

activeFX
deepFX
totalFX

UltraPulse®

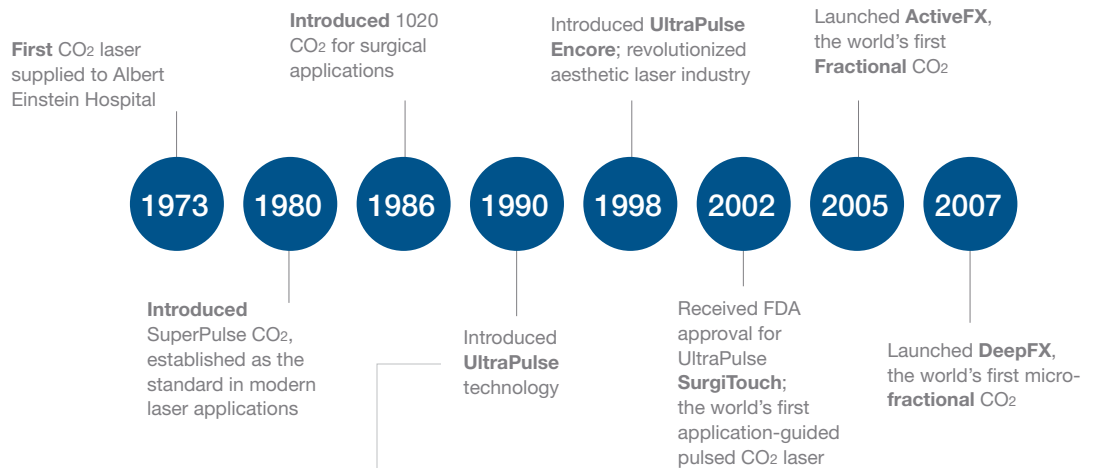
Fractional Laser Treatments

ActiveFX™ | DeepFX™ | TotalFX™

UltraPulse

innovative
versatile
profitable

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.



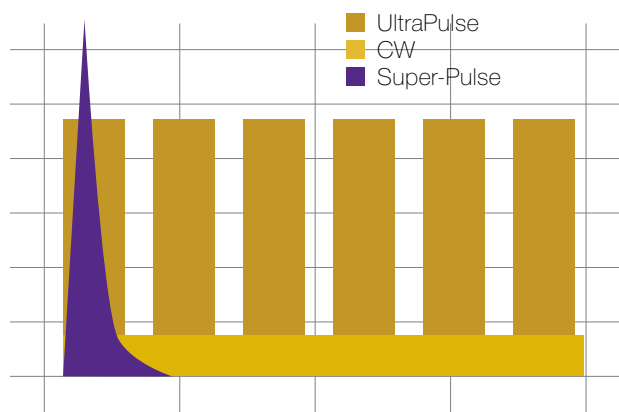
UltraPulse® technology was introduced more than 18 years ago, and has proven itself with over 34 FDA-cleared indications. Considered the **gold standard** of CO₂ lasers, UltraPulse has been referenced in over 90 peer-reviewed publications. With its long history of **fractional** capabilities, UltraPulse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

UltraPulse[®]

innovation

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.

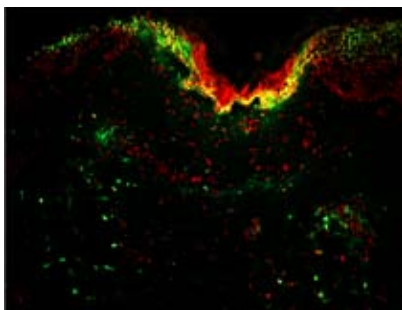


UltraPulse high-energy short pulse:

- 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



histology courtesy of UTSW Dept. of Plastic Surgery

inter-channel efficacy

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.

¹Goldman, Mitchel P and Fitzpatrick, Richard E. Cutaneous Laser Surgery. 2nd ed. St Louis: Mosby 1999.

²Alster, TS, Nanni CA, Williams CM. Comparison of Four Carbon Dioxide Resurfacing Lasers. *Dermatol Surg.* 1999 Mar;25(3):153-8.

UltraPulse[®]

versatile

single system | multi-technology platform

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 CO₂ system available.



ActiveFX
UltraScan CPG



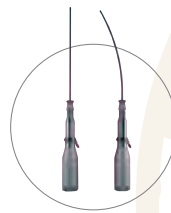
DeepFX
microscanner



TrueSpot
collimated handpiece

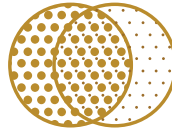
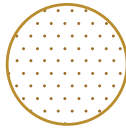


focused incisional
handpiece



UltraFlex
waveguide

Adjustable
Healing Zone
Volume



Spot Size



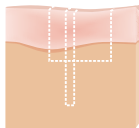
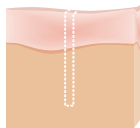
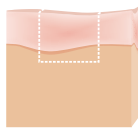
1.3 mm



0.12 mm



Depth



variable treatment patterns

Multiple shapes, sizes and densities



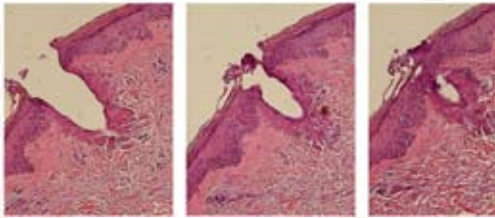
ActiveFX

UltraPulse

versatile

total **fractional** capabilities

Fractional procedures ablate discrete columns of tissue, deposit heat and promote regeneration throughout the underlying layers of the skin. ActiveFX and DeepFX fractional laser treatments are single-pass procedures that ensure even coverage and eliminate the possibility of overlap.



histology courtesy of Vladimir Lemberg, PhD

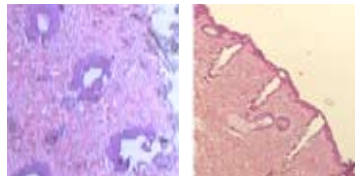
immediate volume reduction

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

customized coverage

5–100% ablation

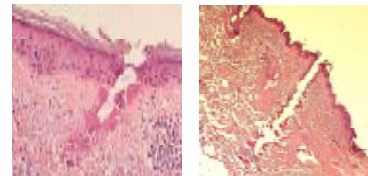


histology courtesy of Vladimir Lemberg, PhD

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 depth

50–2000 μ m



histology courtesy of Vladimir Lemberg, PhD

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.



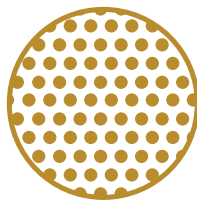
UltraPulse

profitable

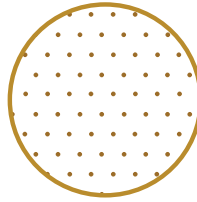
One system, **one** treatment, **one** pass.

Adjustable
Healing Zone
Volume

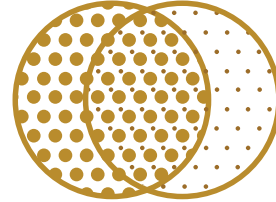
ActiveFX



DeepFX



TotalFX

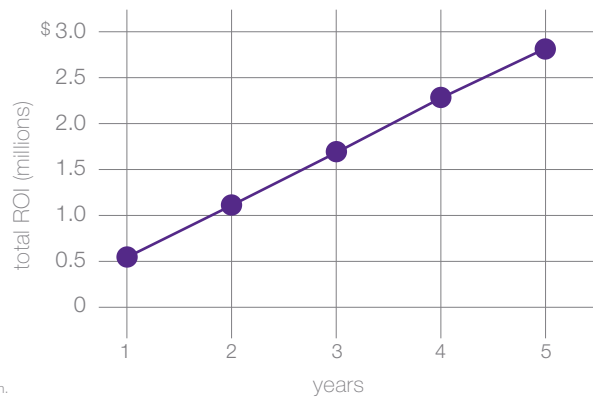


Delivery
Devices



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

UltraPulse

Clinical Case Studies

PIGMENTATION

BEFORE



AFTER



photos courtesy of Matteo Tretti Clementoni, MD

SCARS

BEFORE



AFTER



photos courtesy of Matteo Tretti Clementoni, MD

PERIORAL WRINKLES

BEFORE



AFTER



photos courtesy of Robert Weiss, MD

BEFORE



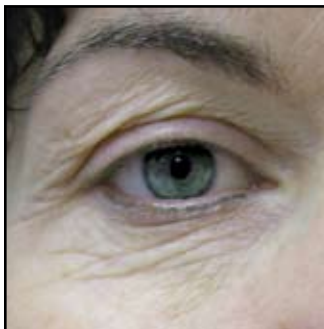
AFTER



photos courtesy of Girish Munavalli, MD

PERIORBITAL WRINKLES

BEFORE

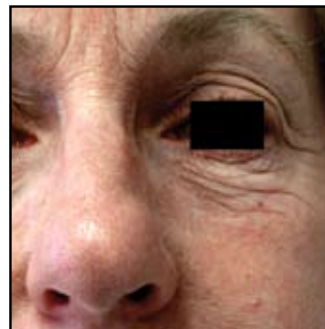


AFTER

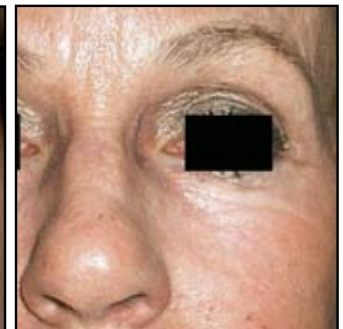


photos courtesy of Glenn DeBias, DO

BEFORE



AFTER



photos courtesy of Glenn DeBias, DO

Support Services:

- **Clinical / Scientific Training** is provided by practitioners who use systems daily and utilizes their deep knowledge of clinical science and real world experience. Advanced training options are also available at the offices of local luminaries or with CME-accredited associations.
- **Marketing Support** is delivered through Building Blocks kits. Build your practice with a series of customizable advertisements, presentations, education materials, letters and much more. Additionally, with registration, your practice is listed on www.skinandhealth.com, a resource for patients and a source of referrals for you.
- **Technical Support** is ready to take your call. Whether your system is serviced at the factory or by our team of regionally based service engineers, we are committed to keeping your practice running smoothly.

To learn about what Lumenis has to offer, visit www.lumenis.com or call **877-LUMENIS**.

specifications

Device Type	UltraPulse Fractionated CO ₂
Wavelength	10,600 nm
Laser Type	UltraPulse or CW
Spot Sizes	2000 µm, 1300 µm, 1000 µm, 200 µm, 120 µm
Power to Tissue	240 Watts
Percent Coverage per Pass	5-100%
Depth of Penetration	up to 2000 µm per pulse
FDA-Cleared Indications	>100
FDA-Cleared Aesthetic Indications	34
Full Resurfacing Capabilities	yes
Fractional Capabilities	yes
Incisional Capabilities	yes
Excisional Capabilities	yes
Recommended Passes per Treatment	1
Estimated Time per Pass	15-20 minutes
Estimated Time per Treatment	15-20 minutes
Consumable Cost per Treatment	\$0-\$40



Ensure Compliance with Government Safety and Performance Standards
1-877-LUMENIS (1-877-586-3647)
 Outside USA, visit www.lumenis.com, click 'Service & Support'



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