

Intelect® SWD100



2012



Chattanooga Intellect® SWD100

A new look at a proven modality

What is Shortwave Diathermy?

Shortwave Diathermy is the clinical application of electromagnetic energy to generate heat deep within body tissues, penetrating deeper than other conventional heating techniques such as hot packs, infrared therapy and heating pads. It's also more efficient in heating deep muscle tissue than therapeutic ultrasound. Shortwave diathermy's deep, soothing heat treats a wide variety of musculoskeletal conditions. The Intellect SWD100 is cleared for the following indications:

- Pain Relief
- Reduction of Muscle Spasm
- Decreasing Joint Stiffness
- Contractures
- Increased Blood Flow
- Chronic Inflammatory Conditions including
 - Synovitis
 - Bursitis
 - Tenosynovitis
 - Chronic Inflammatory Pelvic Disease



FEATURES

- Touch-and-go treatment via user interface
- Full-color LCD screen
- Clinical Educational Resources include:
 - Full-color graphics library of anatomical images and pathologies
 - Applicator placement images
 - Diathermy rationale
 - Diathermy contraindications
- Adjustable treatment timer
- Automatic resonance tuning
- Two output channels
- 360° Swivel rotation of touch-screen interface
- Robust, multi-jointed, pivoting electrode arm
- Patient safety switch
- 200 User-defined protocol storage slots
- Patient Documentation of treatment sessions, pre and post treatment patient pain scales, pain mapping and pain types all captured on Patient Data Cards
- Two-year warranty



What separates Intellect SWD100 from the competition?

The Intellect SWD100 benefits from Chattanooga's long history of producing state-of-the-art rehabilitation devices that are intuitively easy to use. Its full-color touch screen interface, User-Defined Protocol storage slots, Clinical Educational Resources and more combine to provide you with a shortwave diathermy device unlike any other. With Intellect's comprehensive on-board software, you can initiate treatment with a simple two-step start, through guided clinical protocols or with in-depth manual settings.

1. **Thermal Dosimetry** – Simply select dosage level for true touch-and-go treatment. It doesn't get any easier than this.

Select Thermal Dosimetry		
	Level	Description
Dose I	Lowest	No perception of heat
Dose II	Low	Slight warming (Mild perception of heat)
Dose III	Medium	Pleasant warming (Comfortable perception of heat)
Dose IV	Heavy	Strong warming (Strong but tolerable perception of heat)

2. **Clinical Protocols** – Take the guesswork out and select from over 90 clinical protocols for guided treatment selections.



Thigh/Knee Pain Relief

Electrode:

Dose I

⌚ 20 min.

☑ Pulsed

📺 100 Hz

📏 65 usec

⚡ 150 Watts

3. **Manual SWD Settings** – Manually set parameters on the edit screen for more in-depth control.

Edit Treatment

Mode: Pulsed

Electrode: Monode 14cm

Pulse Rate: 200 Hz

Power: Max: 0 W, Avg: 0 W

Pulse Width: 100 usec

Treatment Time: 20 min.

Applicators

Shortwave diathermy treatments can be applied using either the inductive field or the capacitive field method.

Inductive Field Method

A coil housed in a drum is placed over the body part where its magnetic field produces high frequency currents for effective deep heating of tissue and muscle with low impedance.



Diplode



Monode

Capacitive Field Method

The body part is treated within the electromagnetic field of two plate electrodes, which warms superficial and high density tissues such as skin, tendon, ligament, joint capsule and bone more effectively. Capacitive electrodes require optional left side electrode arm (14790).



Capacitive Electrodes
80mm, 120mm, and 165mm



Flexible Rubber Electrode
with felt layer

Technical Specifications

Mains Power: 100-240 VAC, 50-60 Hz
Output Frequency: 27.12 MHz
Output Power: 100 W Continuous Mode
200 W Peak in Pulsed Mode
Weight: 60 lbs. (27 kg)
Dimensions (WxDxH): 24"x 12"x 45.5"
(61 x 30.5 x 115.5 cm)
Pulse Width: 20-400 µsec
Pulse Rate: 10-800 Hz
Treatment Time: 1-60 minutes
Electrical Safety Class: Class B
Safety Tests: IEC/EN/UL 60601-1,
IEC/EN/UL 60601-2-3,



Ordering Information

Intelect SWD100

1600 - Intelect SWD100
Includes: Inductive drum (Monode), connection cable, arm, indicator tube, and CD manual

Optional Accessories

- 020969553** - Diplode
- 02200002** - Monode
- 14790** - Optional Electrode Arm (Left)
- 020453217** - Capacitive Electrode 120mm (1x)*†
- 020453218** - Capacitive Electrode 165mm (1x)*†
- 020453216** - Capacitive Electrode 80mm (1x)*†
- 020453266** - 180x120mm soft rubber electrode (1 packet and felt layer)†
- 020453267** - 250x145mm soft rubber electrode (1 packet and felt layer)†

* Requires optional electrode arm #14790

† Requires two for treatment



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