

# Ultrapeel® II plus Transderm® Meso® System

mattioli engineering

**Ultrapeel® II plus Transderm® Meso® System** is a powered drug-delivery system that has been **FDA approved** 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® Meso® System uses Dermoelectroporation® Technology to deliver any active ingredient into the body and when connected to Ultrapeel® microdermabrader allows a very efficient transdermal delivery of products.

**Ultrapeel® II plus Transderm® Meso® System** is made of the following devices:

- Ultrapeel® II plus digitally controlled microdermabrader
- Transderm® Meso® delivery display w/applicator
- Super Precision Liquid Dispenser - Super PLD

Macromolecules (greater than 15.000 Dalton) previously not transdermally deliverable by traditional Ionthophoresis are now successfully deliverable due this outstanding Dermoelectroporation® Technology.

Patients will enjoy treatments with Ultrapeel® II plus Transderm® Meso® System due to the very high comfortable sessions.

Vibration feature that makes electrical pulses delivery perception to decrease significantly.

Ultrapeel® Transderm® Meso® System ensure speed of action, easier regulation of either Current delivery and vibration and monitors Skin impedance in Real time to give users the final results they expect. The light applicators allow users to work greatly for any skin condition and any length of treatment.

## Benefit to patients

- ASTONISHING RESULTS FROM THE 1<sup>ST</sup> SESSION
- COMFORTABLE TREATMENTS
- NO DOWNTIME OR SOCIAL LIFE RESTRICTION OF ANY SORT
- NO IRRITATIONS, BURNINGS OR INFLAMMATIONS
- NO TRAUMA FROM INJECTIONS
- FASTER OUTCOMES DUE TWO ULTRAPEEL® MICRODERMABRASION

Easy to use.

FDA cleared as alternative to injections.

New Internationally Patented proprietary Dermoelectroporation® Technology.

Non invasive.

Current delivery perception protected.

Control on homogeneous drug delivery.

Real time skin impedance measurement feature.

Real time transdermal delivery monitoring.

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

No need of Pre-charged compounds / Carrying Gels / specific products or particular preparations / Additional terminals.

Reproducibility of dose delivered by means of microdermabrasion.

## Some applications

- Hyperhidrosys
- 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 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

DATA SHEET

# Ultrapeel® II plus Transderm® Meso® System

## TECHNICAL SPECIFICATIONS

### TRANSDERMAL DELIVERY

**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



9 electrodes  
applicator  
Connectivity

### 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



3 electrodes  
applicator  
Connectivity

### PHYSICAL

**DIMENSION:** 32x35x55 cm

**WEIGHT:** 20 kg



Pre-Packed, Disposable  
Cap Electrodes  
And Super PLD



## 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.



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a new science  
in skin care®

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