

# PSP

## PLASTIC SURGERY PRODUCTS

SOLUTIONS FOR YOUR PRACTICE

JANUARY 2006

# Man of the House

A state-of-the-art plastic surgery practice in a restored historic residence

*John LoMonaco, M.D.  
Plastic Surgery*

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MD, PhD, DSc  
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## FriendlyLight Laser

The LightPod™ 1064-nm laser by FriendlyLight Laser, a member of the LightPod product family, features MicroPulse™ technology. The laser packs the energy needed for treatments with submillisecond pulse durations, less than tissue thermal relaxation times, eliminating the need for continuous skin cooling and direct skin contact. The laser treats a wide range of aesthetic procedures, including pain-free removal of hair and pseudofolliculitis barbae on all skin types; photofacials with skin tightening; and removal of vascular lesions. The LightPod is compact, portable, easy to operate, and maintenance-free.



For additional information, contact FriendlyLight Laser Corp, 777 Old Saw Mill River Rd, Suite 205, Tarrytown, NY 10591; (914) 345-8300; [www.friendlylight.net](http://www.friendlylight.net).

## Reliant Technologies

The Fraxel® Laser by Reliant Technologies is a nonablative skin-resurfacing system that requires virtually no downtime. With each treatment, the Fraxel provides rapid cellular wound healing to repair the effects of aging and sun damage and to stimulate new collagen production. The system may be used for skin-resurfacing procedures, correction of pigmented lesions and periorbital wrinkles, treatment of melasma, and coagulation of soft tissue.

For additional information, contact Reliant Technologies Inc, 260 Sheridan Ave, Third Floor, Palo Alto, CA 94306; (650) 853-1459; [www.reliant-tech.com](http://www.reliant-tech.com).



## Candela

Candela introduces a pulsed-dye laser platform that is available in three models: the Aesthetica, the Platinum, and the Perfecta (shown). Plastic surgeons can choose from these configurations to treat patients who seek skin rejuvenation; the removal of brown sun spots, leg and facial veins, and facial redness; and treatment of rosacea.

The lasers can be customized and are fully upgradable. The Aesthetica laser removes vascular (red) and pigmented (brown) spots on the skin; the Platinum treats vascular lesions; and the Perfecta treats vascular and pigmented lesions. Candela's new "Micro-Pulse" design eliminates bruising and, therefore, downtime.

For more information, contact Candela Corp, 530 Boston Post Rd, Wayland, MA 01778; (800) 733-8550; [www.candelalaser.com](http://www.candelalaser.com).



## Cutera

Cutera offers Titan™, a light-based technology for collagen contraction. Titan heats the dermis using a safe IR light source with a unique wavelength-filtering design. The noninvasive Titan procedure protects the epidermis through continuous contact cooling, while the infrared light heats the deep dermis to denature and contract. Titan does not require single-use disposables or pain medication.

For additional information, contact Cutera, 3240 Bayshore Blvd, Brisbane, CA 94005; (415) 657-5500; [www.cutera.com](http://www.cutera.com).



## Palomar Medical Technologies

The StarLux™ pulsed-light and laser systems by Palomar Medical Technologies feature increased fluences on handpieces that filter light in the optimal spectral bands for specific treatments, allowing users to offer multiple applications with a single StarLux console.

The LuxG™ handpiece features increased fluence at its shorter pulse durations and delivers an enhanced effect for treating very small vessels, such as rosacea and port-wine stains. Other handpieces with enhanced fluences include the LuxY for pigmented lesion clearance and hair removal, and the LuxR™ and LuxRs™ for permanent hair reduction on all skin types.

For additional information, contact Palomar Medical Technologies, 82 Cambridge St, Burlington, MA 01803; (800) PALOMAR; [www.palomarmedical.com](http://www.palomarmedical.com).



## USA Photonics

USA Photonics' ChromoTest helps determine a patient's skin type for light-based hair-removal treatments. The ChromoTest makes it possible to exclude patients who are not suitable for treatment and evaluates the skin before embarking on a series of treatments.

The system is safe to use with Nd:YAG, diode, alexandrite, and intense pulsed-light lasers.

For additional information, contact USA Photonics Inc, 169 Main St, Nyack, NY 10960; (845) 348-4900; [www.usaphotonics.biz](http://www.usaphotonics.biz).





Gregory Altshuler, PhD

**G**regory Altshuler, PhD, joined Palomar Medical Technologies Inc (Burlington, Mass) in 1996, and is now vice president of research. Before he joined Palomar, Altshuler was chair of the Department of Quantum Electronics and Biomedical Optics at the St Petersburg (Russia) Institute of Fine Mechanics and Optics. He also served as vice president of research and development for Laser Medical System GmbH (Vienna) and general manager of the Laser Center of St Petersburg.

He is the author of 140 papers and owner of 50 patents.

Palomar will soon introduce the LuxIR Fractional™ Infrared Handpiece, an attachment for the Palomar StarLux™ Pulsed-Light and Laser System. We talked to Altshuler about this new technology.

### What does the LuxIR Handpiece do?

It delivers deep heating. The LuxIR is powered by a noncoherent light source, which produces light pulses in the 825–1800-nm range of the electromagnetic spectrum. This range allows deep penetration of light into the dermis and hypodermis.

### What is the benefit of this technology?

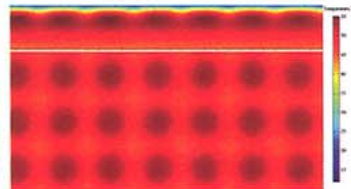
Deep heating can provide relief of muscle and joint pain, such as from arthritis. This technology has also been shown to trigger a biological response that leads to “remodeling” of the deep dermis. This structural change can smooth out fine wrinkles and minor sagging. So far, we have US Food and Drug Administration (FDA) clearance for deep heating with the LuxIR Fractional, and we are also seeking clearance for skin tightening.

### What does “fractional” refer to?

“Fractional” means that the handpiece delivers light as a regular array of small beams, with contact cooling. As a result, it creates a periodic lattice of isolated hyperthermic islets, ranging from 1.5 to 3 mm in diameter, inside the deep dermis.

### How is this different from previous methods of deep heating?

The illustration shows a model of skin-temperature distribution in vertical and horizontal cross-sections. The fractional method with isolated islets delivers a much safer method of treatment because overheated islets do not cause bulk damage to the surrounding tissue. In addition, the intact tissue surrounding the islets provides a quicker remodeling process.



### How do you ensure skin safety during the delivery of deep-heat pulses?

The LuxIR uses three-stage contact cooling. The tip of the handpiece is constantly in contact with the skin, and it cools the skin before, during, and after every single light pulse. A patent on this technology is pending, and we are very pleased with its development.

### Are there other uses for fractional technology in addition to skin tightening?

Fractional technology is a major advance because it permits faster healing times and safer treatments. We are still learning more about its uses in our clinical trials. It could be a great application for several different StarLux handpieces, so we are looking very closely at it. **PSP**

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