Moving Rehabilitation Forward™

INTELECT®

LEGEND SERIES

User Manual

STIM
Models 2S & 4S

Electromagnetic Compatibility (EMC) Tables
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This manual has been written for the owners and operators of the Intelect® Legend Series Stim, models 2S and 4S. It contains general instructions on operation, precautionary practices, maintenance and parts information. In order to maximize use, efficiency and the life of your unit, please read this manual thoroughly and become familiar with the controls as well as the accessories before operating the unit.

Specifications put forth in this manual were in effect at the time of publication. However, owing to DJO, LLC’s policy of continual improvement, changes to these specifications may be made at any time without obligation on the part of DJO, LLC.

Before administering any treatment to a patient you should become acquainted with the operating procedures for each mode of treatment available, as well as the indications, contraindications, warnings and precautions. Consult other resources for additional information regarding the application of electrotherapy.

**Product Description**

With the same legendary performance, quality and value that has made the Intelect name respected world-wide, the Intelect® Legend Series Stim offers the convenience of a multi-waveform electrotherapy system with the advantage of easy-to-use 1-2-Go software.

Features include Interferential, Premodulated, High Volt and Russian waveforms. Other features include our 1-2-Go Software, a clear, backlit LCD display and programmable power-up presets.

*This equipment is to be used only under the prescription and supervision of a licensed practitioner.*
SAFETY PRECAUTIONS

PRECAUTIONARY INSTRUCTIONS

The precautionary instructions found in this section and throughout this manual are indicated by specific symbols. Understand these symbols and their definitions before operating this equipment. The definitions of these symbols are as follows:

CAUTION

Text with a “CAUTION” indicator will explain possible safety infractions that could have the potential to cause minor to moderate injury or damage to equipment.

WARNING

Text with a “WARNING” indicator will explain possible safety infractions that will potentially cause serious injury and equipment damage.

DANGER

Text with a “DANGER” indicator will explain possible safety infractions that are imminently hazardous situations that would result in death or serious injury.

Dangerous Voltage

Text with a “Dangerous Voltage” indicator serves to inform the user of possible hazards resulting in the electrical charge delivered to the patient in certain treatment configurations of waveforms.

NOTE:

Throughout this manual “NOTE” may be found. These notes are helpful information to aid in the particular area or function being described.
SAFETY PRECAUTIONS

⚠️ CAUTION

• Read, understand, and practice the precautionary and operating instructions found in this manual. Know the limitations and hazards associated with your treatment table. Observe any and all precautionary and operational decals placed on the unit.
• DO NOT operate the Intelect Legend Series Stim unit when connected to any unit other than Chattanooga devices.
• DO NOT operate this unit in an environment where other devices are being used that intentionally radiate electromagnetic energy in an unshielded manner. Portable and mobile RF communications equipment can affect Medical Electrical Equipment.
• DO NOT use sharp objects such as a pencil point or ballpoint pen to operate the buttons on the control panel.
• This unit should be operated, transported, and stored in temperatures between 59° F and 104° F (15° C and 40° C), with relative humidity ranging from 30%-60%, and where the atmospheric pressure is between 950 h Pa and 1050 h Pa.
• Inspect cables and connectors before each use.
• The Intelect Legend Series Stim is not designed to prevent the ingress of water or liquids. Ingress of water or liquids could cause malfunction of internal components of the system and therefore create a risk of injury to the patient.
• A licensed practitioner experienced with physical therapy must be familiar with all instructions contained in this manual before administering therapy.

⚠️ CAUTION

• DO NOT permit any foreign materials or liquids to enter the unit. Take care to prevent any foreign materials including, but not limited to, inflammables, water, and metallic objects from entering the unit. These may cause unit damage, malfunction, electrical shock, fire, or personal injury.
• This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. Harmful interference to other devices can be determined by turning this equipment on and off. Try to correct the interference using one or more of the following: reorient or relocate the receiving device, increase the separation between the equipment, connect the equipment to an outlet on a different circuit from that to which the other device(s) are connected and consult the factory field service technician for help.
• Where the integrity of the external protective earth conductor arrangement is in doubt, equipment shall be operated from its internal electrical power source.
• DO NOT disassemble, modify, or remodel the unit or accessories. This may cause unit damage, malfunction, electrical shock, fire, or personal injury.
• Failure to use and maintain the Intelect Legend Series Stim and its accessories in accordance with the instructions outlined in this manual will invalidate your warranty.
SAFETY PRECAUTIONS

CAUTION

• DO NOT remove the cover. This may cause unit damage, malfunction, electrical shock, fire, or personal injury. There are no user-serviceable parts inside the unit. If a malfunction occurs, discontinue use immediately and consult the dealer for repair service.
• Nylatex® Wraps contain dry natural rubber and may cause allergic reactions in patients with allergies to latex.

WARNING

• Powered muscle stimulators should be used only with the leads and electrodes recommended for use by the manufacturer.
• Before administering any treatment to a patient you should become acquainted with the operating procedures for each mode of treatment available, as well as the indications, contraindications, warnings, and precautions. Consult other resources for additional information regarding the application of electrotherapy.
• To prevent electrical shock, disconnect the unit from the power source before attempting any maintenance procedures.
• Keep electrodes separated during treatment. Electrodes in contact with each other could result in improper stimulation or skin burns.
• Stimulation should not be applied over the anterior neck or mouth. Severe spasm of the laryngeal and pharyngeal muscles may occur and the contractions may be strong enough to close the airway or cause difficulty in breathing.
• Stimulation should not be applied transthoracically because the introduction of electrical current into the heart may cause cardiac arrhythmia.
• Stimulation should not be applied over swollen, infected, and inflamed areas or skin eruptions, e.g., phlebitis, thrombophlebitis, varicose veins, etc.
• Stimulation should not be applied over, or in proximity to, cancerous lesions.
• Output current density is inversely related to electrode size. Improper application may result in patient injury.

• These devices are restricted to sale by, or on the order of, a physician or licensed practitioner. This device should be used only under the continued supervision of a physician or licensed practitioner.
• Make certain the unit is electrically grounded by connecting only to a grounded electrical service receptacle conforming to the applicable national and local electrical codes.
• Care must be taken when operating this equipment around other equipment. Potential electromagnetic or other interference could occur to this or to the other equipment. Try to minimize this interference by not using other equipment in conjunction with it. (i.e. cell phones, etc.)
• The user must keep the device out of the reach of children.
• Long term effects of chronic electrical stimulation are unknown.
SAFETY PRECAUTIONS

WARNING

• Be sure to read all instructions for operation before treating a patient.
• Dispose of all products in accordance with local and national regulations and codes.
• Use of controls, adjustments, or performance of procedures other than those specified herein may result in hazardous exposure to ultrasonic energy.
• Do not turn the unit on or off while it is connected to the patient.
• Use only accessories that are specially designed for this unit. Do not use accessories manufactured by other companies on this unit. DJO, LLC is not responsible for any consequence resulting from using products manufactured by other companies. The use of other accessories or cables may result in increased emissions or decreased immunity of this unit.

DANGER

• Patients with an implanted neurostimulation device must not be treated with or be in close proximity to any shortwave diathermy, microwave diathermy, therapeutic ultrasound diathermy, or laser diathermy anywhere on their body. Energy from diathermy (shortwave, microwave, ultrasound, and laser) can be transferred through the implanted neurostimulation system, can cause tissue damage, and can result in severe injury or death. Injury, damage, or death can occur during diathermy therapy even if the implanted neurostimulation system is turned “off.”
• DO NOT connect the unit to an electrical supply without first verifying that the power supply is the correct voltage. Incorrect voltage may cause unit damage, malfunction, electrical shock, fire, or personal injury. Your unit was constructed to operate only on the electrical voltage specified on the Voltage Rating and Serial Number Plate. Contact your DJO, LLC dealer if the unit is not properly rated.
SAFETY PRECAUTIONS

INDICATIONS/CONTRAINDICATIONS AND ADVERSE EFFECTS FOR ELECTRICAL STIMULATION

Interferential and Premodulated

Indications

• Symptomatic relief of chronic, intractable pain
• Management of pain associated with post-traumatic or postoperative conditions

Contraindications

• This device should not be used for symptomatic pain relief unless etiology is established or unless a pain syndrome has been diagnosed. This device should not be used on patients with demand type cardiac pacemakers. This device should not be used over cancerous lesions.
• Electrode placements must be avoided that apply current to the carotid sinus region (anterior neck) or transcereberally (through the head).

Warnings

• The long-term effects of chronic electrical stimulation are unknown. Safety has not been established for the use of therapeutic electrical stimulation during pregnancy.
• Adequate precautions should be taken when treating individuals with suspected or diagnosed heart problems, or epilepsy.
• Benefits of Interferential stimulation have not been established for pain of central origin.
• This device is to be used as a symptomatic treatment for pain and has no curative value. Patients should be cautioned and their activities regulated if pain is suppressed that would otherwise serve as a protective mechanism.
• Electronic monitoring equipment (such as ECG monitors and ECG alarms) may not operate properly when electrical stimulation is being utilized.
SAFETY PRECAUTIONS

INDICATIONS/CONTRAINDICATIONS AND ADVERSE EFFECTS FOR ELECTRICAL STIMULATION

Precautions

- Isolated cases of skin rash may occur at the site of electrode placement following long-term applications. The irritation may be reduced by use of an alternate conductive medium or an alternative electrode placement.
- Effectiveness of this treatment is dependent upon patient selection.

Adverse Effects

- Skin irritation and burns beneath the electrodes have been reported with the use of therapeutic electrical stimulation.

Russian and High Volt

Indications

- Relaxation of muscle spasms
- Prevention or retardation of disuse atrophy
- Increasing local blood circulation
- Muscle re-education
- Maintaining or increasing range of motion
- Immediate postsurgical stimulation of calf muscles to prevent venous thrombosis

Contraindications

- This device should not be used on patients with demand type cardiac pacemakers.
- This device should not be used on cancer patients.
SAFETY PRECAUTIONS

INDICATIONS/CONTRAINDICATIONS AND ADVERSE EFFECTS FOR ELECTRICAL STIMULATION

Warnings

• The long-term effects of chronic electrical stimulation are unknown.
• Safety has not been established for the use of therapeutic electrical stimulation during pregnancy.
• Adequate precautions should be taken when treating individuals with suspected or diagnosed heart problems.
• Adequate precautions should be taken in the cases of persons with suspected or diagnosed epilepsy.
• DO NOT stimulate over the carotid sinus nerve, especially in persons with a known sensitivity to the carotid sinus reflex.
• Severe spasm of the laryngeal and pharyngeal muscles may occur if the electrodes are placed over the neck or mouth. The contractions may be strong enough to cause breathing difficulty or even close the airway.
• DO NOT perform therapeutic electrical stimulation transcerebrally (through the head).
• Therapeutic electrical stimulation should not be applied over swollen, infected or inflamed areas of skin eruptions, (e.g., phlebitis, thrombophlebitis and varicose veins).
• Use extreme caution in transthoracic application of therapeutic electrical stimulation, introduction of electrical current into the heart may cause arrhythmia.
• This device should only be used under medical supervision for adjunctive therapy for the treatment of medical diseases and conditions.
• This device should be kept out of the reach of children.

Precautions should be observed in the presence of the following:

• Following recent surgical procedures especially when muscle contractions could disrupt the healing process.
• Where sensory nerve damage is present by a loss of normal skin sensation.
• When there is a tendency to hemorrhage following acute trauma or fracture.
SAFETY PRECAUTIONS

INDICATIONS/CONTRAINDICATIONS AND ADVERSE EFFECTS FOR ELECTRICAL STIMULATION

• Over the menstruating uterus.
• Some patients may experience skin irritation or hypersensitivity due to the electrical stimulation or the electrical conductive medium. The irritations can usually be reduced by the use of an alternate conductive medium or alternative electrode placement.

Adverse Effects

• Skin irritation and burns beneath the electrodes have been reported with the use of therapeutic electrical stimulation.
OVERVIEW

Operator Interface – *(Pages 12-13)*

*On the 2S:* The operator interface consists of a Liquid Crystal Display (LCD).

*On the 4S:* The operator interface consists of a Liquid Crystal Display (LCD) and three Light Emitting Diodes (LEDs). The operator is able to view Channel designation, Treatment time and Output on the LEDs and Parameter options on the LCD.

The software control of the Legend Stim has been designed to be extremely user friendly. First press the treatment mode button of your choice, increase intensity and press start. The software also allows great flexibility should you desire to change parameters.

**Changing Parameters** – To change parameters, use the **UP/DOWN** arrows to select the parameter, then press **ENTER**. If there are two options, pressing **ENTER** will toggle between those choices. If there are three or more options, pressing **ENTER** will display a pop-up window with the choices listed. Use the **UP/DOWN** arrows to choose an option and then press **ENTER** to accept.

**Enter** – The **UP/DOWN** arrows control the Select Highlight box and the **ENTER** button confirms the change.

**Main Menu/Escape** – (On Model 4S only) This button will return you to Main Menu or allow you to escape from a pop-up menu.

**Channel** – (On Model 2S only) This button also allows you to change parameter display from Channel 1 to Channel 2.

**Time** – The **UP/DOWN** arrows increase or decrease the default treatment time.

**Power/Intensity** – The **UP/DOWN** arrows increase or decrease the intensity/power.

**Treatment Selection** – There are four waveform selections, plus Ultrasound and Combo.
**OVERVIEW**

**Start** – This button will start the treatment on the selected channel.

**Stop** – This button will stop the treatment on the selected channel.

**Pause** – This button will pause the treatment on the selected channel.

**Operating Channels** – Model 2S of the Intelect® Legend Series Stim provides two channels or electrical stimulation, while Model 4S provides four channels.

**Stimulation Output Channels** – The lead wires connect to these ports.
NOMENCLATURE

Intelect Legend Series Stim 2S Parameter Display and User Panel
Intelect® Legend Series Stim

NOMENCLATURE

Intelect Stim 4S Parameter Display and User Panel
## SPECIFICATIONS

### Stimulator Output Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Interferential</th>
<th>Premodulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td>Electrodes</td>
<td>Electrodes</td>
</tr>
<tr>
<td>Carrier Frequency</td>
<td>5000 Hz</td>
<td>5000 Hz</td>
</tr>
<tr>
<td>Beat Frequency</td>
<td>0-200 Hz</td>
<td>0-200 Hz</td>
</tr>
<tr>
<td>Scan Mode</td>
<td>On/Off</td>
<td>N/A</td>
</tr>
<tr>
<td>Scan Time</td>
<td>15 sec</td>
<td>N/A</td>
</tr>
<tr>
<td>Sweep Time</td>
<td>15 sec</td>
<td>15 sec</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Ramp Up / Ramp Down</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Cycle Time</td>
<td>15 sec</td>
<td>N/A</td>
</tr>
<tr>
<td>Alternating Time in Seconds</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Polarity</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Amplitude</td>
<td>0-50 mA RMS</td>
<td>0-50 mA RMS</td>
</tr>
<tr>
<td>Voltage (max)</td>
<td>200 Volts</td>
<td>200 Volts</td>
</tr>
<tr>
<td>Treatment Time</td>
<td>1 to 60 min</td>
<td>1 to 60 min</td>
</tr>
</tbody>
</table>

N/A = Not Applicable
# SPECIFICATIONS

**Stimulator Output Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Russian</th>
<th>High Volt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function Mode</td>
<td>Electrodes, Single, Recipr. Co-Contraction</td>
<td>Electrodes, Probes Single</td>
</tr>
<tr>
<td>Carrier Frequency</td>
<td>2500 Hz</td>
<td>N/A</td>
</tr>
<tr>
<td>Pulse Frequency</td>
<td>N/A</td>
<td>10-120 pps</td>
</tr>
<tr>
<td>Burst Frequency</td>
<td>20-100 BPS</td>
<td>N/A</td>
</tr>
<tr>
<td>Phase Duration</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Interphase Interval</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>10-50%</td>
<td>N/A</td>
</tr>
<tr>
<td>Ramp Up / Ramp Down</td>
<td>5, 1, 2, 5 sec</td>
<td>N/A</td>
</tr>
<tr>
<td>Cycle Time</td>
<td>5/5, 10/10, 10/20</td>
<td>5/5, 10/10, 10/20</td>
</tr>
<tr>
<td></td>
<td>4/12, 10/30, 0/50</td>
<td>4/12, 10/30, 0/50</td>
</tr>
<tr>
<td></td>
<td>Continuous</td>
<td>Continuous</td>
</tr>
<tr>
<td>Polarity</td>
<td>N/A</td>
<td>Pos. (+), Neg. (-)</td>
</tr>
<tr>
<td>Amplitude</td>
<td>0-100 mA RMS into 500 ohm load</td>
<td>0-500 mA RMS</td>
</tr>
<tr>
<td>Voltage (max)</td>
<td>200 Volts</td>
<td>0-500 Volts</td>
</tr>
<tr>
<td>Output Current</td>
<td>N/A</td>
<td>0-2500 mA Peak</td>
</tr>
<tr>
<td>Treatment Time</td>
<td>0-60 min</td>
<td>0-60 min</td>
</tr>
</tbody>
</table>

N/A = Not Applicable
Initial Setup Instructions

Remove the Intelect Legend Series Stim unit and any additional items ordered from the carton and inspect for damage that may have occurred during shipment. Check the voltage rating on the serial decal located on the bottom of the unit. Plug the system power supply in to a 100 Volt to 220-240 Volt AC outlet, as required.

**CAUTION**
- DO NOT attempt to use Direct Current (DC).
- DO NOT place unit in a location where the power cord could be tripped over or pulled out during treatment.
- DO NOT attempt to use the unit if it is not properly grounded.

Package Contents

Standard Accessories

The following accessories are included with your Intelect Legend Series Stim:

**Legend Stim 2S**

- 12213  Lead, 120"
- 28393  CD User Manual

**Legend Stim 4S**

- 12213  Lead, 120"
- 12214  Lead, 120"
- 28393  CD User Manual

Optional Accessories

The following is a list of optional accessories available for the Intelect Legend Series Stim:

- 79977  High Volt Probe Kit
- 78253  Electrodes, Carbonflex, 3" Round, Red
- 78252  Electrodes, Carbonflex, 3" Round, Black
- 10648  Nylatex, 2 1/2" x 24", Sewn
- 10832  Strap, Nylatex, Long 2-1/2"x 48"
- 10648  Strap, Nylatex, Medium, 2-1/2"x 24"
- 10828  Strap, Nylatex, Short, 2-1/2"x 18"
Pain Management

The management of post-traumatic, post-operative or chronic intractable pain associated with many areas of the body can be a difficult task. Models 2S and 4S of the Intelect Legend Series Stim provide two waveforms and many parameter settings to manage pain.

Two waveforms are available for Pain Management therapy: Interferential and Premodulated.

Interferential

The Interferential waveform consists of two channels, each with a sinusoidal waveform; one of fixed frequency and one of variable frequency.

When the four electrodes are positioned so that the two channels cross each other, the two waveforms mix within the tissue to produce a train of pulses whose frequencies and amplitude are dependent on the sweep mode, beat frequency and amplitude settings, respectively. Press the Interferential button to select this waveform.

Ch. Select controls the method for setting amplitude. The Both Channels mode changes intensity equally. The Channel 1 option changes ONLY channel one and the Channel 2 option ONLY changes channel two. This is helpful when you need to balance the output between channels.

When you highlight Amplitude Modulation and press the ENTER button, 3 options are displayed. They are 40% Scan (default), 100% Scan and Static (no scan).

Scan Percentage is the percentage of decrease from the maximum amplitude. Scan is amplitude modulation, expressed as a percentage of the amplitude. The rhythmical varying of the amplitude of each channel produces the perceived movement of the Interferential field.
When you highlight **Beat Frequency** and press the ENTER button, 5 options are displayed. They are 1-10 Hz, 80-150 Hz (default), 1-150 Hz, Variable and Fixed.

The **Variable** option allows you to select a Low Beat frequency from 1-200 Hz and a High Beat frequency from 1-200 Hz. To make changes in the Variable frequency, highlight **Variable** and press the ENTER button. To change the Beat Low frequency, use the **DOWN** arrow to highlight Beat Low and press ENTER. Use the **UP/DOWN** arrows to adjust the frequency. Press ENTER to accept.

**Beat Low** describes the lowest frequency in the range of a sweep mode. For example when using a sweep of 80-150 Hz, 80 Hz is the lowest frequency.

**Beat High** describes the highest frequency in the range of a sweep mode. For example when using a sweep of 80-150 Hz, 150 Hz is the highest frequency.
**OPERATION**

The **Fixed Option**, allows you to select a fixed frequency from 1-200 Hz. To make changes to the Fixed frequency, highlight **FIXED** and press **ENTER**. Use the **UP/DOWN** arrows to adjust frequency. Press **ENTER** to accept.

<table>
<thead>
<tr>
<th>Ch1-2: IFC</th>
<th>Ch1-2: IFC</th>
<th>Ch1-2: IFC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch. Select</td>
<td>1-10 Hz</td>
<td>Ch. Select</td>
</tr>
<tr>
<td></td>
<td>80-150 Hz</td>
<td>Amp. Mod.</td>
</tr>
<tr>
<td>Beat Freq.</td>
<td>1-150 Hz</td>
<td>Beat Freq.</td>
</tr>
<tr>
<td>Beat Low</td>
<td>Variable</td>
<td>Beat Low</td>
</tr>
<tr>
<td>Beat High</td>
<td>Fixed</td>
<td>Beat High</td>
</tr>
<tr>
<td>Enter-Accept Option</td>
<td>Start-Begin Treatment</td>
<td>Enter-MODIFY</td>
</tr>
</tbody>
</table>

**Beat Frequency**  |  **Beat Low**  |  **Fixed Option**
**Premodulated**

Premodulated is an amplitude modulated sine wave. This waveform is similar to the beat frequency created by Interferential current. In some cases, Premodulated therapy provides a good alternative for Interferential treatment especially when treating areas of the body where four electrodes cannot be utilized.

**Cycle Time** parameter controls the on/off cycle time of the current. There are 2 available options, Continuous (default) and 5/5.

When you highlight **Beat Frequency** and press the **ENTER** button, 5 options are displayed. They are 1-10 Hz, 80-150 Hz (default), 1-150 Hz, Variable and Fixed.

The **Variable** option allows you to select a Low Beat frequency from 1-200 Hz and a High Beat frequency from 1-200 Hz. To make changes in the Variable frequency, highlight **VARIABLE** and press the **ENTER** button. To change the Beat Low frequency, use the **DOWN** arrow to highlight Beat Low and press **ENTER**. Use the **UP/DOWN** arrows to adjust the frequency. Press **ENTER** to accept.

**Beat Low** describes the lowest frequency in the range of a sweep mode. For example when using a sweep of 80-150 Hz, 80 Hz is the lowest frequency.

**Beat High** describes the highest frequency in the range of a sweep mode. For example when using a sweep of 80-150 Hz, 150 Hz is the highest frequency.

The **Fixed Option** allows you to select a fixed frequency from 1-200 Hz. To make changes to the Fixed frequency, highlight **FIXED** and press **ENTER**. Use the **UP/DOWN** arrows to adjust frequency. Press **ENTER** to accept.
Muscle Contraction

Two waveforms are available for muscle contraction therapy; Twin-Peak High Volt and Russian. The appropriate selection of a waveform for relaxing muscle spasms, increasing local circulation, re-educating muscles that have atrophied from disuse or injury, or to maintain or improve joint range of motion can be difficult. Both models 2S and 4S of the Intelect Legend Series Stim provide the needed waveforms to address these clinical problems.

High Volt

High Volt stimulation has output ranges between 300 and 500 volts. True Twin-Peak High Volt is designed to deliver very short-duration pulses, which are very low in pulse charge. High Volt is available through channel 2 and 4 on the model 4S and channel 2 on the model 2S.

Method gives you the option of delivering High Volt to the patient either by Pads (default) or Probe application.

Polarity of the active electrode can be changed from Positive (default) to Negative by selecting POLARITY and pressing the ENTER button. When Positive (default) polarity is selected, the Red leadwire is positive polarity and the Black leadwire is negative polarity. IF YOU SELECT NEGATIVE POLARITY, the Red leadwire becomes negative polarity and the Black leadwire becomes positive polarity.

Cycle Time parameter controls the on/off cycle time of the current. There are 7 available options: 5/5, 10/10, 10/20, 4/12, 10/30, 10/50 and Continuous (default).
**OPERATION**

**Sweep** is frequency modulation of the High Volt current. When you select **Sweep** and press the **ENTER** button, 4 options are displayed. They are Continuous (default at 100 pps), 1-10 Hz, 80-150 Hz and 1-150 Hz. The Continuous option allows you to select a continuous fixed frequency from 1-120 pps.

**Frequency** is the number of pulses per second of the waveform. To change the Frequency select **Frequency** and press **ENTER**, then use the **up** or **down** arrows to change the frequency, from 1-120 pps.

<table>
<thead>
<tr>
<th>Ch2: High Volt</th>
<th>0.5 sec.</th>
<th>1 sec.</th>
<th>2 sec.</th>
<th>5 sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method</td>
<td></td>
<td>Polarity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cycle Time</td>
<td></td>
<td>Sweep</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td></td>
<td>Ramp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Ramp** controls the amount of time required to bring the stimulation up to the selected amplitude. When you select **Ramp** and press **ENTER**, 4 options are displayed. They are 0.5 seconds, 1 second, 2 seconds (default) and 5 seconds.

**Display** provides two options of viewing output. The options are Voltage (default) and Peak Current. The ability to assess peak current can help determine tissue response, and an indication of impedance to current at the electrode skin interface.
**OPERATION**

### Russian

The Russian current is a 2,500 Hz sinusoidal carrier wave, interrupted to create pulse trains or "bursts." The number of bursts per second is determined by the burst frequency and the length of the bursts is determined by the duty cycle.

**Mode** provides three methods of treatment including Single channel application, Reciprocal application where stimulation alternates between agonists and antagonists and Co-Contract where the timing of stimulation can be coordinated through two channels to simultaneously co-contract agonist and antagonist or differing sections of a larger muscle group.

**Cycle Time** parameter controls the on/off cycle time of the current. There are 7 available options: 5/5, 10/10, 10/20, 4/12, 10/30, 10/50 (default) and Continuous.

The **Burst Frequency** is the number of bursts per second (bps) and the available range is 20 bps to 100 bps.

**Ramp** controls the amount of time required to bring the stimulation up to the selected amplitude. When you press the Ramp button it will toggle between .5 seconds, 1 second, 2 seconds (default) and 5 seconds.

**Duty Cycle** is the ratio of on time to total time of the burst and is expressed as a percentage. The options are 10%, 20%, 30%, 40% and 50% (default).
Miscellaneous

To Change Presets
• Select and modify desired parameter(s).
• Press and hold the PAUSE button, then press the ENTER button.

To Change LCD Screen Contrast:
• Press and hold the MAIN MENU button.
• Modify contrast by using the POWER/INTENSITY buttons.

HAND HELD PROBE (Optional)

HIGH VOLT Probe
The High Volt probe is used to deliver stimulation manually. Select the High Volt waveform then simply plug the Black lead wire into the connector of the Probe. The Red lead wire from the same channel should be attached to an electrode and placed near the treatment site. The default polarity for High Volt is positive. When using this setting, the Red lead is positive and the Black lead is negative.
• Select the parameters you wish to change then press the start button to begin treatment.

NOTE: Place the ground electrode as close to the treatment site as possible where it will not interfere with placement of the active electrode; for example, do not place the ground electrode on the leg if you are treating the arm.
User Maintenance

To clean, turn unit off and unplug the power supply. Clean the unit with a damp cloth. Do not use abrasive cleaners. A small amount of mild household detergent may be used, if desired.

Between patient uses, patient applied parts should be wiped clean with a clean damp cloth, then use another clean cloth to clean with a hospital grade germicide. Follow germicide manufacturer directions. Some highly concentrated germicide mixtures could damage the product if not diluted in accordance with directions of the germicide manufacturer.

Technical Maintenance

No attempt should be made to disassemble the unit. Maintenance and all repairs should be made by authorized personnel only. The manufacturer will not be held responsible for the results of maintenance or repairs by unauthorized persons.

To fully maintain compliance with Federal Regulation Title 21 (21 CFR), this unit must be recalibrated annually. It is recommended that all Chattanooga ultrasound products be returned to the factory or an authorized servicing dealer for repairs or recalibration. It is also recommended after the replacement or repair of any major component.

The following items should be checked at least monthly to ensure proper operation of this unit:

1. Power cord and plug: Check to make sure the cord is not frayed, kinked or does not have torn or cut insulation.
2. Lead Wires: Check that the cables are not frayed, kinked or do not have torn or cut insulation.

EU Directive on Waste Electrical and Electronic Equipment (WEEE) ensures that product is appropriately disposed of or recycled at the end of its life.
WARRANTY

DJO, LLC ("Company"), warrants that the Intelect Legend Series Stim ("Product") is free of defects in material and workmanship. This warranty shall remain in effect for two years (24 months) from the date of original consumer purchase. If this Product fails to function during the two year warranty period due to a defect in material or workmanship, at the Company's option, the Company or the selling dealer will repair or replace this Product without charge within a period of thirty days from the date on which the Product is returned to the Company or the dealer.

All repairs to the Product must be performed by a service center certified by the Company. Any modifications or repairs performed by unauthorized centers or groups will void this warranty.

The warranty period for accessories is 90 days. Accessories include Lead Wires, Electrodes, and Nylatex®.

This warranty does not cover:

Replacement parts or labor furnished by anyone other than the Company, the selling dealer, or a service technician certified by the Company.

Defects or damage caused by labor furnished by someone other than Company, the selling dealer, or a certified Company service technician.

Any malfunction or failure in the Product caused by product misuse, including, but not limited to, the failure to provide reasonable and required maintenance or any use that is inconsistent with the Product User's Manual.

COMPANY SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some locations do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

To obtain service from Company or the selling dealer under this warranty:

1. A written claim must be made within the warranty period to the Company or the selling dealer. Written claims made to the Company should be sent to:

   DJO, LLC
   1430 Decision St
   Vista, CA  92081 USA
   T: 1-800-592-7329  USA
   T: 1-317-406-2209
   F: 1-317-406-2014

   and

2. The Product must be returned to the Company or the selling dealer by the owner.

This warranty gives you specific legal rights and you may also have other rights which vary from location to location.

The Company does not authorize any person or representative to create for it any other obligation or liability in connection with the sale of the Product. Any representation or agreement not contained in the warranty shall be void and of no effect.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.