

# Pix Scan

The innovative design of Pix Scan is one step further with the introduction of fractional treatments based on the established CO2 laser technology.



The Pix Scan laser combined with unique scanning technology makes it possible to graduate the fractional treatment to the requirements of individual patients. The Pix Scan platform provides full flexibility.

- From a light touch-up to traditional skin resurfacing
- Versatile treatment modalities
- Reduced downtime
- No consumables
- User friendly pre-programmable settings
- Fast and effective

# Pix Scan

## 15 Watt CO2 Laser

Laser type	Continuous wave or pulsed CO2 laser Laser Class 4 (IEC 825)
Max output power	15W
Wavelength	10,600 nm
Target indicator	Red indicator light through fibre (653 nm)
Fibre connection	Pix Scan Quick Safe Connect
Spot size in focus mode	0.5 mm
Pulsed emission:	
- frequency range	min. 0.3 Hz/Max 100 Hz
- pulse width	10 - 1000 millisecc.
Power supply	Mains connection (100 - 240V or 50/60 Hz)
Size	67.0x28.0x44.0 cm
Weight	Approx. 16 kg with base
Safety class	I type BF

## Ergonomic scanner

Scan density	7 x 7 spots = 1.66 mm spacing 9 x 9 spots = 1.25 mm spacing 11 x 11 spots = 1.00 mm spacing
Scan size	10 x 10 mm
Pulse width/dwell time	2-3-4-5-6-7 msec selectable per spot
Energy Density per spot	24-84 mJ/cm2 at 12 watt
Start/stop function	Foot switch on Pix Scan
Indication of settings	Green LED indicators
Treatment distance	27 mm from output lens
Power density	Approx. 21 kW/cm2 at 15 W from Pix Scan
Size	12 x 11 x 2.5 cm
Weight	Approx. 290 g excl. cable and fibre system
Safety class	1 type BF

## Fibre Systems for 10.6 um

Mode of operation	Continuous or intermittent
Optical wavelength	10.600 nm
Abs. max. optical output power	15 W
Optical efficiency	>68%
Length	1650 mm
Weight	Approx. 300 g



VISIBLE AND INVISIBLE  
LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE TO  
DIRECT OR SCATTERED RADIATION  
LASER CLASS 4



fractional skin treatment

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**Pix Scan**

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# Pix Scan

- Safe
- Fast
- Easy to use
- No disposables



## Fractional skin treatments

The Pix Scan is based on the well-proven CO2 platform which has proved its worth for many years. The fractional treatment is achieved with the unique Pix Scan scanner which distributes the energy in an even pattern, leaving little areas of untreated skin in-between spots.

This facilitates the skin healing process and reduces patient downtime.

## Easy to use

The unique Pix Scan scanner facilitates fast and consistent treatments. This secures optimal patient safety and predictable treatment results. The ergonomic design and the light weight of the scanner offers full flexibility during treatment. The scanner is connected

to the laser by a unique flexible silver-crystalline fibre. The Pix Scan can store 4 preprogrammed settings, according to the specific requirements of the operator. Time-to-treatment is thus further reduced by the simple pressing of one button to get started.

## Design

The Pix Scan is small and compact. The laser unit can be supplied in vertical or horizontal position to adapt to the needs of the individual clinic. The laser requires no consumables and no regular maintenance which makes it highly cost-effective in use.

# Pix Scan Treatments

## 3-dimensional scanner

Pix Scan treatments are done with a new scanner which distributes energy over a 10 x 10 mm treatment area. Pulse widths range from 2 to 7 msec and spacing between spots from 1 to 1.66 mm. The combination of these parameters graduates treatment results and downtime. All parameters can be controlled from the scanner allowing rapid and easy adjustments during procedures. Penetration depth with a normal setting of 12 Watt, 5 msec, reaches 500µm as confirmed by histological examination.

Energy density per pulse is adjustable. However, with a normal setting of 12 Watt the energy per pulse is between 24 mJ/pulse up to 84 mJ/pulse. Depending on the settings the pattern fill factor is between 7% to 20%.



Before the treatment

After the treatment

4 fractional treatments  
Output power: 8 W

Scan density: 64 d/cm  
msec: 3



Before the treatment

After the treatment

4 fractional treatments  
Output power: 8 W

Scan density: 100 d/cm  
msec: 3 - 5

## Traditional skin resurfacing

The well-known skin resurfacing procedure is an easy-to-have option on the Pix Scan. A specially developed scanner for traditional skin resurfacing is easily adapted to the laser unit. Plug it in, make a few easy adjustments of settings and you are ready to work.

## General dermatology

The CO2 laser is a highly useful, all-round tool for the dermatology clinic. The flexible fibre system is fitted with a standard handpiece which distributes energy in focus or de-focus mode to achieve the desired treatment result. Lesions such as warts, naevi and condylomas are fast and easily removed with just a few simple adjustments of the equipment.

## Oral surgery

CO2 laser treatments form an important part of oral, mucogingival and parodontal surgery within the dental and maxillofacial fields. The ability of the laser to cut and coagulate at the same time makes it an indispensable tool for securing optimum treatment results, even in infected tissue. The laser beam is delivered through specially mirrored handpieces securing access at all angles.

Some of the lesions that can be treated:

- Gingivoplasty
- Bone cavity sterilization
- Leukoplakia
- Excision of scars, warts and benign tumours
- Lichen planus, mucositis