UltraPulse®
Fractional Laser Treatments
ActiveFX™ | DeepFX™ | TotalFX™

www.aesthetic.lumenis.com
Since 1966, Lumenis has been dedicated to engineering, manufacturing and distributing the world’s most advanced laser and intense-pulsed light systems. Between its five divisions it holds more than 160 patents on which much of the laser industry rests. With more than 80,000 systems installed in Dermatology, Urology, Ophthalmology, Otolaryngology and Aesthetic offices worldwide, Lumenis has committed itself to light-based medicine.

UltraPulse® technology was introduced more than 18 years ago, and has proven itself with over 34 FDA-cleared indications. Considered the gold standard of CO₂ lasers, UltraPulse has been referenced in over 90 peer-reviewed publications. With its long history of fractional capabilities, UltraPulse has led the way in fractional resurfacing.
The evolution of UltraPulse

The first CO₂ lasers delivered energy in continuous waves. These lasers could not produce very high peak powers for sustained periods so had limited pulse energy. As a result, charring often occurred when attempting to resurface tissue with practical spot sizes.

UltraPulse high-energy short pulse:
- ablates tissue quickly and provides hemostasis
- delivers four times more energy per pulse than the super-pulse laser¹
- results in more new collagen formation than the super-pulse laser²

UltraPulse fractional laser treatments were introduced to optimize outcomes and downtime. The introduction of ActiveFX™ and DeepFX™ — the first fractional CO₂ treatments available — reduced downtime and provided dramatic results. Both procedures require only one system, one pass and one treatment.

TotalFX

TUNEL microscopy demonstrates a continuum of thermal damage throughout the dermis. Areas of red represent viable cells, while green and orange show areas of thermal damage. Only the UltraPulse DeepFX has scientifically demonstrated the ability to ablate narrow microchannels and also thermally affect the entire area of tissue between these channels.

The UltraPulse® system provides a full spectrum of resurfacing and surgical capabilities with a single-platform interface. With multiple spot sizes and delivery options, the UltraPulse is the industry’s most versatile CO$_2$ system available.

<table>
<thead>
<tr>
<th>ActiveFX™</th>
<th>DeepFX™</th>
<th>TotalFX™</th>
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<tbody>
<tr>
<td>Treat fine lines, texture and dyschromia</td>
<td>Treat deep wrinkles and scars</td>
<td>COMBINE treatments for total outcomes</td>
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**Adjustable Healing Zone Volume**

<table>
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<tr>
<th>Spot Size</th>
<th>Depth</th>
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<tr>
<td>1.3 mm</td>
<td>0.12 mm</td>
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**ActiveFX**

- Multiple shapes, sizes and densities
- Variable treatment patterns

**ActiveFX UltraScan CPG**

**DeepFX microscanner**

**TrueSpot collimated handpiece**

**Focused incisional handpiece**

**UltraFlex waveguide**
Each laser pulse ablates a column of tissue causing volumetric skin reduction. The ablation removes surface discolorations and deposits heat deep in the dermis. The deep heating causes immediate collagen contraction and long-term collagen remodeling.

Immediate volume reduction
Each laser pulse ablates a column of tissue causing volumetric skin reduction. The ablation removes surface discolorations and deposits heat deep in the dermis. The deep heating causes immediate collagen contraction and long-term collagen remodeling.

customizable treatment

Customize treatments for each patient based on their indication and needs by selecting the density of tissue treated. Only the UltraPulse gives the flexibility of 5-100% coverage in a single pass.

Customized coverage
5–100% ablation

Customized depth
50–2000 µm

Target dyschromia, fine lines, deep wrinkles and scars by choosing the depth of ablation. Use ActiveFX for indications with epidermal components, and DeepFX for deep dermal stimulation.
One system, one treatment, one pass.

**Return on Investment**

- Low-cost consumables
- Single treatment results
- Exceptional per treatment compensation

*Assumes 20 treatments per month at $2500 each, less cost of operation.

You’re going to get this immediate effect and then you get the long-term collagen stimulation. The nice thing is that patients come in and get an instant result. So the satisfaction from the patient is high and the risk of complication is extremely low. It is easy for the patient to take care of and easy for the physician to deal with in the post-operative care period.

James Heinrich, MD

I like the flexibility because we treat some patients with pigment. Both Asian patients and Hispanic patients have been treated up to and including skin type five, with moderate settings and negligible risk of hyperpigmentation.

Jeffrey Kenkel, MD
Clinical Case Studies

PIGMENTATION
BEFORE
AFTER

SCARS
BEFORE
AFTER

PERIORBITAL WRINKLES
BEFORE
AFTER

PERIORAL WRINKLES
BEFORE
AFTER

SCARS
BEFORE
AFTER

PERIORBITAL WRINKLES
BEFORE
AFTER

photos courtesy of Matteo Tretti Clementoni, MD
photos courtesy of Glenn DeBias, DO
photos courtesy of Girish Munavalli, MD
photos courtesy of Robert Weiss, MD
Hello Andrew

Lumenis has 2 manufacturing sites, Yokeam in Israel and Salt Lake City. Due to historical reasons, we have 2 separate Notified Bodies (the organization that certifies us with the ISO and CE approvals)

Yokeam is certified by Amtac from UK. Products manufactured in Yokeam are marked with the CE 0473, this is the Amtac ID number.

Salt Lake is certified by TUV Essen, and accordingly all products manufactured by them are marked CE 0044.

The number accompanying the CE is the ID number for the Notified Body, 0473 for Amtac and 0044 for TUV Essen. 0197 is not applicable for Lumenis products.

I hope this clarifies the issue,

Best regards

Dorit Rabkin

Regulatory Manager

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