



perfect skin

GP
General Project
ADVANCED BIOMEDICAL TECHNOLOGIES

Pix Scan 2



Fractional CO₂ laser

Pix Scan 2 is a carbon dioxide surgical laser that incorporates a special scanner that fractionalizes the light beam emitted by the laser so that it only partially hits the skin in hundreds of microscopic points leaving the largest part of the epidermis unaltered. The fractionalized laser beam acts by burning minute portions of tissue in depth but leaving the surface skin intact. This allows considerably reducing healing time and resuming normal activities after the operation.



TECHNICAL SPECIFICATION

LASER Type	CO ₂
Wavelength	10.6 μm
Laser power	15 W (at the tissue) surgical handpiece 10 W (at the tissue) scanner
Laser class	IV
Emission mode	continuous, pulsed, superpulsed
Repetition frequency	1 ÷ 999 Hz
Spot diameter	< 0.1 mm surgical handpiece < 0.4 mm scanner
Guide light	laser diode 635 nm, 1.5 mW (laser class I)
Power supply	220 ÷ 240 V/110 ÷ 130 V 50 ÷ 60 Hz
Installed power	300 VA
Mass (weigh)	26 kg - 51 kg with trolley
Max. dimension	60 x 40 x 130 cm - 56 x 65 x 193 with trolley
Reference rules	IEC 601.1 IEC 825
Protection class	1, type B surgical 1, type BF scanner

SCANNER

X axis scanning length	5 ÷ 20 mm
Y axis scanning length	5 ÷ 20 mm
Pixel persistence time	5 ÷ 100 msz
Picture filling	20 ÷ 100%

The beam emitted, split into a punctiform matrix by the scanner, produces miniscule punctures in depth causing denaturation of collagen and consequent production of fibroblasts, i.e. cells that form new collagen, hyaluronic acid and elastin. That is why the treatment rejuvenates and improves the skin tissue without attacking the surface skin. It is hence the most suitable instrument for resurfacing of acne scars, melasma, hyperpigmentation and surgical scars. Pix Scan 2 has a pattern scanner which allows treating large surfaces in a short time. Thanks to an extremely intuitive control panel, you can select the parameters such as dimensions, time and percentage fractioning of the area to be treated.



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