

# Ultrapeel® Transderm® Digital

mattioli engineering

**Ultrapeel® Transderm® Digital** is an intelligent powered drug-delivery system carrying Transderm® that has been fda cleared for the *“local administration of ionic drug solutions into the body for medical purposes and can be used as an alternative to injections”*.

**Ultrapeel® Transderm® Digital** uses Dermoelectroporation® technology to deliver any active ingredient into the body and it monitors in Real time the patient's skin characteristics, to modify the pulse delivery accordingly, to ensure 100% delivery success and maximum flexibility.

**Ultrapeel® Transderm® Digital** consists of :

- Ultrapeel® II plus digitally controlled microdermabrader
- Transderm® Digital with applicator (user selectable)
- Super precision liquid dispenser - SPLD Macromolecules (> 15,000dalton) not transdermally deliverable by traditional iontophoresis are now successfully and safely deliverable by this outstanding Dermoelectroporation® technology (up to 2,000,000dalton and more).

Patients will enjoy treatments with Ultrapeel® Transderm®

Digital due to the very high comfortable sessions. Vibration features make electrical pulses delivery perception to decrease significantly.

Ultrapeel® Transderm® Digital ensures speed of action, easier regulation of all treatment parameters in real time to give users the final results they expect in a safe and reliable way. The ergonomic and lightweight applicators allow users to work greatly for patient.

## Some of the Benefit to patients

- ASTONISHING RESULTS FROM THE 1<sup>ST</sup> SESSION
- “TAYLORED ON PATIENT” PROTOCOLS
- COMFORTABLE TREATMENTS
- NO DOWNTIME OR SOCIAL LIFE RESTRICTION OF ANY SORT
- NO IRRITATIONS, BURNINGS OR INFLAMMATIONS
- NO TRAUMA FROM INJECTIONS
- FASTER OUTCOMES



New Patient's Personalized Delivery mode  
Easy to use and non invasive.

Transderm Fda cleared as alternative to injections.

New internationally patented proprietary Dermoelectroporation® technology.

Current delivery perception protected.

Real time control on homogeneous drug delivery.

Real time transdermal delivery monitoring.

Control on either amount of drug to be delivered and time of treatment.

No need of pre-charged compounds or carrying gels

No need of specific products or pre-charged preparations

No need of additional terminals (return electrode).

Reproducibility of treatment.

## Some international user's applications

- Hyperhidrosis
- Cellulite treatments
- Skin Rejuvenation treatments
- Cellulite treatments
- Wrinkles treatments
- Fat Deposits treatments
- Pre laser treatments
- Pre and post plastic surgery sessions
- Skin Whitening treatments
- Steroids applications
- Aesthetic applications
- Replacing injections for Mesotherapy applications and many others

## Some international user's deliverable drugs

- Type A Botulinum Toxine
- Phosphatidylcoline
- Hyaluronic Acid
- Aminophylline
- Grow Factors
- Amino Acids
- L-Carnitine
- Lidocaine
- Heparine
- Collagen
- Vitamins
- Steroids
- Elastine
- and many others

# Ultrapeel® Transderm® Digital

## TECHNICAL SPECIFICATIONS

### ULTRAPEEL® TRANSDERM® DIGITAL

**POWER SUPPLY:** 9 V DC, 1A max, external

**AVERAGE PULSE CURRENT:**

+/-1 mA, 2 mA, 3 mA, 4 mA, 5 mA, user selectable, 20%

**LOAD IMPEDANCE:** 0 -15 KOhm

**PULSE FREQUENCY:** 2200 Hz

**BURST TIME:** 10 msec.

**BURST FREQUENCY:** 50 Hz.

**CLASS (ACCORDING TO EN60601-1):** Class I type BF

### MICRODERMABRADER

**SUPPLY VOLTAGE:** 240VC single phase

**FREQUENCY:** 50 Hz

**POWER ABSORPTION:** 440VA

**FUSES:** 2 x 2 AT at 220V, 50Hz

**CLASS (ACCORDING TO EN60601-1):**

Class 1 type B

**EXTN CONNECTOR:** 9Vdc 1A max

**COMPRESSION:** 2,5 bar max, adjustable

**SUCTION POWER:** from 0.2 to 0.7 bar

(below 10000 mt altitude)

**ABRADING MEDIA:**

High purity medical grade corundum powder

### PHYSICAL

**DIMENSION:** 32x35x55 cm

**WEIGHT:** 20 kg



### MATTIOLI ENGINEERING ITALIA S.P.A.

Via Petrarca 80-82  
50041 Calenzano (Firenze) - Italy  
Phone +39 055 882247  
Fax +39 055 8874879  
info@mattioliengineering.com

### MATTIOLI ENGINEERING LIMITED

204 Cambridge Heat Road  
London E2 9NQ  
uk@matteng.com

## Dermelectroporation®

**Dermelectroporation®** is a new named and patented proprietary technology of Mattioli Engineering Labs.

Dermelectroporation® technology utilizes the skin's water based "channels" to allow ionic drug solutions to penetrate due to controlled "electroporation-like" continuous reversed polarity electrical pulses delivery. These pulses **increase the skin permeability** and allow transdermal delivery of drugs as occurs in traditional iontophoresis, even if the average current value on the patient is zero. Due to this either micro-molecules and **macro-molecules** (greater than 800 Kdalton in size, such as Hyaluronic, Vitamins, Amino acids, Heparin, Antinflammatories etc) **are safely delivered** into the body without either modification of the ionic drug solutions pH and Electrolysis effect of the ionic solution itself. This was not possible with traditional iontophoresis systems before.

a new science  
in skin care®

[www.mattioliengineering.com](http://www.mattioliengineering.com)