

**COMBINATION THERAPY  
SHOCKWAVE ELECTROTHERAPY ULTRASOUND**

## What is radial shockwave?

Radial shockwave therapy is a method for the treatment of orthopedic disorders. A bullet accelerated in the handpiece generates a mechanical pressure wave, which is transferred to the human body by an applicator head and which radiates out in the tissue.

The mechanical energy is absorbed by the tissue and decreases as the distance from the application site increases. The mechanical stress triggers reactions in the tissue that have a positive influence on a wide range of orthopedic and neurological conditions.



## What is electrotherapy?

Electrotherapy involves the use of surface electrodes to apply an electrical current for the controlled stimulation of neuromuscular tissue. It has been proven effective to improve overall muscle condition, as well as muscle action and performance.

Electrotherapy causes neuronal excitation and changes cell membrane permeability. Its overall effect is the generation of localised muscle-pumping action, improving joint mobility, muscle strength and circulatory and lymphatic drainage.

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## How IFC differs from TENS?

Transcutaneous electrical nerve stimulation (TENS)

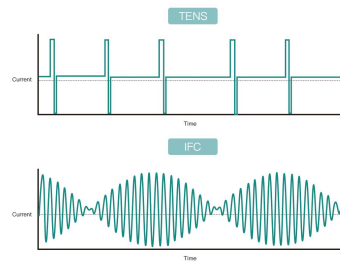
Intended for temporary pain relief in sore and aching muscles or for symptomatic relief of chronic pain.

Most pervasive type of electrical stimulation. Limited in functionality, but cheap as a result.

Interferential current (IFC) electrical stimulation

Intended for asymptomatic relief of acute, chronic, and post-traumatic or post-surgical pain

Similar to TENS, but more effective, powerful and deeper penetration.



## What is ultrasound therapy?

Ultrasound therapy causes mechanical vibrations, from high frequency sound waves, on skin and soft tissue via an aqueous solution (Gel). A gel is applied either to the applicator head or to the skin, which helps the sound waves to evenly penetrate the skin.

The ultrasound applicator converts power from the device into acoustic power that can cause thermal or non-thermal effects. The sound waves create microscopic stimulation in the deep tissue molecules that increase heat and friction. The warming effect encourages and promotes healing in the soft tissues by increasing the metabolism at the level of the tissue and cells.



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## Ultrasound therapy

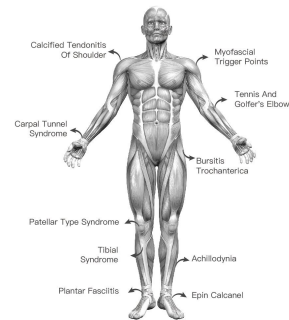
Advantages in treating conditions such as tendonitis, bursitis, and joint pain caused by arthritis.

## Shockwave therapy

Pain conditions such as plantar fasciitis, tennis elbow, rotator cuff, and other chronic musculoskeletal pain.

## Electrotherapy

Block pain, relax muscles, decrease atrophy, reduce swelling or edema.

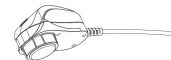


## Therapeutic Ultrasound

1MHz — deep penetration

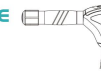
Applicator with a diameter of 4 cm — large treatment area

0.2-3W/CM<sup>2</sup> — High energy transfer



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## Radial Shockwave Applicator



### TRANSMITTERS FOR PAIN MANAGEMENT



### TRANSMITTERS FOR SPINE PROBLEM



### TRANSMITTERS FOR FASCIA TREATMENT



## Interferential Current Therapy

• LARGE ELECTRODES  
For muscle relaxation



• MEDIUM ELECTRODES  
For joints and myofascial trigger point



• SMALL ELECTRODES  
For deeper stimulation



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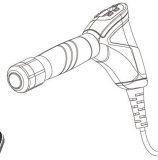
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## INTELECT PULS 100 FEATURES:

- ▶ Combination of multiple therapies, standing machine
- ▶ Wide range of application for both chronic and acute pain conditions
- ▶ Radial shockwave with 10 bar intensity and precise energy adjustment
- ▶ Radial shockwave with 13 transmitters for varied applications
- ▶ Electrotherapy with IFC mode and TENS mode
- ▶ Electrotherapy with 8 electrodes for varied applications
- ▶ Non disposable electrodes
- ▶ Ultrasound with 1MHz deep vibration therapy
- ▶ Touch screen – easy and user-friendly with treatment protocols



## User-friendly interface



- ▶ Three therapies can be performed simultaneously or separately
- ▶ Recommended treatment protocol display



- ▶ Preset parameters for 9 body parts
- ▶ Professional guidance on treatable indications

## Technical Data

|                             |                                  |
|-----------------------------|----------------------------------|
| Model:                      | INTELECT PULS 100                |
| <b>Electrotherapy</b>       |                                  |
| Carrier frequency:          | 1K-5KHz                          |
| Premod frequency:           | 1-60Hz                           |
| Mode:                       | continuity & 0.5-2Hz pulse mode  |
| Channel:                    | A & B                            |
| <b>Shockwave</b>            |                                  |
| Intensity:                  | 0.5-10Bar                        |
| Frequency:                  | 1-21Hz                           |
| <b>Mechanical vibration</b> |                                  |
| Intensity:                  | 0.2-3W/CM <sup>2</sup>           |
| Frequency:                  | 1MHz                             |
| Mode:                       | continuity and 1-10Hz pulse mode |
| Applicator diameter:        | 4cm                              |



**K**  
**KAPHAPHYSIO**  
卡梵科技



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Intellect Puls 100