

*Smarter,  
More efficient,  
More reliable,  
More MORE-XEL than ever*

# Scanning MORE-XEL

RF-Fractional Laser + CO<sub>2</sub> Laser + Skin Analyzer

## Exclusive Features of MORE-XEL RF-Scanning

- The World's First Skin Type Selection System
- The Newest and Easiest Touch Operation System
- Skin Analysis System
- Stylish Screen, Luxurious Exterior
- Scanning Mode + Surgical Mode + Clinical Mode
- Adjustable Spot Size
- Smart Random Mode



# “Is it a CO<sub>2</sub> fractional laser? Or something better?”

BISON MEDICAL suggests new CO<sub>2</sub> fractional laser standard different from existing ones.

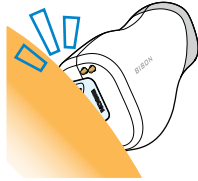
## Skin Analysis System

Setting



Setting Patient's  
Skin type and Lesion

Checking



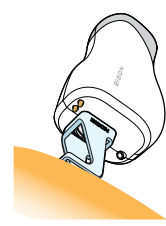
Analyzing Skin  
Condition

Analyzing



Measured moisture condition and  
referred Recommendation

Operation



Ideal Operation for  
a Patient

### + Super Smart Skin Analysis System

More elaborate and faster skin analysis system enable you measure more accurately by subdividing patient's skin condition. After the measurement, you will make safe and convenient treatment by providing optimal parameters suitable for each patient.

### + World's First Skin Type Selection Function

Selecting both of skin type and lesion enables to realize the better customized treatment for doctors. It automatically sets up the optimal parameter for each patient. We developed skin analysis system for the first time in the world.

### + RF-DRIVER

MORE-XEL Scanning adopts RF-Driver of Synrad, USA generating stable and powerful output, and it is semi-permanent.

### + Galvano Motor

We adopted Galvano motor from Cambridge Co., in the USA. Galvano motor is displaying more than 3000 scanning modes, more accurately, and faster. It increases procedure speed more than 15 percent.

### + Multi-Mode

MORE-XEL Scanning has the functions of Ultra Pulse, Super Pulse, and Continuous Wave. In addition, existing fractional CO<sub>2</sub> laser function enables to perform various treatments including laser surgery as well as beauty treatment.

### + Simple to Use & Faster Treatment Times

Smart touchscreen interface and precise dosimetry allow doctors to select optimal treatment settings.



MX-S

## Experience our New CO<sub>2</sub> fractional laser, MORE-XEL Scanning

### surgical

Surgical mode delivers more accurate and varied treatment adding Ultra Pulse, Super Pulse and CW functions for surgeons and internal medicine doctors as well as dermatologists.



### scanning

It will realize more than 3000 scanning modes of scanning sizes, shapes, directions, densities, etc. and enhanced usability by differentiated UI such as air, memory, sound and beam brightness.



### analyzing

It expresses skin moisture condition up to one decimal point, and established smart guide system providing related cautions and characteristics on the screen.

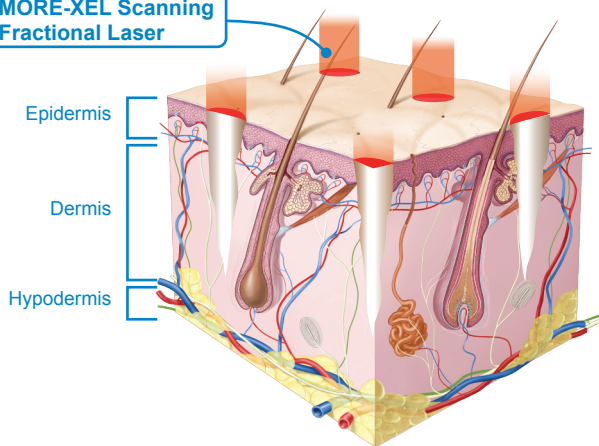


### clinical

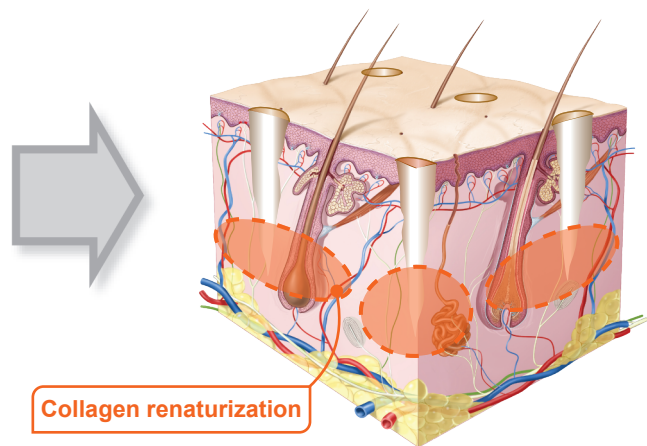
Clinical mode allows physicians more delicate and accurate treatment by the selection of Skin Type and lesion of the patients.

## ❖ Skin Regeneration Process of MORE-XEL Scanning

### MORE-XEL Scanning Fractional Laser



Micro laser beam of  $\mu\text{m}$  unit penetrates into from epidermis to the deep inner skin.



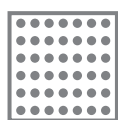
Remodeling of epidermis and collagen at the same time through the natural regeneration promoting effect of normal surrounding tissues.

## ❖ MORE-XEL Scanning's Indications

- A Variety of Scars, Pimple Scar, Scar of Surgery, Scar by External Injury, Scar of Burns
- Wrinkle of Forehead, Wrinkle around the Eyes and Mouth
- Photo-Aging Skin: Rough and Messy Skin Tone, Skin Texture, Wide Pore
- Epidermal Coloring Lesion such as Freckle, Blemish, etc
- Total Skin Resurfacing
- Removal of Lesion such as Mole, Wart-Syringoma, Colloid Milium



## Shapes



Rectangle



Circle



Diamond



Hexagon



Round Rectangle

## Directions



Sequence



Convergence



Divergence

SPRAY

Spray

SMART  
RANDOMSmart  
Random

## Specifications

### General

Dimensions (W × D × H)	320(W) × 710(D) × 970(H) mm (Include Arm H : 1610 mm)
Weight	54 kg
Weight including accessories	61 kg
Main voltage	220~240 VAC, 50~60 Hz
Maximum power, in operation	330 VA
Safety class	Class IV laser
Fuses	2 × Little AC 250V 10A

### Laser module

Laser type	Fractional CO <sub>2</sub> laser, Scanner type
Wavelength	10.57 ~ 10.63 $\mu\text{m}$ , 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 30W
Adjustable spot size	100 / 300 / 600 $\mu\text{m}$
Delivery system	7-joint, fixed mirror articulated arm
Aiming beam	3.5mW, 650nm red diode laser
Cooling system	Air

### Clinical system

This system analyzes skin moisture and skin type, it automatically sets up the optimal parameters based on the clinical data.

### Scanner system

Scanning area	X: 3 ~ 20 mm, Y: 3 ~ 20mm
Scanning shape	Rectangle, Circle, Diamond, Hexagon, Round rectangle
Scanning direction	Sequence, Converge, Diverge, Smart Random, Spray
Dot pitch (Density)	0.5 ~ 1.9 mm
Pulse width	Typically 20 ~ 24,000 $\mu\text{s}$
Energy in one dot	Typically 0.2 ~ 240 mJ (@10 Watt, 1 time)
Repeat delay	Single, 100 ~ 3,000 ms
Overlap	1 ~ 9 times
Overlap delay	200 ~ 40,000 $\mu\text{s}$

### Surgical system

<b>Ultra Pulse</b>	
Pulse width	100 ~ 1,250 $\mu\text{s}$
Exposure time	10 ~ 1,000 ms
Repeat delay	Single, 10 ~ 1,000 ms
<b>Super Pulse</b>	
Exposure time	100 ~ 9,000 $\mu\text{s}$
Repeat delay	Single, 10 ~ 1,000 ms
<b>Continuous Wave</b>	
Power	0.5 ~ 10 Watts

### Environmental condition

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

# BISON

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