

The Healing Power of Light

LUTRONIC®



SPECTRA™

The Perfect Aesthetic Solution



FDA CE  
0434



# Solution for the Success of a skin care clinic

## SPECTRA™ Nd:YAG Laser

The SPECTRA™ Q-switched Nd:YAG laser from Lutronic builds on the spectacular success of our award-winning Nd:YAG laser systems. This newest laser in our Nd:YAG series retains the robust reliability and versatility that clinicians have come to expect, in a lighter, more powerful, and user-friendly laser that requires little or no maintenance.

Designed to treat a large number of dermatological and aesthetic applications, the SPECTRA™ is capable of producing four wavelengths. The system photo-mechanically removes various pigmented lesions and all tattoo ink colors with ease.

The SPECTRA™ uses high intensity pulses of laser light to significantly lighten or completely remove pigments and tattoo particles without harming surrounding healthy cells. When melanosomes and tattoo particles absorb the laser light, they are broken into tiny fragments, which are absorbed through the body's natural drainage system.

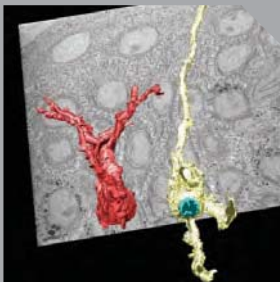
The versatile SPECTRA™ also performs the SPECTRA Laser Toning™ procedure. This non-ablative procedure consistently delivers impressive results for the treatment of melasma.

An additional operating mode, Spectra Mode™, delivers a quasi-long pulse of 300 microseconds, ideally suited for the newest application in non-ablative skin resurfacing, SPECTRA Peel™. In combination with a carbon-based lotion, Spectra Mode creates a photothermal effect in the skin and stimulates skin cell regeneration.

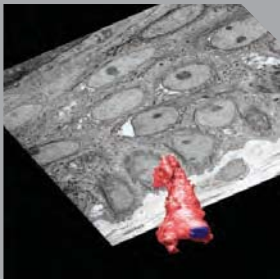
The consistent pulse-to-pulse stability in both traditional Q-switched modes and Spectra Mode™, makes the SPECTRA™ a superior laser for other cosmetic treatments as well, including non-ablative resurfacing to improve the appearance of acne scars, fine lines, and wrinkles.

Furthermore, SPECTRA™ has auto-calibration and self-restoration functions which constantly maintain its fluence within the ideal range.

### 3D Structure of Melanocyte in Melasma Patient



» Before



» After

Courtesy of I.H.Kim M.D., Dermatologist, South Korea

Dendrites of melanocytes were decreased in number after SPECTRA Laser Toning™



# S P E C T R A™

Dual Pulsed Q-switched Nd:YAG Laser

SPECTRA™ is equipped with essential technical advantages such as auto-calibration and self-restoration, a top-hat beam profile, short pulse duration and high peak power, zoom collimated handpiece, and other features, for any successful cosmetic laser practice.

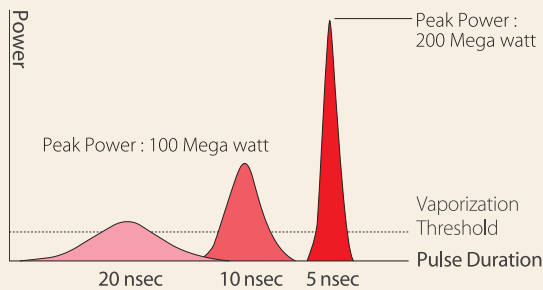
## Auto-Calibration & Self-Restoration

Fluence is always kept within the ideal range even without regular visits by an engineer

Auto-Calibration  
& Self-Restoration ▶



## High Peak Power & Shortest Pulse Width



\* The Shorter Pulse Duration, The Higher Peak Power  
(Minimized Thermal Damage)

## Adjustable Aiming Beam

The brightness of the 650 nm red diode aiming beam can be adjusted according to the lesion or skin color

## Easy Operation Environment

Laser toning buttons & user programmable memory buttons provide easy treatment settings for the most frequently used parameters

## User Friendly GUI Interface

Touch Screen ▶



## Auto-Detected Handpiece Spot Size

The handpiece spot size is automatically detected by the laser system

## Dual Pulsed Mode

Q-switched Mode: 5-7 nsec

Spectra Mode: 300 µsec

## 3-8 mm Zoom Collimated Handpiece

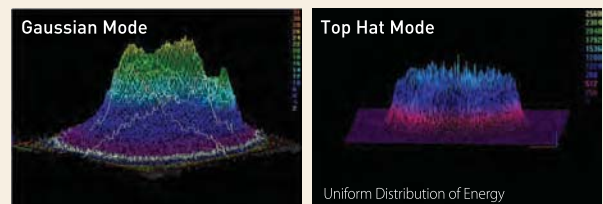
The 3-8 mm Zoom Collimated Handpiece is more convenient to use than a conventional zoom handpiece



## Top Hat Beam Profile

Guarantees uniform distribution of laser energy, thus preventing PIH or blister formation

### » Beam Profile



## Worldwide Recognition



NEW TREATMENT FOR MELASMA WITH THE COLLIMATED LOW FLUENCE Q-SWITCHED Nd:YAG LASER  
Se Yeong Jeong, Jae Bin Shin, Un Chul Yeo, Won Serk Kim, Il-Hwan Kim, Jae Hwan Kim Korea University, Ansan, Korea



SUBCELLULAR SELECTIVE PHOTOTHERMOLYSIS: AN ELECTRON MICROSCOPIC EVIDENCE IN MELASMA PATIENTS TREATED WITH COLLIMATED LOW FLUENCE Q-SWITCHED Nd:YAG  
Se Yeong Jeong, Jae Bin Shin, KI Woong Ro, Soo Hong Seo, Sang Wook Son, Il-Hwan Kim Seoul, Korea

» H.S. Lee, M.D.  
Dermatologist,  
Englewood,  
NJ, USA

“SPECTRA Peel™ is the latest non-ablative skin rejuvenation procedure providing the most effective treatment for enlarged pores.”

» Kevin Duplechain, M.D.  
Plastic Surgeon,  
Lafayette, LA, USA

“The SPECTRA™ is clearly the laser of choice for tattoo removal. I had a tattoo patient recently who had been treated a dozen or more times by everyone in a 2~3 state area. When she returned after the treatment we were both impressed with how much the deep stains of the tattoo had cleared. The SPECTRA™ is hands down the best when it comes to tattoo removal and pigmented skin lesions.”

» I.H. Kim, M.D.  
Dermatologist,  
South Korea

“SPECTRA Laser Toning™ is a new concept and proven modality for melasma treatment... treated skin cells decrease melanosomes and intracellular vacuolizations without skin cell death.”

Before After



PIH, Courtesy of I.H.Kim, M.D., South Korea



Melasma, Courtesy of I.H.Kim, M.D., South Korea



Large Pores, Courtesy of K.M.Lee M.D., South Korea



Inflammatory Acne, Courtesy of K.M.Lee M.D., South Korea



Tattoo, Courtesy of Kevin Duplechain, M.D., USA

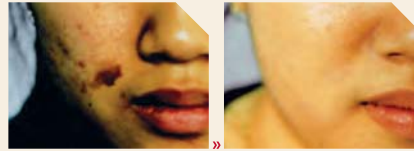
Before After



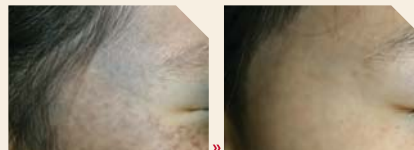
Melasma, Courtesy of J.S.Kang, M.D., South Korea



Seborrheic Keratosis, Courtesy of J.S.Kang, M.D., South Korea



Dyschromia, Courtesy of J.S.Kang, M.D., South Korea



Nevus of Ota, Courtesy of W.S.Kim M.D., South Korea



Tattoo, Courtesy of Kevin Duplechain M.D., USA



\* Above photo can be subject to change without further notice.

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**LUTRONIC**®



# SPECTRA™

Dual Pulsed Q-switched Nd:YAG Laser



## Features

- SPECTRA Peel™
- SPECTRA Soft Peel™
- SPECTRA Laser Toning™
- High Peak Power
- Uniform Beam Profile
- Dual Pulsed Mode
- Up to 4 Wavelengths
- LCD Touch Screen
- Auto-Calibration and Self-Restoration
- Laser Toning Button and User Programmable Memory Buttons
- Compact and Ergonomic Design
- Red Aiming Beam
- 3-8 mm Zoom Collimated Handpiece
- 585 nm / 650 nm Solid Dye Handpieces (Option)

\*The pictures in this page can be subject to change without further notice



# SPECTRA™

Dual Pulsed Q-switched Nd:YAG Laser

## System Specification

Laser Medium	Nd:YAG	
Wavelengths	1,064 nm / 532 nm (Option: 585 nm, 650 nm)	
Operating Mode	Q-Switched & Spectra Mode (Quasi-Long Pulse)	
Beam Profile	Top Hat Mode	
Pulse Energy	Spectra Mode	1,064 nm: 1,500 mJ
	Q-switched Mode	1,064 nm: 1,200 mJ , 532 nm: 400 mJ 585 nm: 250 mJ , 650 nm: 150 mJ
Energy Calibrating	External, Auto-Calibration & Self-Restoration	
Pulse Width	5 ns - 7 ns / 300 μs (Spectra Mode)	
Solid Dye Laser (Option)	585 nm: 7.5 J/cm <sup>2</sup> , 650 nm: 4.5 J/cm <sup>2</sup>	
Spot Size (Auto Sensing)	1,064 nm	3, 4, 5, 6, 7, 8 mm / 1, 2, 3, 4, 5, 6, 7 mm <sup>(Option)</sup>
	532 nm	2.6, 3.4, 4.3, 5.2, 6.0, 6.9 mm / 0.8, 1.7, 2.6, 3.4, 4.3, 5.2, 6.0 mm <sup>(Option)</sup>
	585 nm	2 mm
	650 nm	2 mm
Pulse Rate	1,064 nm	Single, 1, 2, 5, and 10 Hz
	532 nm	Single, 1, 2, 4, and 5 Hz
	585 nm	Single, 1, 2, 4, and 5 Hz
	650 nm	Single, 1, and 2 Hz
Memory	8 User Programmable Memory	
Optical Delivery	Articulated Arm	
Aiming Beam	Diode 655 nm (Red), 1 mW, Adjustable Brightness	
Cooling	Closed Circuit Water to Air	
Input Power	AC100 - 110 V / 25 A, AC 200 - 220 V / 15 A,	
	Single Phase, 50 / 60 Hz	

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