



AcuPulse

SuperSmart SuperSimple SuperPulse

Now with 4 **NEW** modes

- StretchTouch
- ToeTouch
- FineTouch
- Combo

AcuPulse™

MultiMode™ SuperPulse CO₂ Laser



AcuPulse™

SuperSmart. SuperSimple. SuperPulse.

Easy-to-learn,
easy-to-use interface.

AcuPulse™ is a safe, simple and cost-effective CO₂ laser that delivers outstanding results. AcuPulse can be used for 34 aesthetic indications, more than any other CO₂ laser. AcuPulse combines treatment versatility with reproducible results.

Designed for simplicity, you can choose from ten treatment modes at the touch of the screen. Integrated instruction tools and video tutorials ensure help is always at your fingertips.

Perform all your fractional treatments (superficial and deep) with the same AcuScan120™ scanner. For full resurfacing, use the SurgiTouch™ scanner to achieve the precision and control you seek.

AcuPulse uses SuperPulse technology for an optimal ablation / coagulation ratio, resulting in faster, safer, more reliable results.

The AcuPulse CO₂ laser offers a multitude of capabilities while still being an affordable device.



“

AcuPulse with MultiMode allows me to be much more efficient in the delivery of both deep and superficial fractional laser treatments, enabling me to quickly deliver both modalities using the same handpiece. Initial results show a high level of patient satisfaction and efficacy for the treatment of photodamage, dyschromias and scars.”

”

Michael H. Gold, MD, Medical Director, Gold Skin Care Center

MultiMode™ for Versatility

- 4 fractional modes
- 5 full ablative skin resurfacing modes
- 1 incisional mode

Optimal Reproducible Results

- The SurgiTouch™ and AcuScan120™ scanners on AcuPulse have a high level of scanning precision for optimal, reproducible results.

Effective Technology = Effective Results

- High clinical safety margin due to fast micro second ablation rate
- True SuperPulsed laser - up to 200 Watts of peak power to tissue

Fast Treatment Capabilities

- Controlled, fast procedures due to laser's speed and precision
- Treatment speed - up to 400Hz
- Treatment area - up to 10 x 10 mm (with AcuScan120)
- Treatment area - up to 15 x 15 mm (with SurgiTouch)

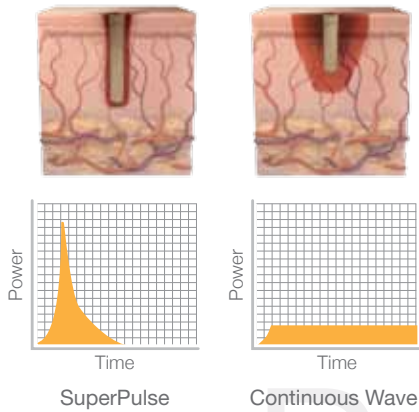
SuperPulse

Technology You Can Trust

Thanks to its unique MultiMode™ capability, the versatile AcuPulse lets you go beyond continuous wave (CW) treatments to take advantage of the benefits of SuperPulse (SP) technology.

AcuPulse's high-peak power, short-pulse duration delivers precise ablation / coagulation ratio for:

- Faster treatment time
- Less residual thermal damage



Since SuperPulse durations are less than a third of a millisecond, you get faster scans resulting in:

- Precise pulse delivery
- Reliable consistency
- Wider safety margins - treat all skin types

Since AcuPulse uses minimal energy in short pulse durations, there is less thermal damage thereby reducing the risk of side effects and resulting in a more comfortable treatment and recovery experience for the patient.

Now you can offer your patients a wider variety of treatments, in less time, while maintaining the highest safety margin with better results.

Superior Clinical Results



Photos courtesy of Michael H. Gold, MD

Before

After 1 treatment



Photos courtesy of Patsai Nunes, MD

Before

After 1 treatment



Photos courtesy of Francesca de Angelis, MD

Before

After 1 treatment



Photos courtesy of Grish Muravalli, MD

Before

After 1 treatment

Offering More Modes for All Y

Lumenis recognizes the importance of being able to offer a rich range of treatment options to your patients while economizing on capital costs. That's why AcuPulse features 10 aesthetic treatment modes including:



Combo™ **NEW**

AcuPulse's Combo™ mode lets you maximize your time and efficiency by safely treating both superficial and deep targets in a single scan. Now you can treat superficial facial lines, wrinkles or sun damage and, in the same scan, treat deep irregular lesions too.



StretchTouch™ **NEW**

AcuPulse is not just for facial treatments. Your patients will be pleased to learn that you can safely and effectively treat skin furrows and other textural irregularities on larger body areas using SuperPulse technology.

The SurgiTouch™ and AcuScan120™ scanners on AcuPulse have a high level scanning precision for optimal, reproducible results.

The AcuScan120™ is the most advanced scanner technology and incorporates precision optics with real time monitoring algorithms. AcuScan120 is user friendly - treats fractionally both Superficial and Deep with the same scanner, hassle free.

Combo

Fractional skin treatments for acne scars, facial lines, wrinkles, and sun damage.

Superficial

Fractional skin treatment for moderate sun damage, fine lines, uneven texture, dyschromia and actinic keratosis.

Deep

Fractional skin treatment for deeper sun damage, deeper lines, acne scars, uneven texture and dyschromia.

StretchTouch

Fractional ablation and coagulation for the treatment of skin furrows and other textural irregularities.



Your Aesthetic Needs



ToeTouch™ **NEW**

The AcuPulse CO₂ laser with ToeTouch mode offers a solution to many of the podiatry ailments your patients seek to treat. Use continuous wave ablation for the treatment of common foot ailments such as toenail fungus, plantar warts, ingrown toenails and more.



FineTouch™ **NEW**

Now you can use AcuPulse's SuperPulse technology for the precise ablation and coagulation of irregular pigmented lesions at various depths.

FeatherTouch

Full resurfacing with less impact. Single scan on the spot for gentler treatments.

SilkTouch

Full resurfacing with more impact. Scans twice on the same spot for more robust treatments.

FineTouch

Precise ablation of irregular pigmented lesions at various depths.

ToeTouch

Nail fungus treatments.

Paint

Full resurfacing of small areas requiring precise placement.



The SurgiTouch™ scanner enjoys an enviable reputation of quality and precision, based on extensive clinical experience.

Bleph

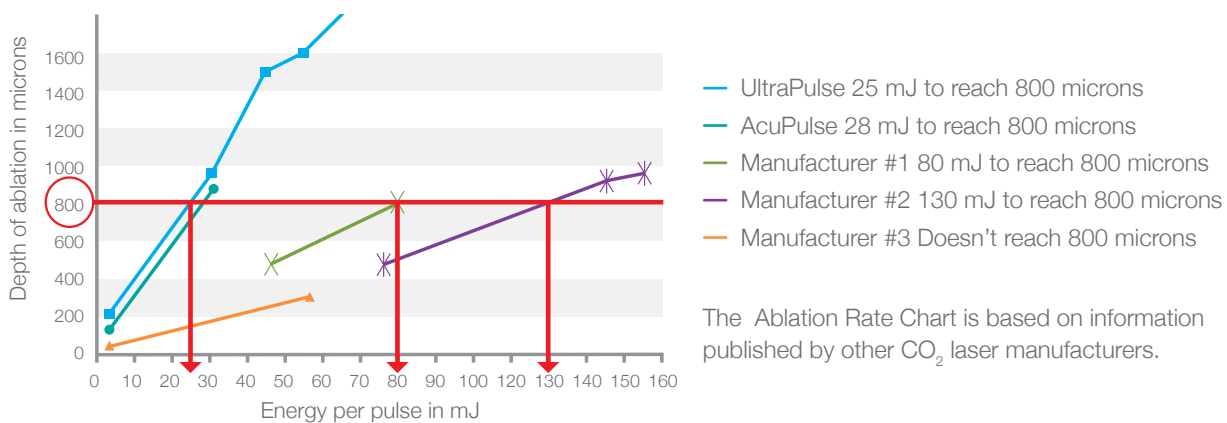
The Bleph mode is used with an incisional handpiece for clean incisions, and mostly for Blepharoplasty.

AcuPulse Technology You Can Trust

SuperPulse technology has the ability to deliver high energy in short pulse durations. This capability enables AcuPulse to achieve a fast ablation rate that is greater than any other CO₂ laser on the market (except for the UltraPulse system from Lumenis).

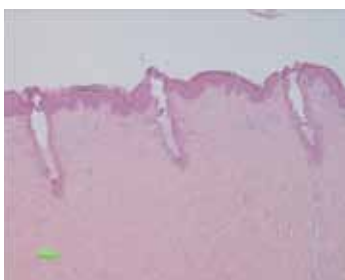
SuperPulse technology has an optimized ablation / coagulation ratio. Because AcuPulse uses minimal energy, there is less thermal damage thereby reducing the risk of side effects and resulting in a more comfortable treatment and recovery experience for the patient.

AcuPulse - Fast Ablation Rate Means Less Risk of Side Effects

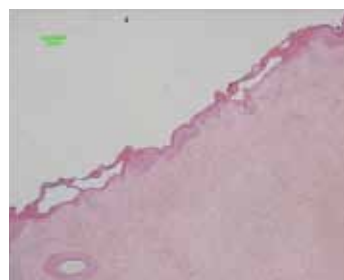


Excess energy for tissue ablation creates surplus thermal damage with greater risks of side effects. This excess energy will, in addition, be likely to create a more uncomfortable treatment experience.

Scanner Precision Leads to Excellent Results



AcuPulse
Deep Mode
Spot Size: 120µm diameter
Energy - 20mJ
Density - 15%
Penetration depth - 700µm



AcuPulse
Superficial Mode
Spot Size: 1.3mm diameter
Energy - 170mJ
Density - 60%
Penetration depth - 150-200µm

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, Otolaryngology and Aesthetic physicians' offices worldwide, Lumenis is committed to world class light-based medicine.

AcuPulse was developed on the excellent engineering foundations of the UltraPulse system, which is considered the gold standard of CO₂ lasers. These two Lumenis CO₂ products have been referenced in over 100 peer reviewed publications.

With a long history of CO₂ development and clinical research, both AcuPulse and UltraPulse have earned well deserved reputations as quality products.

Support Services



Clinical / Scientific Training – Training is provided by practitioners who use Lumenis' systems daily. 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 – Lumenis customer care provides unparalleled service and support and is committed to keeping your practice running smoothly.

40 Years of Leadership in CO₂ Lasers

2012

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

2008

- Launched AcuPulse MultiMode CO₂

2007

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

2005

- Launched ActiveFX, the world's first fractional CO₂

2002

- Received FDA clearance for UltraPulse SurgiTouch; the world's first application-guided pulsed CO₂ laser

1998

- Introduced UltraPulse Encore; revolutionized aesthetic laser industry

1990

- Introduced UltraPulse technology

1986

- Introduced 1020 CO₂ for surgical applications

1980

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

1973

- First CO₂ laser supplied to Albert Einstein Hospital (NYC, NY, USA)

Specifications

Platform	AcuPulse 40 AES-F, AES-R, AES-A
Wavelength	10,600 nm
Laser Type	SuperPulse and CW
Power to Tissue	Up to 40W
Peak Power	Up to 200W
Spot Size	min. 0.12 mm / max. 1.3 mm (AcuScan120)
AcuScan Scan Size	Up to 10 x 10 mm
SurgiTouch Scan Size	Up to 15X15 mm
Density per Scan	Fractional delivery mode: 5-60%, Full ablative (non-fractional): >100%
Depth of Penetration	Up to 1.0 mm per pulse
FDA-cleared Indications	>100
FDA-cleared Aesthetic Indications	34
Full Resurfacing Capabilities	Yes
Fractional Capabilities	Yes
Incisional Capabilities	Yes
Excisional Capabilities	Yes
Aiming Beam	5 mW red diode laser, 635 nm, adjustable
Beam Delivery	Lightweight, 7-joint, spring-balanced arm w/120 cm (47.2 in) reach, 360° rotation
Memory Setting	No limit
Cooling	Self-contained, closed cycle
Warranty and Coverage	1 year standard

Standard Configuration



AcuScan120™ Scanner



Incisional 0.2mm (F125) Handpiece

Platform Specifications

Weight	50 kg (110 lbs)
Dimensions	(WxDxH) 40 cm x 40 cm x 119 cm (15.8 x 15.8 x 47 in)

Optional Handpieces for SurgiTouch scanner



Optional Scanner



SurgiTouch™



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8 /12 ISO 13485:2003 Certified CE:0473 PB-1135190 Rev. B



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Ensure Compliance with Government Safety and Performance Standards

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Sample of Lumenis CO₂ references: 1. Gold, MH. Update on Fractional Laser Technology. Journal of Clinical and Aesthetic Dermatology. 2010; 3(1): 42-50. 2. Ross, EV, Domankevitz, Y, Skrobal, M, and Anderson, RR. Effects of CO₂ Laser Pulse Duration in Ablation and Residual Thermal Damage: Implications for Skin Resurfacing. Lasers in Surgery and Medicine. 1996; 19:123-129. 3. Waibel, J., and Beer, K. Ablative Fractional Laser Resurfacing for the Treatment of a Third-degree Burn. Journal of Drugs in Dermatology. 2009; 8(3):294-297. 4. Cho, S.B., et al. Treatment of Burn Scar Using Carbon Dioxide Fractional Laser. Journal of Drugs in Dermatology. 2010; 9(2):1-3. 5. Lee, S.E., et al. Treatment of Striae Distensae Using an Ablative 10,600 nm Carbon Dioxide Fractional Laser: A Retrospective Review of 27 Participants. Dermatological Surgery. 2010; 36:1683-1690. 6. Cervelli, V., et al. UltraPulsed Fractional CO₂ Laser for the Treatment of Post-traumatic and Pathological Scars. Journal of Drugs in Dermatology. 2010; (11):1328-1331. 7. Sasaki, G., Travis, H.M., Tucker, B. Fractional CO₂ Laser Resurfacing of Photoaged facial and non-facial skin: Histological and Clinical Results and Side Effects. Journal of Cosmetic and Laser Therapy. 2009; 11:190-201. 8. Li, YH., et al. A Chinese experience of fractional UltraPulsed CO₂ Laser for Skin Rejuvenation. Journal of Cosmetic and Laser Therapy. 2010; 12:250-255. 9. Neaman, K.C., et al. Outcomes of Fractional CO₂ Laser Application in Aesthetic Surgery: A Retrospective Review. Aesthetic Surgery Journal. 2010; 30(6):845-852. 10. Laubach, H-J, Tannous, Z, Anderson, RR, and Manstein, D. Skin Responses to Fractional Photothermolysis. Lasers in Surgery and Medicine. 2006; 38:142-149. 11. Manstein, D, Herron, GS, Sink, RK, Tanner, H, and Anderson, RR. Fractional Photothermolysis: A New Concept for Cutaneous Remodeling Using Microscopic Patterns of Thermal Injury. Lasers in Surgery and Medicine. 2004; 34(5):426-438