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I. INTRODUCTION

1.1 General information:
This interferential (IFC) device is a lightweight and portable medical device which can help to reduce pain and discomfort. It utilizes the low electric-current to stimulate muscle nerves to achieve the symptomatic relief of chronic intractable pain, post-traumatic pain, and post-surgical pain.

1.2 Cautions
Federal law (USA) restricts this device to sale by or on the order of practitioners licensed by the State in which they practice to use or order the use of the device.

1.3 Indications for use:
This device is used in symptomatic relief of chronic intractable pain, post-traumatic and post-surgical pain.

1.4 Warnings:
1.4.1 The long-term effects of chronic electrical stimulation are unknown.
1.4.2 Stimulation should not be applied over the carotid sinus nerves, particularly in patients with a known sensitivity to the carotid sinus reflex.
1.4.3 Stimulation should not be applied over the 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.
1.4.4 Stimulation should not be applied transthoracically in that the introduction of electrical current into the heart may cause cardiac arrhythmias.

1.5 Precautions:
1.5.1 Caution should be used for patients with suspected or diagnosed heart problems.
1.5.2 Caution should be used for patients with suspected or diagnosed epilepsy.
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1.4.4 Stimulation should not be applied transthoracically in that the introduction of electrical current into the heart may cause cardiac arrhythmias.

1.4.5 Stimulation should not be applied over swollen, infected, or inflamed areas or skin eruptions, e.g., phlebitis, thrombophlebitis, varicose veins, etc.
1.4.6 Stimulation should not be applied over, or in proximity to, cancerous lesions.
1.4.7 For external use only.
1.4.8 Do not use IFC on the eye area.
1.4.9 This device should be used only under the continued supervision of a licensed medical practitioner.
1.4.10 Safety of IFC devices for use during pregnancy or delivery has not been established.
1.4.11 Electronic equipment such as ECG monitors and ECG alarms may not operate properly when IFC is in use.
1.4.12 Apply the electrodes to clean, dry, and unbroken skin only.
1.4.13 This device should not be used while driving, operating machinery, or during any activity in which involuntary muscle contractions may put the user at undue risk of injury.
1.4.14 This device should be kept out of the reach of children.
1.4.15 Keep electrodes separate during treatment. Electrodes in contact with each other could result in improper stimulation or skin burns.

1.5 Precautions:
1.5.1 Caution should be used for patients with suspected or diagnosed heart problems.
1.5.2 Caution should be used for patients with suspected or diagnosed epilepsy.
1.3 Caution should be used in the presence of the following:
(a) When there is a tendency to hemorrhage following acute trauma or fracture.
(b) Following recent surgical procedures when muscle contraction may disrupt the healing process.
(c) Over the menstruating or pregnant uterus.
(d) Over areas of the skin which lack normal sensation.

1.4 Some patients may experience skin irritation or hypersensitivity due to the electrical stimulation or electrical conductive medium. The irritation can usually be reduced by using an alternate conductive medium, or alternate electrode placement.

1.5 Electrode placement and stimulation settings should be based on the guidance of the prescribing practitioner.

1.6 This device should be used only with the leads and electrodes recommended for use by the manufacturer.

1.7 Isolated cases of skin irritation may occur at the site of the electrode placement following long-term application.

1.8 Effectiveness is highly dependent upon patient selection by a person qualified in the management of pain patients.

1.9 If the stimulation levels are uncomfortable or become uncomfortable, reduce the stimulation amplitude to a comfortable level and contact your physician if problems persist.

1.6 Adverse Reactions:
1.6.1 Possible skin irritation or electrode burn under the electrodes may occur.
1.6.2 Possible allergic skin reaction to tape or gel may occur.

2. PRODUCT DESCRIPTIONS

2.1 Front and Rear panel:

--- Diagram of the device ---
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### 2. PRODUCT DESCRIPTIONS

#### 2.1 Front and Rear panel:

**Top View**
- Low Battery Indicator Light
- Power Indicator Light
- Rate Control
- Amplitude Control

**Front View**
- Mode Selector
- Electrode Number Selector
- Adaptor Receptacle

**Lateral View**
- Channel 1 Output Receptacle
- Channel 2 Output Receptacle

**Back View**
- Rate Control
- Amplitude Control
- Clip

**Slide Cover**
Slide Cover:
A panel covers the controls. Your medical professional may ask to set these controls for you and request you leave the cover in place.

Amplitude Control:
It controls the "INTENSITY" level of stimulating pulses. The control located at the right top of the unit regulates the amplitude, or intensity, of the stimulation and is the ON/OFF CONTROL. The power indicator will light up with green color when the unit is working.

Caution: If the stimulation levels are uncomfortable or become uncomfortable, reduce the stimulation intensity to a comfortable level and contact your physician if problems persist.

Rate Control
Adjust Frequency from 1 Hz to 150 Hz by turning the control. The control is located at the left top of the unit.

Electrode Switch
To select for using two electrode pads or four electrode pads.

Mode Selector
Set C, 1/1, 8/8, 10/10 mode

Adaptor Receptacle
You also can use adaptor instead of battery. Insert adaptor plug into the adaptor receptacle to be used. Whenever you use adaptor, the battery power supply will be cut off automatically.

The specification of adaptor
Input: 120 Volts AC, 60Hz, 7W
Output: 9 Volts AC, 300mA

Battery compartment
9 Voltage battery- 1 pc
Slide Cover:
A panel covers the controls. Your medical professional may ask to set these controls for you and request you leave the cover in place.

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Rate Control
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Electrode Switch
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Input: 120 Volts AC, 60Hz, 7W
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Battery compartment
9 Voltage battery- 1 pc
3. STIMULATION MODES

The mode switch offers four stimulation modes. The mode switch is located under the front slide cover and you can shift the switch to adjust the mode. Be sure that when adjusting these stimulation modes, the intensity (Amplitude) output controls are set to the minimum output positions.

3.1 C (Continuous):
In the "C" (Continue) mode, there is no change in the pulse rate. When set at the other modes, the interference frequency changes over time. For example, when the frequency control was set at 100Hz, the interference frequency would shift repeatedly from -25% to +55%, that is, from 75Hz to 155Hz.

3.2 1/1
When set at "1/1" with the frequency control set at 100Hz, the interference frequency would be at 75Hz for 1 second, then shift abruptly to 155Hz for 1 second, then back to 75Hz. The pattern will be repeated as long as the mode selector switch is set in the "1/1" mode.

3.3 8/8
The option "8/8" is identical to "1/1", except that each interference frequency value (75Hz to 155Hz in the above example) is held for 8 seconds.

3.4 10/10
The option "10/10" works from the -25% value to the +55% value gradually instead of rapidly. For example, when the frequency control was set at 100, the device will sweep gradually from 75Hz to 155Hz over a 10 second period, then from 155Hz to 75Hz during the next 10 seconds.
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4. INSTRUCTIONS FOR USE

NOTE: Always read this instruction manual before use.

PREPARATION FOR USE

4.1 Check Battery:
Insert a fresh 9V alkaline or rechargeable battery into the battery compartment. Make sure that you are installing the battery properly. The battery is inserted in the casing on the foot of the stimulator unit.

BE SURE TO MATCH THE POSITIVE AND NEGATIVE ENDS OF THE BATTERY TO THE MARKINGS IN THE BATTERY COMPARTMENT OF UNIT.

CONNECTING THE STIMULATOR

4.2 Connect electrodes to lead wires:
Insert the lead wire connector into electrodes connector (standard 0.08 inch female connection).

MAKE SURE THAT NO BARE METAL OF THE PINS IS EXPOSED
Caution: Always use the electrodes with the requirements of the EN60601-1 and EN60601-2, such as with CE mark, or which are legally marketed in the US under 510(K) procedure.

4.3 Connect lead wires to unit:
Before proceeding to this step, be sure the unit is completely turned OFF. Holding the insulated portion of the lead wire connector, insert the angled-"L" plug into the receptacle on the right side of the main unit. Ensure the lead wires are inserted correctly. The unit has two output receptacles. You may choose to use one channel with one pair of lead wires or both channels with two pairs of lead wires.
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4.4 Place electrodes on skin:
Apply electrodes to the exact site indicated by your physician following the instruction included with the electrodes labeling. Before applying electrodes, be sure the skin surface over which electrodes are placed is thoroughly cleaned and dried. Make sure the electrodes are placed firmly to skin and make good contact between the skin and the electrodes. Place the electrodes over the skin; attach them properly, firmly and evenly.

ADJUSTING THE CONTROLS

4.5 Select the electrode numbers
Shift to the left when applying one pair of electrodes (the “two electrodes” position). Shift the switch to the right when applying two pairs of electrodes (the “four electrodes” position). No stimulation is delivered from “Channel 1” when one pair of electrodes is utilized and the electrode switch is set in the “two electrodes” position.

4.6 Select the mode:
Shift “MODE” switch to set the stimulation mode recommended by your physician or therapist. For details about stimulating sequences, refer to Sec. 3 “Stimulation Modes”. "

4.7 Adjust the Rate:
The rate is adjustable 1~150Hz. Turn Rate Control to adjust Rate to the setting recommended by your medical professional.

4.8 Adjust Channel Amplitude:
Turn Amplitude knob clockwise. Slowly turn the Amplitude control until you reach the setting recommended by your prescribing medical practitioner.

Caution: If the stimulation levels are uncomfortable or become uncomfortable, reduce the stimulation intensity to a comfortable level and contact your physician if problems persist.

4.9 Turn Unit Off:
Turn Channel Amplitude control to OFF. Unplug the electrode lead wires, grasping them by the plug, not the cord. If treatment will be resumed shortly, the electrodes may be left on the skin. When the electrodes are removed, clean the skin thoroughly with mild soap and water. If there is skin irritation, consult your medical professional.
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CARE AND MAINTENANCE

4.10 Portability:
Your unit is portable and may be clipped to a belt, shirt pocket, bra or other clothing.

4.11 Battery:
To replace the battery, open the lid cover and extract the battery. Replace it with a 9 V alkaline or similar rechargeable battery. Make sure you insert the battery correctly.

4.12 Care of Electrodes:
To avoid skin irritation and ensure good contact with skin, clean silicone rubber electrodes with soap and water frequently. The electrodes must be dried completely before using.

★ If you are using self-adhesive electrodes, disregard this procedure.
★ Always use the electrodes with the requirements of the EN60601-1 and EN60601-2, such as with CE mark, or which are legally marketed in the US under 510(k) procedure.

4.13 Care of Electrode cords:
Clean the electrode cords by wiping them with damp cloth. Coating them lightly with talcum powder will reduce tangles and prolong the life.
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5. HANDLING AND STORAGE

Keep this device in the carrying case and store at room temperature.

6. SPECIFICATION

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulse Amplitude</td>
<td>0-32 mA 0-16 volts, adjustable (at 500 ohm load)</td>
</tr>
<tr>
<td>Carrier Frequency (Hz)</td>
<td>4000</td>
</tr>
<tr>
<td>Interference Frequency (Hz)</td>
<td>4001-4150</td>
</tr>
<tr>
<td>Difference Frequency (Hz)</td>
<td>1-150</td>
</tr>
<tr>
<td>Pulse Width</td>
<td>125 microsecond/phase</td>
</tr>
<tr>
<td>Waveform</td>
<td>Symmetric biphasic square pulse</td>
</tr>
<tr>
<td>Frequency Shifts</td>
<td>1/1 abrupt, Continuous, 8/8 abrupt, 10/10 ramped</td>
</tr>
<tr>
<td>Power Supply</td>
<td>9V DC square shape battery</td>
</tr>
<tr>
<td>Size (D x W x H)</td>
<td>1.3” x 2.3” x 3.7” (33 mm x 64 mm x 94 mm)</td>
</tr>
<tr>
<td>Weight (including battery)</td>
<td>4.7 oz (134 g)</td>
</tr>
<tr>
<td>Low Battery Indication</td>
<td>Yes</td>
</tr>
<tr>
<td>Safety Standard</td>
<td>EN 60601-1 EN 60601-1-2 IEC 60601-2-10</td>
</tr>
<tr>
<td>Operation Ambient Temp Range</td>
<td>50 – 95°F (10 – 35°C)</td>
</tr>
<tr>
<td>Operation Ambient humidity Range</td>
<td>20 – 90% RH</td>
</tr>
<tr>
<td>Storage &amp; Transportation Temp Range</td>
<td>32 – 158°F (0 – 70°C)</td>
</tr>
<tr>
<td>Storage &amp; Transportation Humidity Range</td>
<td>20 – 90% RH</td>
</tr>
</tbody>
</table>

*All values have ± 10% tolerance.

7. ACCESSORIES

Self-Adhesive Electrodes | 4 PCS. |
9 V Battery | 1 PC. |
Lead Wires | 2 PCS. |
Instruction Manual | 1 PC. |
AC Adapter | 1 PC. |
5. HANDLING AND STORAGE

Keep this device in the carrying case and store at room temperature.

6. SPECIFICATION

| Pulse Amplitude 0~32 mA = 0~16 volts, adjustable (at 500 ohm load) |
| Carrier Frequency (Hz) 4000 |
| Interference Frequency (Hz) 4001~4150 |
| Difference Frequency (Hz) 1~150 |
| Pulse Width 125 microsecond/phase |
| Waveform Symmetric biphasic square pulse |
| Frequency Shifts 1/1 abrupt, Continuous, 8/8 abrupt, 10/10 ramped |
| Power Supply 9V DC square shape battery |
| Size (D x W x H) 1.3” x 2.5” x 3.7” (33 mm x 64 mm x 94 mm) |
| Weight (including battery) 4.7 oz (134 g) |
| Low Battery Indication Yes |
| Safety Standard EN 60601-1 EN 60601-1-2 IEC 60601-2-10 |
| Operation Ambient Temp Range 50 ~ 95ºF (10 ~ 35ºC) |
| Operation Ambient humidity Range 20 ~ 90% RH |
| Storage & Transportation Temp Range 32 ~ 158ºF (0 ~ 70ºC) |
| Storage & Transportation Humidity Range 20 ~ 90% RH |

*All values have ± 10% tolerance.

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8. TROUBLESHOOTING

If your unit does not seem to operate correctly, refer to the chart below to determine what may be wrong. If none of these measures correct the problem, the unit should be serviced.

<table>
<thead>
<tr>
<th>The power indicator lights up, but unit does not function properly.</th>
<th>*“On” and “Battery Light” are dim.</th>
<th>*None of indicators light up.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Check all control settings. Are they set to values prescribed by your medical professional?</td>
<td>1. Replace battery with a new one.</td>
<td>1. Replace battery with a new one.</td>
</tr>
<tr>
<td>2. Are electrodes in proper position?</td>
<td>3. Check lead wires. Be sure all connectors are firmly sealed.</td>
<td>4. Replace cord set with another to check for broken wires.</td>
</tr>
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</table>

9. WARRANTY

\* Unit: One year (12 months) from the date of the original consumer purchase.  
\* Accessories (consisting of lead wire, AC adapter, electrodes, carrying case, and belt clip): 90 days from the date of original consumer purchase.

To obtain service from Chattanooga Group or the selling dealer under this warranty, a written claim must be made within the warranty period to Chattanooga Group or the selling dealer.

Chattanooga Group shall not be held liable in any event for incidental or consequential damages. Some states do not allow exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.
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