

UltraPulse®

 $\mathsf{ActiveFX^{\scriptscriptstyle\mathsf{TM}}} \mid \mathsf{DeepFX^{\scriptscriptstyle\mathsf{TM}}} \mid \mathsf{TotalFX^{\scriptscriptstyle\mathsf{TM}}} \mid \mathsf{SCAAR} \; \mathsf{FX^{\scriptscriptstyle\mathsf{TM}}}$





UltraPulse

much more than a fractional laser

With six times the power of most CO₂ lasers, the UltraPulse system is the preferred laser for advanced applications. Delivering speed, versatility, performance and precision, UltraPulse easily supports a full spectrum of aesthetic and surgical capabilities.

- 6x more powerful than other CO₂ lasers
- 4x the depth of penetration of any other CO_2 laser (up to 4.0 mm)
- 2x the treatment speed of most CO₂ lasers
- 240 Watts of power to tissue
- 225 mJ of energy
- Optimal ablation / coagulation ratio
- Effective single treatment, single pass = > means fast recovery
- Advanced patented technologies
- Offers the most delivery options
- Customizable with unmatched versatility in a range of treatments
- Low cost consumables
- 34 FDA cleared dermatology and plastic surgery indications



As Unique as Each Patient

The science behind UltraPulse directly relates to the powerful and versatile results you can achieve for your patients. Only UltraPulse's fractional technology delivers the power to precisely ablate tissue at optimum levels for impressive results, more quickly, and with less pain than other CO₂ systems.¹

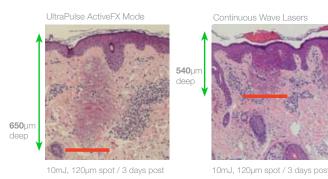
Depth of Impact

A variety of handpieces provide superficial and deeper depths of penetration. Tissue ablation occurs at the precise level which effectively removes surface discoloration, improves skin texture, induces immediate tissue coagulation and stimulates long-term impact on collagen synthesis for improvement of deep wrinkles and scars.¹⁻¹¹

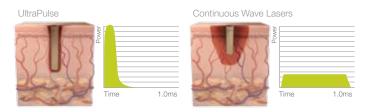
Ideal Ablation / Coagulation Ratio

Sustainable high pulse power with extremely short-pulse durations ablates tissue instantly to reach effective dermal depths with sufficient coagulation to promote collagen remodeling and avoid unnecessary complications.²

SUPERIOR COLLAGEN REMODELING



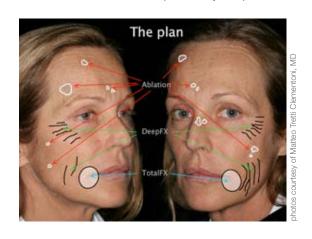
HIGH PEAK POWER, SHORT PULSE DURATION



The Most Customizable CO2 Treatment Available

With the highest power to tissue of any CO₂ laser, UltraPulse delivers the shortest pulse width for any given energy. This combination provides the best control of residual thermal damage and the lowest probability of complications.¹⁻¹¹

Personalize a treatment plan for your patients



CUSTOMIZED COVERAGE 1–100% ablation

histology courtesy of Vladimir Lemberg, PhD
Only UltraPulse gives the flexibility of 1-100%
coverage in a single pass.

CUSTOMIZED DEPTH

.05–4.0 mm





histology courtesy of Vladimir Lemberg, PhD
Target dyschromia, fine lines, deep wrinkles and scars by choosing the depth of ablation.¹⁻¹¹

Introducing SCAAR FX

Synergistic Coagulation and Ablation for Advanced Resurfacing

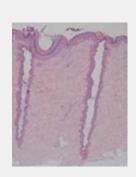
- » Highest Energy (150 mJ per pulse)
- » Deepest Treatment (up to 4.0 mm)
- » Best Performance (optimal ablation/coagulation ratio)

UltraPulse's unique SCAAR FX mode enables treatment of a variety of severe skin lesions which require synergistic coagulation and ablation for advanced resurfacing. Conspicuous, complex and deep skin lesions, such as surgical and acne scars, can be treated like never before with minimal side effects and more effective results.

Treatment of these types of conspicuous scars has been shown to improve patients' quality of life by improving structure and range of motion, as well as the appearance of the skin.

UltraPulse is six times more powerful than other $\rm CO_2$ lasers. Using precision and higher energy impact (up to 150 mJ per spot), as well as shorter pulse durations, the precision of the UltraPulse $\rm CO_2$ laser beam allows up to 4.0 mm impact into skin tissue. This is four times deeper than any other $\rm CO_2$ laser.

Due to these characteristics, SCAAR FX uses a unique ablation/coagulation ratio to substantially improve the structure of deep contracted lesions, such as surgical scars. This maximizes results, minimizes side effects and reduces treatment time.



Reaching up to 4.0 mm into the dermis, the SCAAR FX mode can treat all depths of complex, deep lesions effectively.





AFTER

Improved Range of Motion

3 weeks after one treatment (SCAAR FX 150 mJ, density 1%, 2 passes on the pre-sternal area, right anterior axillary pillar, left breast). Patient is now able to raise her arms higher above her head.

Optimal Versatility

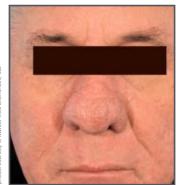
	ActiveFX™ Treat fine lines, texture and dyschromia	DeepFX [™] Treat wrinkles and scars	TotalFX [™] Combine superficial and deep fractional effects	SCAAR FX [™] Treat deep, conspicuous and complex lesions
Adjustable Healing Zone Volume				
Spot Size		•	•	•
	1.3 mm	0.12 mm		0.12 mm
Scanner	ActiveFX (CPG)	DeepFX	ActiveFX (CFG) and DeepFX	DeepFX

UltraPulse Clinical Results

Only UltraPulse delivers next generation CO_2 laser science which enables remarkable results. With energy on tissue of up to 225 mJ, UltraPulse provides the precision and energy needed to reach deep into the tissue to affect the deepest layers of the dermis, up to 4 mm deep (up to 150 mJ per spot with a single pulse). No other CO_2 laser has this ability. So for the results your patients want and the treatment control you demand, UltraPulse is the unparalleled solution.









BEFORE

AFTER 1 TREATMENT

BEFORE

AFTER 1 TREATMENT









BEFORE

AFTER 2 YEARS

BEFORE

AFTER









BEFORE AFTER

BEFORE

AFTER

Carrying the Gold Standard in Lasers

For more than 40 years, Lumenis has been the global leader in research and development, manufacturing and distribution of the world's most advanced laser and intense pulsed light systems. Lumenis holds more than 160 patents on which much of the laser industry is based. With more than 80,000 systems installed in Dermatology, Urology, Ophthalmology and Otolaryngology and Aesthetic physicians' offices worldwide, Lumenis is committed to world class light-based medicine.

Considered the gold standard of CO_2 lasers, UltraPulse has been referenced in over 90 peer reviewed publications. With its long history of fractional capabilities, UltraPulse has lead the way in fractional resurfacing and treatment of conspicuous scars.

Lumenis CO₂ Milestones

1973

First CO₂ laser supplied to Albert Einstein Hospital

1986

Introduced 1020 CO₂ for surgical applications

1998

Introduced UltraPulse Encore; revolutionized aesthetic laser industry

2005

Launched ActiveFX, the world's first fractional CO₂

2007

Launched DeepFX, the world's first micro-fractional CO₂

1980

Introduced SuperPulse CO₂, established as the standard in modern laser applications

1990

Introduced UltraPulse technology

2002

Received FDA approval for UltraPulse SurgiTouch; the world's first applicationguided pulsed CO₂ laser

2012

Launched SCAAR FX, the world's first fractional CO₂ to impact up to 4.0mm for effective treatment of conspicuous, complex scars

Support Services

Clinical / Scientific Training – Training is provided by practitioners who use Lumenis' systems daily and the training utilizes their deep knowledge of clinical science and real world experience.

Marketing Support – Build your practice with a series of customizable advertisements, presentations, education materials, letters and much more.

Technical Support – 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.

UltraPulse - Much More Than a Fractional Laser

Specifications

Technical Specifications 10,600 nm Wavelength UltraPulse or CW Laser Type Power to Tissue 240 W Energy Up to 225 mJ pulse Spot Size min. 0.12 mm / max. 2.0 mm (TrueSpot) Scan Size Up to 15 x15 mm Fractional mode: 1-82%, Full ablative (non-fractional): >100% Density per Scan Depth of Penetration Up to 4.0 mm per pulse (with SCAAR FX) FDA-cleared Indications FDA-cleared Aesthetic Indications 34 Full Resurfacing Capabilities yes Fractional Capabilities yes Incisional Capabilities ves **Excisional Capabilities** Aiming Beam 5 mW red diode laser, 635 nm, adjustable intensity, blink on/off Articulated arm with up to 240 cm reach, 360° rotation Beam Delivery Memory Setting Three Self-contained, closed cycle Cooling 1 Year standard Warranty and Coverage Recommended Passes/Treatment **Platform Specifications** Electrical 100 - 240 VAC, 20 A max., 50/60 Hz Weight 128 kg (280 lbs) Dimensions (WxDxH) 34 x 51 x 144 to 195 cm (13.6 x 20 x 57 to 77 in)

Handpieces





ActiveFX (CPG)

DeepFX handpiece

Optimal reproducibility with a variety of scan shapes, density and sizes:









hexago

agon

■ line







ctangle

triangle

parallelogran

Optional Handpieces



TrueSpot collimated handpiece (up to 2mm spot size)



Focused Incisiona

TrueSpot collimated handpiece delivers consistent fluence over a range of working distances. Ideal for skin resurfacing, acne scars, actinic keratosis, basal cell carcinoma, burn debridement, scar treatment, rhinophyma and removal of nevus. (Up to 2.0 mm spot size)

Focused Incisional handpiece for precise incision and large area ablation, skin resurfacing and precise surgical work including blepharoplasty and wart removal. (0.2 mm and 1.0 mm)

Contact your Lumenis Sales Representative for more information, or call **1-877-LUMENIS** (1-877-586-3647).

www.aesthetic.lumenis.com





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4/12 ISO 13485:2003 Certified CE:0473 PB-1124760 rev B











Ensure Compliance with Government Safety and Performance Standards

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