

# FAST, SAFE, VERSATILE

Q-Switched Nd:YAG Lasers  
Featuring PhotoAcoustic Engineering



## WORLD-CLASS LASER

HOYA ConBio pioneered a new generation of Q-switched laser technology with the original MedLite laser in 1992. The MedLite's PhotoAcoustic engineering revolutionized aesthetic medicine and provided physicians with a versatile, safe technology for a wide variety of skincare solutions.

Today's MedLite C6 laser features an advanced, contemporary version of that breakthrough technology. Best known as the gold standard treatment for multi-color tattoo removal, the MedLite C6 is an extremely versatile choice for aesthetic procedures – and is safe for all skin types.

MedLite C6 - the "workhorse" of the aesthetic laser industry.



- PhotoAcoustic engineering
- Flat-top beam profile
- Multiple wavelengths
  - Dual core wavelengths (1064 nm and 532 nm)
  - MultiLite Dye Handpieces provide 585 nm and 650 nm



- Safely treats all skin types
- Minimal patient discomfort
- No need for skin cooling
- No downtime
- Minimal to no adverse reactions
- Strong clinical history



- Multispot handpiece, variable spot sizes
- Extremely fast treatment times — up to 10 Hz
- User friendly
- Articulated arm for easy maneuverability
- Low maintenance, minimum consumables

## EFFICACY AND RELIABILITY



### Anti-Aging Maintenance

The MedLite C6 is a laser of choice for overall improvement in skin's appearance, texture, and tone. PhotoAcoustic technology massages the collagen fibers and stimulates collagen remodeling. Patients report a more refreshed appearance, reduction in fine lines, smoother skin texture, and a decrease in pore size.



A typical protocol involves 6-8 monthly treatments, with additional monthly or quarterly touch-ups to improve the overall rejuvenation effect. Results are ongoing and cumulative. The MedLite's anti-aging protocol features no downtime, no discomfort, and no messy gels.

Photos: Bruce Saal, MD, Los Gatos, CA

### Epidermal and Dermal Pigmented Lesions

MedLite C6 is ideal for treating a wide variety of pigmented lesions including: age spots, solar lentiginies, café-au-lait lesions, and dermal melanocytosis (including Nevus of Ota, aberrant Mongolian Spot). Recent studies have also shown MedLite C6 to be useful in managing melasma.\*



Photos: David H. McDaniel, M.D., Virginia

*\*\*Treatment of Refractory Dermal Melasma with the MedLite C6 Q-Switched Nd:YAG Laser – A Prospective Study, Niwat Polnikorn, MD, Kasemrad Aesthetics Center, Kasemrad Hospital Prachacheun, Bangkok 10800, Thailand*

## SEVERAL WAVELENGTHS...MULTIPLE APPLICATIONS

The MedLite C6 is FDA-Cleared for: Non-Ablative Skin Resurfacing (Including Wrinkles and Acne Scars) ■ Tattoo Removal (Multi-Colors) ■ Pigmented Lesion Treatment (Epidermal and Dermal) ■ Hair Removal ■ Vascular Lesions

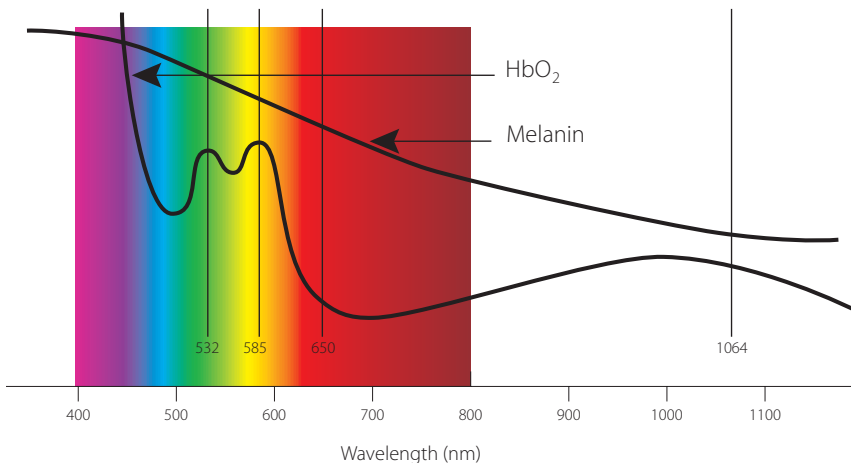
### PhotoAcoustic Engineering

The hallmark of PhotoAcoustic technology is high peak power and short pulse duration. When combined, this generates a photomechanical or PhotoAcoustic action against the target molecule, whether it's collagen, tattoo ink, or pigment.

At the heart of the technology is the Q-Switch. Acting as a high-speed shutter, the Q-Switch stores energy between pulses and enables the laser to produce peak power output of 200 megawatts in 5-20 nanosecond pulse widths. The MedLite C6 forces energy at such a high rate, the molecules vibrate and shatter, without any harm to the surrounding skin.

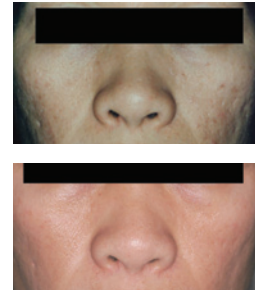
This PhotoAcoustic action is different from the traditional photothermal effect that many lasers use to target chromophores with bulk heat. PhotoAcoustic "shockwaves" cause a subtle wound response that induces ongoing dermal/collagen remodeling.

The flat-top beam of the MedLite delivers the energy evenly over the skin's surface – with no hot spots or spikes – minimizing any damage to the epidermis.



*Absorption Spectrum for Melanin and Hemoglobin*

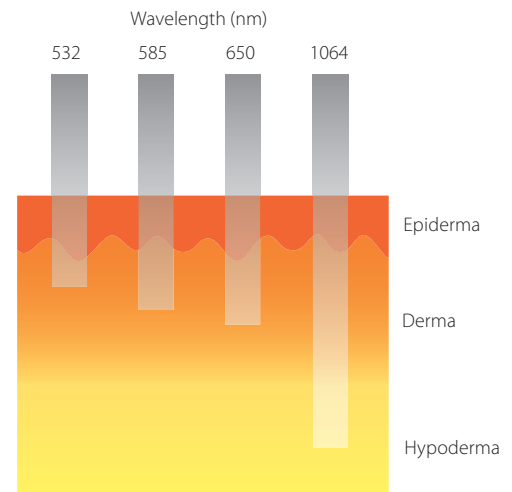
### Non-Ablative Skin Resurfacing (Wrinkle/Acne Scar Reduction)



Photos: Bruce Saal, MD, Los Gatos, CA

The Q-switched 1064 nm wavelength of the MedLite C6 works to reduce wrinkles and acne scars with no downtime or discomfort. Just four to six treatments spaced two or three weeks apart will reduce acne scars and fine lines, while decreasing pore size

and improving the overall appearance of the skin. Ideal for patients who maintain a busy lifestyle and can't opt for the long downtime associated with ablative procedures.



*Depth of Penetration in the Skin*



### Advanced Tattoo Removal

Recognized as the industry's gold standard for tattoo removal, the MedLite offers four wavelengths to target even stubborn multi-color tattoos. The 1064 nm and 532 nm treat red and dark ink tattoos including black, dark blue, brown, and purple. The additional wavelengths (585 nm and 650 nm) with the MultiLite Dye Handpieces treat more challenging colors including sky blue and green. The PhotoAcoustic waves of energy effectively shatter the tattoo ink into particle fragments that are gradually removed by the body's natural process. The MedLite removes tattoos with minimal risk of scarring or skin pigment changes.



Photos: Lauren Chavez, M.D., Albuquerque, NM

### Hair Removal

The PhotoAcoustic action of the MedLite can safely target the hair follicle without harming the surrounding skin, regardless of skin color. MedLite is especially effective on fine, dark, facial vellus hair.



Photos: Jerome Garden, M.D., Chicago, IL

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## SPECIFICATIONS

### MedLite® C6

#### Laser Parameters

Laser Medium Nd:YAG & Dye Impregnated Polymers  
 Operating Parameters Q-Switched, Frequency Doubled

Nominal Delivered Energy at end of Articulated Arm with no Handpiece

1064 nm 1.0 Joule  
 532 nm 400 mJ

#### Converted Wavelengths

585 nm 250 mJ  
 650 nm 150 mJ

#### Maximum Pulse Energy Density at:

1064 nm 12.0 J/cm<sup>2</sup> @ 3.0 mm spot size  
 532 nm 5.0 J/cm<sup>2</sup> @ 3.0 mm spot size  
 585 nm 8.0 J/cm<sup>2</sup> @ 2.0 mm spot size  
 650 nm 4.5 J/cm<sup>2</sup> @ 2.0 mm spot size  
 Pulse Width 5–20 ns  
 Treatment Repetition Rate single shot, 1,2,5 and 10 pulses per second (Hertz)

#### Aiming Beam

650 nm, <1 mw 3 intensity levels

#### Spot Sizes

1064 nm 3, 4, 6 & 8 mm  
 532 nm 2, 3, 4 & 6 mm  
 585 nm 2 & 3 mm  
 650 nm 2 & 3 mm

#### Physical Parameters

Input Power 220 V, Single Phase, 8 Amps or 110 V, Single Phase, 15 Amps  
 Weight 58 kg  
 Size 72.5 cm depth  
 30.5 cm width  
 81 cm height without articulated arm  
 113 cm height with articulated arm  
 Beam Delivery articulated arm  
 Cooling closed cycle water to air heat exchanger

## About HOYA ConBio

About HOYA ConBio: HOYA ConBio designs, manufactures, and markets sophisticated laser systems used in dental and aesthetic medical practices worldwide, widely recognized by practitioners as "The World's Most Reliable Lasers™". The company's innovative technologies are highly versatile, clinically effective, and offer rapid return on investment. Headquartered in Fremont, CA, HOYA ConBio maintains a worldwide product and service distribution network. For more information, call 800-532-1064 or visit www.conbio.com.

Our laser team is constantly looking for new applications for the MedLite® laser. Copyright 2009 HOYA ConBio. All Rights Reserved.

## OPTIONAL MEDLITE FEATURES



### MultiLite™ Dye Handpieces

Dye-impregnated polymer rods convert the 532 nm wavelength to either 585 nm (yellow) or 650 nm (red). The MultiLite handpieces extend the versatility of the core MedLite laser from 2 wavelengths to 4 wavelengths.



### PurpuraLite™

This exclusive chromophore-clearing device minimizes purpura that typically results from certain aesthetic laser treatments. Gently press the spoon-shaped tool against the treatment area and the PurpuraLite temporarily "empties" the fine blood vessels, eliminating the red chromophore that could potentially trigger a purpuric response.



### AimLite

This specially designed aiming beam helps guide treatment, ensuring accuracy and helping the physician define treatment parameters.

