Capabilities Brochure

CO$_2$RE™

Fractional CO_2 Resurfacing System

Syneron® CANDELA®

The CO_2RE™ Advantage

CO_2RE is the versatile fractional CO_2 system that enables you to precisely target and effectively treat the skin's surface, middle and deep dermal levels, plus perform traditional CO_2 resurfacing and laser excision of lesions.

Grow your practice with this lighter, faster, and more versatile solution for skin resurfacing, wrinkle and scar reduction, traditional ablation and minor surgical applications.* CO_2RE gives you the ability to treat both superficial and deep skin layers simultaneously with precision-control over the intensity, pattern and depth of ablation.

CO_2RE is the first system to emerge since the merger between Candela and Syneron – two industry leaders renowned for their portfolio of gold standard technologies and unrivaled service.

Science that Builds Success

CO_2RE positions your practice for growth through proven, predictable results, increased patient satisfaction and the ability to differentiate yourself with a truly unique treatment offering. Initial cost of ownership is very favorable compared to other CO_2 systems, and has no ongoing disposable costs.

Maximize your investment with clinical in-service training and marketing support plus the confidence that comes with excellent warranty coverage and service support.

Clinical Results

Perioral Wrinkles

4-6 weeks post 1 treatment

Periorbital Wrinkles

4-6 weeks post 1 treatment

Crows Feet

4-6 weeks post 1 treatment

Choose from reusable (left), or single-use disposable handpieces (right).

Who are Your CO_2RE Patients?

Optimal for Fitzpatrick skin types I-III, CO_2RE is the obvious choice for skin rejuvenation and wrinkle reduction when you and your patients understand the treatment tradeoffs of superior, single-treatment results for elevated discomfort and downtime. Flexible and targeted, CO_2RE technology makes this decision easier by helping you deliver predictable and often dramatic results quickly and with less discomfort than some other systems.

Innovative Design

System Features:

- Intuitive touch-screen interface – displays treatment geometries & selections
- Programmed to learn as you work
- Monitors its own performance
- Stores and automatically recalls preferences

Featherweight Articulated Arm:

- Continuous beam centering for reproducible treatment patterns
- Minimizes operator fatigue

CO_2RE Inside Advantage

CO_2RE is engineered to deliver a unique set of pattern generation capabilities that translate into more treatment options for a wider range of patient needs.

Digital SuperPulsed Laser:

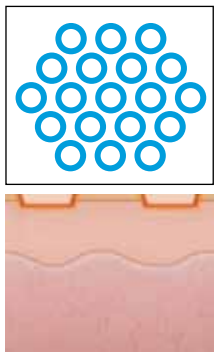
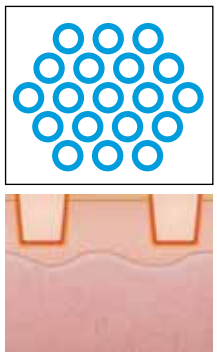
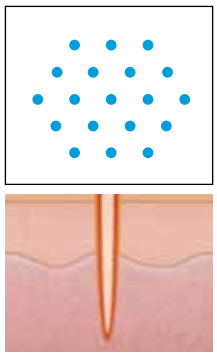
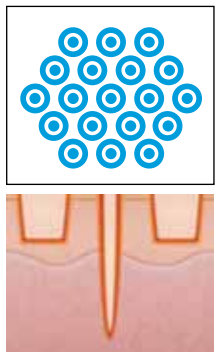
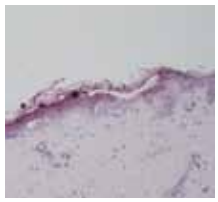
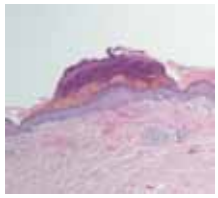
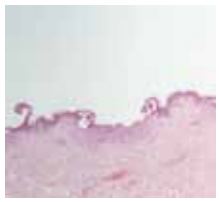
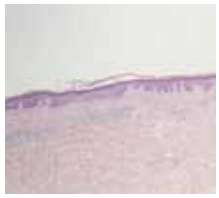
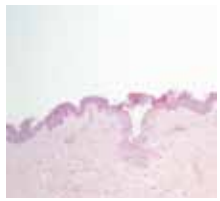
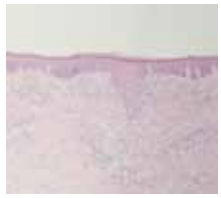
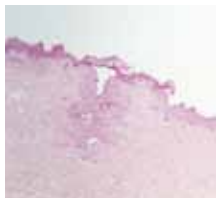
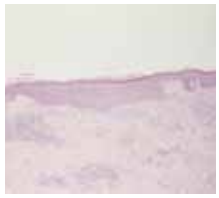
- Delivers the complete matrix of ablative pulses with exceptional speed and precision
- Rapidly varies the laser energy for multi-level treatment capabilities
- High performance design for extreme reliability and long service life

High Precision Inboard Scanner:

- Digitally synchronized with the Laser Pulse Generator
- Changes the position and depth of injury hundreds of times per second
- Allows different parts of the same scan matrix to be placed at different depths

CO_2RE Innovation: Variable Treatment Modes

The CO_2RE system provides a total of seven different treatment modes including four fractional ablative treatment modes and pattern shapes, a traditional resurfacing mode, and two cutting modes including defined cut and freehand mode for minor surgical applications.

Program	CO_2RE Light	CO_2RE Mid	CO_2RE Deep	CO_2RE Fusion
Description	Provides superficial fractional treatments in the epidermis increasing epidermal cell proliferation.	Penetrates more deeply for a stronger fractional ablative effect, producing additional coagulated tissue below the dermal-epidermal junction.	Penetrates through to the dermis for the deepest fractional ablative effect, surrounded with significant coagulated tissue deeper into the dermis.	Unique scan pattern combines treatment depths and intensity of thermal injuries to optimize treatment in the epidermis and dermis simultaneously.
Pattern				
Histology	 60 mJ at 0 days  60 mJ at 3 days	 70 mJ at 0 days  70 mJ at 10 days	 50 mJ at 0 days  50 mJ at 10 days	 60 mJ at 0 days  75 mJ at 10 days

Traditional CO_2 Resurfacing Mode Shapes

Circle Rectangle Square

Surgical Cut Mode Shapes

Circle Segment Freehand

CO_2RE System Specifications

Laser Type	CO_2
Wavelength	10,600 nm
Laser Emission Mode	Pulsed
Output Power	60 watts (maximum peak)
Laser Beam Energy	Variable from 1 - 90 mJ
Pulse Repetition Rate	Up to 16.7 kHz
Pulse Duration	20 - 3000 µsec
Power Stability	± 1.5 watts (±5%)
Mode Quality (M^2)	< 1.2
Beam Size	Ø 1.8 ±0.5 mm
Beam Divergence	7.5 ±0.5 mrad (full angle)
Polarization	> 100:1 linear (orthogonal to mounting pads)
Maximum Scan Area	10 mm diameter
Aiming Laser	5mW, 650nm (red) diode laser
Articulated Arm	• Lightweight, aluminum fiber, 7-joint, pneumatically balanced • Treatment radius at full arm extension: 85 cm (33.5") • Horizontal rotation: 360°
Lens Assemblies	150 µm spot size 120 µm spot size (optional) 195 µm spot size (optional)
Handpiece	Multi-use
User Interface	10.4" high-resolution color LCD Touch-screen technology
Laser Emission Control	Footswitch
Laser Emission Indicators	• Solid amber LED in Standby and Ready modes • Flashing red LED during laser emission
Electrical Requirements	100 - 240 VAC self-sensing, 50/60 Hz, 7.1 A, single phase
Dimensions	40 cm x 44 cm x 177 cm (15.75" x 17.3" x 70")
Weight	26 kg (58 lbs)

Operating Modes

Mode	Energy Settings	Fractional Coverage	Estimated Ablation Depth
CO_2RE Light	30 - 60 mJ	30 - 50%	30 - 60 µm
CO_2RE Mid	60 - 90 mJ	20 - 40%	60 - 100 µm
CO_2RE Deep	50 - 80 mJ	1 - 5%	500 - 750 µm
CO_2RE Fusion	60 - 90 mJ	20 - 40%	60 - 100 µm & 500 - 750 µm
Classic Ablative	1 - 10 mJ	Full	100 - 200 µm
Surgical	10 - 50 mJ	n/a	Line: 6 x 0.2 mm

Syneron Inc.
3 Goodyear, Suite A
Irvine, California 92618
USA
Tel: 866.259.6661
Email: info@syneron.com
www.syneron.com

Candela Corporation
530 Boston Post Road
Wayland, Massachusetts 01778
USA
Tel: 800.821.2013
Email: info@candelalaser.com
www.candelalaser.com

* The use of surgical modes in the United States is under investigation.