

Fractional CO<sub>2</sub> Laser RF-Driver  
**MORE-XEL**  
Stamp/Spray  
UltraPulse

**Let your skin revive**

*Result you can see and feel*

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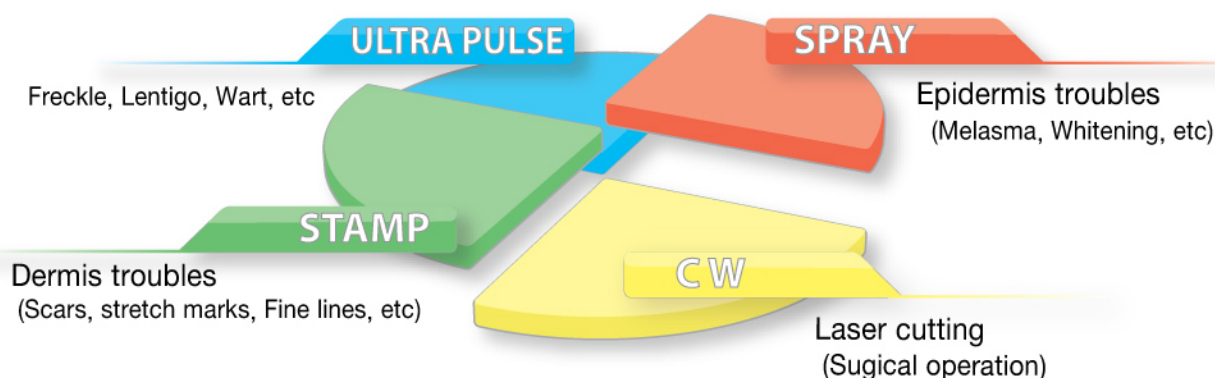


**BISON**  
MEDICAL EQUIPMENT MANUFACTURER  
[www.bisonmedical.com](http://www.bisonmedical.com)  
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# MORE-XEL

## What is MORE-XEL ?

Unlike other CO2 fractional lasers, MORE-XEL is the world's first **3rd generation laser device** equipped with advanced **RF-Driver** and **Stamp-laser** technology.



## Special Features

### RF-Driver

Using the powerful and innovative RF driver, this next-generation fractional laser is designed to offer a safe and dramatic way to treat deep indications without using a glass tube of other laser products. So that there is no need to replace the tube or even repurchase a new laser device due to the laser's semi-permanent lifespan

### Stamp Mode

The laser energy can be delivered into dermal tissues and collagen area deep by this Stamp mode operation that has ability to irradiate every laser beams toward vertical direction unlike a scanner mode operation. And the 49 threads of laser beams irradiating at the same moment shorten time to treat as well as its excellent therapeutic efficacy.

### Spray Mode

Spray mode operation, BISON MEDICAL's proprietary technology, combining merits of two operational modes (Scanner and Stamp mode) in one delivery system, is a new solution to treat dermal and epidermal disorders at a stretch without limit of scanner mode in dermal treatment and stamp mode in epidermal one.

### More Stable beam quality

MORE-XEL ensures the emission of very homogenous beams with 95% purity and  $M2 < 1.2$  at TEM<sub>00</sub> mode to be able to radiate stable energy on every pixel.

### More Precise beam

MORE-XEL has a rise time for a laser ranging from 15 to 30  $\mu$ s so it can produce elaborate and precise laser outputs using a PWM method. Because the MORE-XEL laser basically has a unit pulse length of 90  $\mu$ s, it will ensure user the emission of laser light that is most suitable for the skin of a patient.

### Dynamic Multi Mode (All in one)

Particular interest of MORE-XEL to users is the ability to use ULTRA PULSE and CW mode as well as the latest fractional CO<sub>2</sub> laser function.

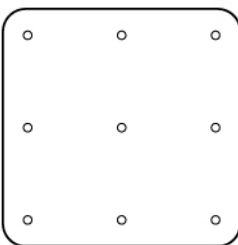
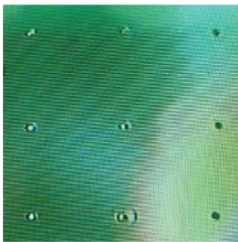




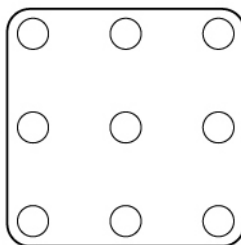
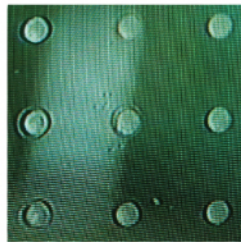
# The exclusive STAMP-method fractional CO<sub>2</sub> laser using a RF driver.

## Spot size comparison

**MORE-XEL**



**Other**

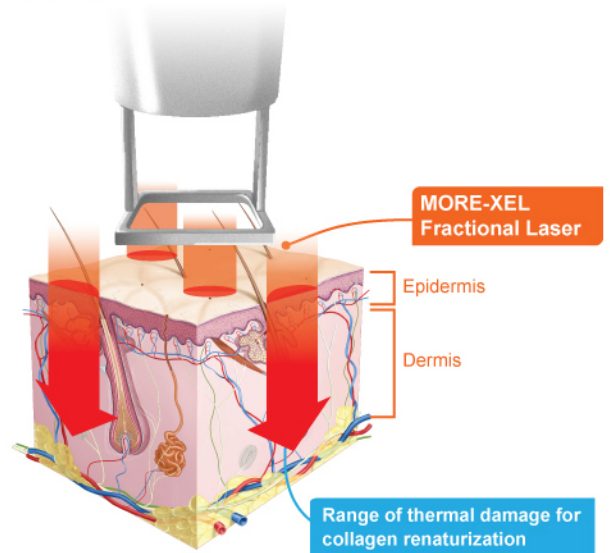


	<b>MORE-XEL</b>	Other stamp-type	Other scanner-type
Spot size (Unit: μm)	<b>70~80</b>	200~250	250~300

These spot sizes of MORE-XEL and scanner-type lasers show a difference of 20 magnifications. Smaller spot size enables the light to penetrate the skin deeply and decrease pains.

## Safe and Quick Treatment

Easy to learn and use, MORE-XEL brings faster results safely for your patients.

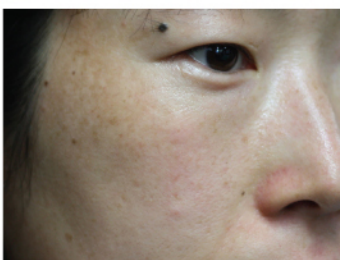


The micro laser beams go into the dermal tissues minimizing skin damage and offer a safe and quick way to perform skin peeling and resurfacing at the same time. Previously, practitioners have used different laser devices for each indication such as skin tightening, scars and pigmented lesions, etc.

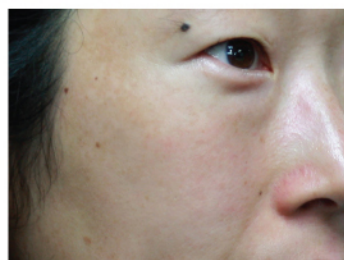
Now, MORE-XEL presents a solution to solve most of skin troubles at a stretch with only one smart laser device.

## Clinical data

### Melasma



**Before**



**After**

### Acne scars



**Before**



**After**

### Large pores



**Before**



**After**

### Burn scars



**Before**



**After**

# Specifications

## General

Model	MORE-XEL
Dimensions (w × h × d)	320 × 750 × 700 mm
Weight	55 kg
Weight including accessories	57.2 kg
Main voltage	200~240 VAC, 50~60 Hz
Maximum power, in operation	330 VA
Safety class	Class IV
Fuses	Little AC 250V 10A x 2

## Laser Module

Laser type	fractional CO <sub>2</sub> laser, RF driver type
Laser mode	Stamp, Spray, Ultra pulse, CW
Wavelength	10.57 ~ 10.63 $\mu$ m, invisible infrared
Beam mode quality	TEM <sub>00</sub> , 95% purity
Beam quality (at 1/e <sup>2</sup> )	M <sup>2</sup> ≤ 1.2
Laser power output	Up to 75 W
Spot size	70 $\mu$ m, 49 pixel (10 × 10 mm)
Unit pulse range	< 100 $\mu$ s
Pulse frequency range	25 ~ 1000 Hz
Pulse Duration range	100 ~ 700 $\mu$ s
Exposure time range	10 ~ 400 ms
Repeat time range	Single, 400 ~ 3000 ms
Delivery system	7-joint, fixed mirror articulated arm
Aimming beam	3.5mw, 650nm red diode laser
Cooling system	air

## Ultra Pulse System

Pulse width	200 ~ 1000 $\mu$ s
Repeat time	10 ~ 1000 ms
Continuous wave power	0.5 ~ 40 watts

## Environmental Condition

Temperature	+10 ~ +40 °C
Relative humidity	30 ~ 75%
Atmospheric pressure	700 ~ 1060 hPa



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