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Doctor Tecar SMART

WHAT IS DOCTOR TECAR SMART?

THE PERFECT COMPROMISE BETWEEN PERFORMANCE AND FUNCTIONALITY

Doctor Tecar SMART is a device that can perform tecar therapy treatments, a method of energy transfer in capacitive and resistive mode which is able to stimulate the passage of energy in biological tissues and to activate the natural processes of repair and recovery.

Doctor Tecar SMART is light, compact and easy to use: these features, combined with its performance make it the perfect partner for any therapist who needs an intuitive and reliable device by his side in everyday work.





COMPACT. LIGHT

AND EASY TO TRANS-

PORT





EASY AND INTUITIVE USE

FULL CONTROL VIA Touch Screen







ONLY ONE VERSATILE Handpiece

CAPACITIVE AND RESISTIVE Frequencies

PROTOCOLS FOR EF-FECTS AND PATHOLOGY

LIGHT AND COMPACT



Mectronic's **SMART line** includes a new range of compact, portable and easy to use products, able to offer an effective therapy for every need.

The **SMART line** is the ideal solution for the therapist who is looking for a small device, without making compromises in terms of excellent performance and ease of use that characterizes Mectronic devices.



SIMPLE AND INTUITIVE

SMART is the keyword of this product line signed by Mectronic: each device is designed to be easy to use, featuring a highly intuitive user interface.

Doctor Tecar SMART is "plug and play": after turning on the device it is already possible to operate and treat with only a couple of simple operations. Moreover **Doctor Tecar SMART** offers a large number of customization options, allowing the operator to optimize the therapy for every treatment.

The **Real Time Switching Wave Cube technology** allows switching from resistive to capacitive mode (and vice versa) with a simple touch, without changing the handpiece or applicator for faster and more accurate results.

THE CONTROL IS IN YOUR HANDS



Thanks to its 7" touchscreen, MecOS 5.0 operating system guides the operator through the management of the therapy in a simple and intuitive way guaranteeing practical results from the very first use.

Doctor Tecar SMART also includes the **SSDTS system (Soft Start Doctor Tecar System):** an innovative system that releases energy gradually only after contact. Thanks to the SSDTS system, the therapy is extremely effective, safe and controlled, thus avoiding the risk of annoying shocks that can occur when using other Tecar devices.

VERSATILITY AND EFFICIENCY

Doctor Tecar SMART features a comfortable and compact handpiece without compromising the versatility necessary for an effective therapy.

MAGNETIC ATTACHMENT



Changing the applicator is a frequent operation that can be difficult when the operator has cream on his hands. In order to make the operation easy, quick, and efficient, Mectronic has

designed and patented the **DT-MAS magnetic system** (Doctor Tecar Magnetic Attachment System).

TWO WORK FREQUENCIES

Doctor Tecar SMART works in both resistive and capacitive modes, using two different frequencies that allow interacting and bringing the tecar energy to different areas of the body.

RESISTIVE MODE

In **Resistive mode**, the lower frequency current (448 kHz) flows through the resistive parts of the human body, such as joints, ligaments, tendons and bones.

CAPACITIVE MODE

In **Capacitive mode**, the higher frequency current (750 kHz) mainly flows through the capacitive parts of the human body, such as muscles and areas with high fluid content.

BIO-TRANSFER SYSTEM

Doctor Tecar SMART features an innovative system for measuring the amount of energy transferred to the tissues, which is shown to the therapist on the display and communicated by means of an acoustic signal. The system measures the energy transferred to the tissue in the anatomical region under treatment, in relation to time and the power supplied. This system allows for the evaluation of active hyperemia and the resulting increase in the flow of electrolytes, showing the variation of the electrical impedance during treatment compared to the initial value, at rest. The impedance variation lasts until after the end of the treatment, guaranteeing the correct and continuous oxygenation of all tissue components that are treated.



2 EMISSION MODES

Doctor Tecar Smart offers two types of different emission modes: continuous emission (CW) and pulsed emission (PULS), each one with unique advantages and features, allowing the operator to fully control the therapy with a few simple settings.

CONTINUOUS EMISSION (CW)

The continuous emission mode allows for constant delivery of tecar current, transferring a controlled amount of energy to the tissues directly affected by the therapy.

PULSED EMISSION (PULS)

The pulsed emission mode allows for delivery at regular time intervals, avoiding an excessive increase of the internal temperature and thus treating pathologies in the acute phase.



THE IDEAL SOLUTION FOR EVERY NEED

To further customize the therapy, **Doctor Tecar SMART** has different types of protocols that allow every therapist to find the right solution for his needs.



TIME MODE

The Time mode allows the therapist to set a specific time mode during which the therapy can be performed. The therapy stops automatically when the set value is reached.

JOULE MODE

Joule mode allows the therapist to set the determined amount of energy necessary for the treatment. The therapy stops automatically when the set value is reached.

PROTOCOLS FOR EFFECTS



Doctor Tecar SMART allows the operator to work in order to obtain specific effects: biostimulant, anti-inflammatory, anti-edema, analgesic, and contracture-relieving.



PROTOCOLS FOR PATHOLOGY

Doctor Tecar SMART features a complete pathology library with over 30 therapeutic protocols to treat the most common problems. The software also offers the safety of instant visual feedback displaying power, emission mode, therapy time and treatment area.



AVX AUTOMATIC MODE (OPTIONAL)



The automatic mode of **Doctor Tecar SMART** has been designed to allow the therapist's freedom of movement and to optimize time.

The special cable and the three electrodes also allow treating even the most complex areas of the human body.

The safety of our patients must always come first: for this reason Mectronic has designed a safety button to allow the patient to stop therapy at any time. While the automatic mode is running, the therapist can also perform other treatments on the same patient, optimizing therapy times and further expanding the therapeutic possibilities offered by **Doctor Tecar SMART**.



ACCESSORIES



TECHNICAL SPECIFICATIONS

SOFTWARE	Mectronic's own MecOS 5.0 Real-Time Operating System
POWER	70 VA effective (210 Wpp)
BIOTRANSFER	Display and acoustic
CONNECTION	Contact control system
CABLE CHECK	Guided procedure with graphic and acoustic feedback
DISPLAY	7" TFT IPS color display with capacitive touch screen
FREQUENCIES	- 448 kHz - 750 kHz
PROTOCOLS	Over 80 preset protocols
	- CW - Pulsed
operating Mode	- Resistive - Capacitive
WORK MODE	- Timer - Joule
POWER SUPPLY	100÷240 V 50÷60 Hz
SPECIAL MODES	Protocols to maximize the main effects: - Biostimulant - Anti-inflammatory - Contracture-relieving - Anti-edema - Analgesic
avx automatic Mode	Simultaneous automatic mode (optional)
ABSORPTION	250 VA
SIZES	- case: 295 x 265 x 147 mm - with trolley: 516 x 516 x 1015 mm
WEIGHT	- саяе: 3,5 Кд - шітн тrolley: 22,5 Кд
COMPLIANCE	IEC/EC 60601-1, 60601-1-2
CERTIFICATION	CE0051
	CE0031
DIRECTIVE 93/42/CE	Ilb Classification



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