



# Multi-platform Laser is More Than the Sum of Its Parts



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The Hollywood Spectra (Lutronic Corp.) is not just another multifunction aesthetic platform but is a technological upgrade of the classic Spectra. Hollywood Spectra's advanced nanosecond-based laser platform can perform short pulse widths with higher peak power, as well as an array of other advanced capabilities. It addresses a wide range of dermatological issues, including acne scars, melasma and other pigmentary concerns, including color tattoo removal, skin brightening and skin tone enhancement. It also offers the Hollywood Laser Peel, known as carbon laser peel treatment, which was extremely popular on the original Spectra system.

The versatile Q-switched Nd:Yag laser is accompanied by a proprietary HyperSurge resonator that can reach higher peak power than other nanosecond-based lasers, enabling it to deliver high intensity pulses. HyperSurge technology is "very pico-like, as it can cause an intense photo-acoustic effect on the skin," said Lutronic's Chief Technology Officer James Bartholomeusz. "However, when you use HyperSurge, the energy is not distributed evenly. So, we developed Intellibeam, a 'homogenizing' technology that smooths out the energy delivery. The combination of HyperSurge and Intellibeam provides an extra photo-acoustic picosecond-like effect on the tissue. When treating tough ink or pigment in darker skin types, it makes a tremendous difference."

Intellibeam technology works in tandem to help control the high intensity energy, resulting in improved beam profile and stabilized beam delivery. The exclusive PTP+, or Q-PTP mode, unique to Hollywood Spectra, delivers laser energy in four successive pulses, ideal for treating sensitive skin and melasma.

These powerful combinations of features help minimize the risk of side effects, such as hypopigmentation and the recurrence of melasma. Besides the 1064 nm / 532 nm dual wavelengths, the optional dye handpieces allow the transformation of the emitted light / filter into two additional wavelengths of 585 nm and 650 nm, which can reduce unwanted pigmentation, including multi-colored tattoo ink. The unit's 300-microsecond Spectra mode supports laser carbon peel and photo rejuvenation treatments.

The Hollywood Spectra advances the use of nanosecond laser technology in the medical aesthetics field. When asked his opinion on the Hollywood Spectra, Omar Ibrahim, M.D., Ph.D., the founding and medical director of the Connecticut Skin Institute, stated, "The Hollywood Spectra platform provides leadership

performance in reducing unwanted pigment and stimulating collagen with best-in-class laser toning. With peak power comparable to pico systems but with much lower operating costs, Spectra is a reliable and versatile workhorse laser that we use every day. And the Hollywood Laser Peel is a fast and popular no downtime treatment for many patients seeking the red-carpet look.”

When asked why he developed the Hollywood Spectra, Bartholomeusz said, “It was frustrating to see that no one has bothered to innovate in the nanosecond space. Companies just made a bold assumption that it was best to go into the picosecond market, which is a very engineering-based decision and not based on what is best for practitioners. Instead, we looked at what our customers wanted and the price they were willing to pay. Almost all of them can’t afford a \$300,000 picosecond laser, but they wanted some features and capabilities of a pico. We set out to give them what they wanted using nanosecond technology, which is less expensive but more reliable because there are inherent limitations with picosecond technology.”

While considering Hollywood Spectra’s support for fractional, non-thermal photo-acoustic skin revitalization, Mr. Bartholomeusz noted that he “brought technology that was exclusive to picosecond lasers into the high peak-powered nanosecond laser world. Practitioners could now perform picosecond laser-type skin revitalization without having to pay for the high cost of a picosecond laser. The fractional lens we added to the Hollywood Spectra is going to be a huge advantage for our customers.”

One of Hollywood Spectra’s major technological differentiators is the system’s quad pulse mode, or PTP+. “Our customers told us they love Spectra’s laser toning treatment, but it took a lot of sessions,” expressed Bartholomeusz. “They were limited to how much energy they could deliver, and often they had to stop the treatment because some patients reacted very quickly and negatively to the laser energy. With Hollywood Spectra, that’s where PTP+ comes in. When doing laser toning treatments, they can switch to PTP+ mode, where the laser breaks up the single beam spike into four different spikes. We take that energy and dropped it down, so it’s even more gentle on the skin.”

Furthermore, he said, “Dermal pigmentation can be cleared by the repetitive pulses of low threshold laser energy. When you hit the pigment enough times, the melanocytes just give up. The goal here is to be incredibly gentle on the pigment. You’re still going to deliver a lot of energy, but gently and without inflammation. The longer you can irradiate the dermal pigment of melasma, say, the longer you can just keep hitting it with gentle energy, the better the result will be.”

“We control all the new technology via Hollywood Spectra handpieces and system software,” Mr. Bartholomeusz continued. “On the software side, you now choose between those various pulse modes. And for our existing Spectra customer base, which is significant, we’ve carried the same Spectra mode forward into Hollywood Spectra. This is the heating mode you use for the laser carbon peel, which heats the carbon.”

All Hollywood Spectra's technology upgrades came in response to provider needs, he added. "Our target market is our own customers, and we've come up with a pretty good reason for them to switch to the Hollywood Spectra. Also, I expect to see new customers adopt this platform. Those who have already switched see the difference, not only in terms of the new features but also in improved patient outcomes. For example, practitioners that use the new system primarily for tattoos have validated that they think that the Hollywood Spectra is about 20% to 30% faster at clearing tattoos than the regular Spectra. With melasma, we see a reduced risk in refractory pigmentation, especially when treating hypersensitive patients. They are the real tricky ones that are the bane of every practice. I've heard from customers that tell us that the new, gentler treatment modes have allowed them to treat skin types very successfully."

Disclaimer: Hollywood Spectra is registered in many countries/regions. Approved indications/accessories may vary. Please contact your local representative for specific information.

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