



SPOTLIGHT ON LASERS

LASER TECHNOLOGIES HAVE GIVEN THE AESTHETICS INDUSTRY EVERYTHING FROM SKIN REJUVENATION TO TATTOO REMOVAL AND LONG-LASTING DEPILATION. THE LATEST PRODUCTS FROM **DEVICE CONSULTING** ARE RIGHT ON TREND. JENNI GILBERT REPORTS.

As a leading medical technology provider, Device Consulting specialises in supporting professionals in the field of cosmetic laser and pulsed light systems. They are proud to represent and support a number of the world's top developers and manufacturers of leading edge systems for use in medical and aesthetic procedures.

These technologies, together with their broader range and more than 10 years' experience, enables Device Consulting to deliver the most appropriate and effective laser systems for both doctors and patients. Their commitment is to provide tailored, professional continuity covering clinical application, technical support and marketing opportunities. They offer uncompromised quality and integrity and are dedicated to providing successful outcomes.

REVLITE REVOLUTION

One laser for some of the most problematic skin conditions – for all skin types. RevLite is a revolutionary aesthetic medical laser that is FDA-cleared for tattoo removal, non-ablative skin resurfacing (including wrinkle and acne scar reduction), treatment of epidermal and dermal pigmented lesions, fine hair removal, and treatment of vascular lesions.

Featuring PhotoAcoustic Technology Pulse (PTP), the RevLite EO Q-Switched Nd:YAG – dubbed the RevLite Revolution – offers effective treatment of even large spot sizes, with superior patient comfort.

With four different wavelengths (1064nm, 650nm, 585nm, 532nm), RevLite can treat all suitable candidates despite skin type.

The hallmark of the PTP technology is high peak power and short pulse duration. This generates a PhotoAcoustic action against the target molecule – whether it's collagen, tattoo ink or pigment. Applications include:



The RevLite's easy-to-use interface

RevLite Laser Facial

RevLite Laser Facial uses infrared pulses at 1064nm. Unlike the Ruby or Alexandrite lasers, which is well-absorbed by melanin pigment in the hair and skin and only safe to use on lighter skin tones, the RevLite is a PhotoAcoustic laser that can safely and effectively treat all skin types of colours. This provides an ideal solution for year-round treatment and enables practices to maintain a healthy client base throughout the summer.

As well as skin rejuvenation, the RevLite Laser Facial is frequently used to treat acne scarring, melasma and freckling. 'In my experience, downtime is minimal and there is no scabbing or weeping,' says Geelong plastic surgeon Dr Niamh Corduff. 'It also leaves the skin well toned.'

RevLite Laser Peel

Using the 532nm wavelength, the RevLite Laser Peel allows for an ideal light-based peel. Best suited for lighter Fitzpatrick skin types (I and II), it helps to minimise pore size, even out skin tone, and reduce fine lines and wrinkles. Light pigmentation can also be treated. One or two sessions are recommended but good results can be attained with one treatment.

'One of the things I find most exciting about this wavelength is its ability to treat freckles,' says Adelaide plastic surgeon Dr Tony Moore. 'It can really turn people's lives around.'

The 'RevLite Revolution' can treat melasma, post-inflammatory hyperpigmentation, scars, hemosiderin staining as well as remove tattoos – all from the one convenient platform.

'RevLite and its previous versions (Medlite C6) have been used for many years for tattoo removal and, more recently, for its skin rejuvenation abilities,' says Dr Gavin Chan of the Victorian Cosmetic Institute. 'We use it a lot for the treatment of pigmentation. I find it is an excellent laser for this indication.'

GEMINI DUAL WAVELENGTH LASER SYSTEM

With two distinct laser wavelengths in the same system, the Gemini supports over 25 of today's fastest growing cosmetic applications, including skin rejuvenation and tightening, acne, wrinkles, vascular lesions, diffuse redness, age spots and unwanted hair.

It combines the most powerful 532nm KTP 'green laser' ever developed and the safety of 1064nm Nd:YAG with integrated contact cooling. Together they provide unparalleled speed, efficacy and versatility for performing



The Gemini Dual Wavelength Laser System

the majority of today's most common aesthetic laser procedures. 'It can treat almost any vascular condition on the skin, including broken capillaries, leg veins, port wine stains and poikiloderma,' says Dr Gavin Chan. 'It is the primary vascular laser we use in our practice.'

LIGHTSHEER DUET

This is a versatile laser especially created to permanently reduce unwanted dark hair on any skin type, virtually pain free. 'Previously full leg hair removal would be separated into two separate sessions for between 60-90 minutes,' says Associate Professor Greg Goodman of the Dermatology Institute of Victoria. 'Now with the larger handpiece it takes approximately 30 minutes.'



The Lightsheer Duet



THE REVLITE REVOLUTION

THE REVLITE EO Q-SWITCHED ND:YAG LASER SYSTEM CAN TREAT A VARIETY OF SKIN AND BEAUTY CONCERNS – ALL FROM THE ONE PLATFORM.

Aesthetic treatments with RevLite are patient-friendly and typically require no downtime, epidermal cooling or messy gels. Its multiple wavelengths make it ideal for applications such:

Tattoo Removal

The search engine Ask.com reveals that tattoos and tattoo removal have been the number 1 searched beauty term since 2003. Most people seeking tattoo removal are women between the ages of 23-45.

The RevLite is FDA approved for tattoo removal and harnesses high peak power to gently shatter the tattoo ink particles, which are gradually removed by the body's natural processes.

RevLite's four wavelengths (1064, 532, 585 and 650nm) can treat Fitzpatrick skin types I-VI with low incidence of scarring or pigmentation changes. When performed correctly, 100 percent of the majority of colours can be completely removed.

Pigmented lesions

Suitable for all skin types, most pigment irregularities, including brown 'age' spots and melasma, can be removed quickly and with little to no risk of hypopigmentation.

Acne scars

The non-ablative skin resurfacing benefits of the RevLite are ideal for the treatment of acne scars, providing immediate and long-term benefits.

Clinical studies show that Q-switched Nd:YAG treatment of mild to moderate atrophic acne scars showed a significant improvement in skin smoothness of 23 percent after one treatment, increasing to 39.2 percent six months later.

Patients can typically see visible improvement in around five sessions.

REVLITE LASER SYSTEM

The RevLite laser system is a one-stop-shop when it comes to facial rejuvenation, tattoo removal, hair reduction and birthmark treatment. It uses multiple wavelengths to customise treatments for each patient.

The system's unique Q-switch emits short pulses of energy to transfer powerful levels of energy in short bursts, helping to prevent over-heating in the skin. By delivering maximum power in short timespans, it acts like an aggressive laser without any deep damage.

'The RevLite has two main wavelengths, 532nm and 1064nm, which are extremely versatile in the treatment of many different skin problems, and for skin rejuvenation,' says Dr Gavin Chan of the Victorian Cosmetic Institute. 'The 532nm and the 1064nm wavelengths have very different properties and penetrations depths, and this makes it a very flexible laser.'

'Effective treatments can even be performed with virtually zero downtime – something that hasn't been achieved with many other laser systems,' he continues. 'We use it a lot for the treatment of skin pigmentation problems. It is an excellent laser for this as it can penetrate both deeply (1064nm) and superficially (532nm) to target pigmentation at any level; and be used at higher levels to treat pigmentation in fewer sessions.'

Being a Q-switched laser, the very short, high energy pulses impart a photomechanical effect on the pigmentation. This literally shatters the pigmentation to aid in its removal.

Hair Reduction

Safe for all skin colours and even tanned skin, RevLite's large (6mm and 8mm) spot size enables fast, efficient fine hair reduction, including the legs and back. PhotoAcoustic action is especially effective in treating dark vellus hair where high peak power is needed to selectively target the fine hair follicles.

SKIN REJUVENATION

Whether used as part of an ongoing anti-ageing maintenance regimen or a one-time treatment, the PhotoAcoustic Technology Pulse helps reorganise the skin's collagen into parallel arrays of compact fibres. This gives skin an overall tightening effect and inducing ongoing dermal remodelling. Two of the most popular applications are:

RevLite Laser Facial (1064nm and 532nm)

This is a low level laser treatment using both wavelengths to target all layers of the skin. The 1064nm penetrates deeply, stimulates new collagen production and targets deep dermal pigmentation. The 532nm penetrates superficially, and targets sun damage and superficial pigmentation.

'The benefits of this treatment – apart from the toning effect on the skin – is that there is no downtime,' says Geelong plastic surgeon Dr Niamh Corduff. 'The end point is a pinkish skin tone which typically subsides after 20 minutes. Overall, it gives a fantastic result.'

The YAG's short pulse energy isn't absorbed well by skin of any colour – even deeply tanned skin – providing an ideal solution for year-round treatment. Unlike Alexandrite or Ruby lasers that are only safe and effective on lighter skin tones, RevLite is a PhotoAcoustic laser that can safely and effectively treat all skin types and colours, including tanned skin during the summer months.

RevLite Laser Peel (532nm)

As well as stimulating the fibroblasts to produce more collagen for rejuvenative benefits, light pigmentation can also be treated. This monochromatic green light is best suited for fairer Fitzpatrick skin types, I and II.

One to three sessions are recommended four weeks apart but good results can be attained with one treatment. It helps minimize pore size, even out skin tone and reduce fine lines and wrinkles.

'The most common conditions we treat with the 532nm wavelength are freckles and sunspots,' says Adelaide plastic surgeon Dr Tony Moore. 'Patients are generally extremely happy. Some need two treatments but most have only one.'

'RevLite's delivery of high energy means we can use a large spot size for deeper penetration. Speed of use is a great benefit for both the practitioner and the patient.'



HOT SHOTS

VASCULAR SKIN CONDITIONS AND UNWANTED HAIR CAN NOW BE A THING OF THE PAST.

LIGHTSHEER DUET

The LightSheer Duet is a versatile laser specially created to permanently reduce unwanted dark hair on any skin type, with virtually no discomfort in typical cases.

With its new, dramatically increased spot size of 22mm x 35mm, combined with innovative vacuum-assisted technology, enables practitioners to treat larger areas such as backs and legs comfortably in about 15 to 20 minutes, without topical anaesthetics and treatment gel.

Delicate enough to use on a woman's fine, sensitive skin and robust enough for a man's beard, back or arms, the LightSheer Duet uses a diode laser in combination with vacuum to elevate the hair follicles into the upper dermis of the skin. This process destroys the hair bulb in its growth phase, using the targeted conversion of light energy into heat.

'Previously, full leg hair removal would be separated into two sessions for about 60 to 90 minutes each,' says Associate Professor Greg Goodman of the Dermatology Institute of Victoria. 'Now with the larger LightSheer handpiece it takes approximately 30 minutes.'

'Being more efficient and time effective has revolutionised our hair removal business. For the patient it means less of their time as well as less discomfort. Additionally, no anaesthetic cream is necessary,' he continues.

The diode laser is delivered to the skin by a large spot-size handpiece and is capable of treating fine to thick hair, but works extremely well with darker and coarser hair. The darker and coarser the hair, the better the response, as is the case with any laser hair removal device.

The LightSheer Duet offers two different handpieces that are designed to treat different areas of the body. The LightSheer ET hand piece can be used to treat smaller or bony areas such as the face and chin, while the new LightSheer HS high-speed hand piece is ideal for treating larger areas such as legs, arms, chests, abdomen, shoulders and backs.

The laser destroys the entire hair follicle and the germinative cells while preserving the surrounding healthy tissue, and is most effective when the hair is in its active growth stage. Consequently, patients typically need to undergo four to eight treatments to complete a full course for a particular area, at least four to six weeks apart.

The procedure is virtually pain-free and, due to the extremely large diode spot size, treatment is time is substantially lessened.



Discomfort is minimised because of the integrated vacuum technology, which changes the way the skin interacts with the laser instead of the laser itself. A sapphire-tipped hand piece cools on contact, helping to protect the skin while directing the laser energy to the hair follicle.

The LightSheer Duet is also effective for treating ingrown hairs, including pseudofolliculitis, a common condition where men experience a rash and lumps after shaving.

The patient can expect some mild redness and perhaps some follicular-based bumps, lasting only for a couple hours in most cases. There should not be any lingering discomfort, nor any other skin changes such as blistering or darkness of colouration.

Patients with tanned skin have a higher risk of developing post-treatment blistering and dyspigmentation (abnormal formation of pigment). Laser-treated skin is more susceptible to aggravation from sun exposure, so patients should avoid sun exposure for several weeks prior to and after treatment.



The LightSheer smaller ET handpiece (left) and larger HS handpiece

GEMINI DUAL WAVELENGTH

With two distinct laser wavelengths in the same system, the Gemini Dual Wavelength can address common cosmetic indications, including acne, wrinkles, diffuse redness, age spots and unwanted hair.

'It can treat almost any vascular condition on the skin, including broken capillaries (superficial capillaries on the surface of the skin), leg veins, port wine stains and poikiloderma,' says Dr Gavin Chan of the Victorian Cosmetic Institute. 'It can also treat various forms of pigmentation, including solar lentigos, on Asian, olive or darker skin types.'

The system works by turning light energy into heat energy. The laser reaches into the blood of the target area and destroys the vessel without harming the surrounding tissues. This means it can be used on a shallow plane, such as the face, without harming the deeper layers.

The combination of both the 532nm KTP 'green laser' and the 1064nm Nd:YAG means vascular problems that exist both closer to the surface of the skin and deeper underneath can be effectively treated, which allows for a more comprehensive treatment plan.

'It consistently delivers results and has a good degree of versatility with its two handpieces, multiple spot sizes and wavelengths,' says Dr Chan. In addition, the specially designed cooling handpiece features a sapphire tip to help decrease any discomfort for the patient during treatment and help alleviate any pre-treatment nerves.

In many cases a significant improvement can be seen just after one treatment, with optimal results usually achieved after two to three treatments.

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