

# Dye-PL Handpieces Narrow the Spectrum for Greater Precision



Ziv Karni, Ph.D.  
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Neck before Tx



Neck after Dye-VL Tx

Photos courtesy of Moshe Lapidath, M.D., M.P.H.

By Janine Ferguson, Contributing Editor

Alma Lasers (Caesarea, Israel), a global leader in laser, light-based and radiofrequency (RF) technology has expanded their portfolio with the introduction of the Dye-PL series. Introduced to the market several months ago, this new series of narrow band spectrum, pulsed-light, handpieces features the next-generation of patented Advanced Fluorescence Technology (AFT), and is currently in use and available for treatments to the body, face and neck.

AFT is an advanced type of intense pulsed light (IPL) that uses an equally distributed fluence to deliver optimal energy to the precise treatment location, and enables continuous square-shaped pulsing with moderate peak power throughout the entire pulse, delivering efficacious, reliable results to patients seeking skin rejuvenation and remedies for most pigmentation issues.

Developed for use with the Alma Harmony<sup>XL</sup> and Harmony<sup>LITE</sup>\* platforms, the first two Dye-PL modules are the Dye-VL and the Dye-SR. The Dye-VL treats vascular and pigmented lesions including port-wine stains, facial telangiectasia, rosacea, photodamaged and photo-aged skin, and other stubborn pigmentation. Employing a 500 to 600 nm wavelength, energy is delivered directly to the blood vessels, closing them off and removing the appearance of small veins.

The Dye-SR handpiece is used for skin rejuvenation, allowing only a 550 to 650 nm wavelength to reach the skin. Energy is absorbed by melanin at the 570 nm peak. By not being

absorbed at 540 nm, the Dye-SR rejuvenates the skin with minimal effects on skin color.

Using filters that concentrate the light, the Dye-PL handpieces provide optimum results without exposing the skin to wavelengths that may lead to adverse effects. This AFT two-step filtering process first converts unused ultraviolet (UV) light into visible wavelengths, followed by use of the additional light to enhance treatment efficacy. This results in visible clinical improvement while protecting the epidermis.

According to Alma CEO and founder Ziv Karni, Ph.D., this enhanced power, combined with the correct thermo-relaxation time, makes the Dye-PL a true competitor to laser treatments. Dr. Karni also noted, “The pulsed dye laser was one of the first technologies introduced for use in aesthetic medicine and is still considered the laser of choice for skin conditions such as port-wine stains. Unfortunately, the pulsed dye laser is extremely cost-prohibitive and high-maintenance. However, the Dye-PL takes the principle behind pulsed dye technology and provides a reliable, cost-effective treatment solution to both the physician and patient.”

Additionally, the Dye-PL is convenient because there are no disposables involved for use or maintenance. As an easy to use, effective, versatile and reliable device, the Dye-PL is indicated for use with most skin types and can be used year round with virtually no pain or downtime for the patient.

\*Harmony<sup>LITE</sup> is not available for sale in the U.S.