

# SPECIFICATIONS

## STIMULATOR OUTPUT PARAMETERS

Parameter	Interferential	Premod	Russian	High Volt
Carrier Freq.	5000 Hz	5000 Hz	2500 Hz	
Beat, Burst, or Pulse Freq.	0-200	0-200	20-100	1-120
Output Mode	Pads	Pads	Pads	Pads/Probe
Sweep Time	15 sec.			
Scan Percentage	40%, 100%			
Duty Cycle			10, 20, 30, 40, 50%	
Ramp Up/Down Time			0.5-5.0 sec.	0.5-5.0 sec.
Cycle Time		5/5	5/5 10/10 10/20 4/12 10/30 10/50 Continuous	5/5 10/10 10/20 4/12 10/30 10/50 Continuous
Polarity				+, -
Amplitude	0-50 mA RMS	0-50 mA RMS	0-100 mA RMS	0-500 V Peak
Treatment Time (max. min.)	60	60	60	60
Available on Channels	1,2	1,2	1,2	1,2
Electrical Class:	Class 1			
Electrical Type:	Type BF			

## ULTRASOUND SPECIFICATIONS

Frequencies:	1.0 MHz or 3.3 MHz
Duty Cycle:	100% (continuous), Pulsed 50%, 20%, 10%
Power in Watts:	0-20 (10 cm <sup>2</sup> ), 0-10 (5 cm <sup>2</sup> ) 0-4 (2 cm <sup>2</sup> )
BNR:	< 5.0:1 Maximum, Collimating
ERA:	10 cm <sup>2</sup> Crystal (8.5 cm <sup>2</sup> ± 1.5) 5 cm <sup>2</sup> Crystal (4.0 cm <sup>2</sup> ± 1.0) 2 cm <sup>2</sup> Crystal (1.8 cm <sup>2</sup> ± 0.5-0.4)

## POWER REQUIREMENTS

**Intellect Combo, Ultrasound and Stim Units**  
11-17 VDC, 3A (Ultrasound) and 11-17 VDC, 4A (Stim and Combo)  
External Power Supply: 90-240 VAC, 50/60 Hz, 50 W

## SIZE AND WEIGHT

Size	Weight
Intellect 2C and 4C Combo: 12" W x 14" D x 4.75" H	6.0 lbs.
Intellect Stim: 8.5" W x 11" D x 4" H	4.0 lbs.
Intellect Ultrasound: 8.5" W x 11" D x 4" H	3.5 lbs.

## ORDERING INFORMATION

**Electrotherapy and Ultrasound Units**

Intellect Legend 4 Channel Combo ..... 7550  
Intellect Legend 2 Channel Combo ..... INTCB  
Intellect Legend Stimulator ..... INT002  
Intellect Legend Ultrasound ..... INT001

**Standard Accessories**

Nylatex Wrap, 2.5" x 24" (2 per pkg.) ..... 10648  
Conductor Gel, 9 oz. .... 4248  
3" Round Rubber Electrode, Black ..... 72852  
3" Round Rubber Electrode, Red ..... 72853  
Lead Wires for 2C Combo, Channels 1 and 2, Red/Black ..... 12213  
Lead Wires for 4C Combo, Channels 3 and 4, Red/Black (includes 12213) ... 12214  
Power Supply ..... 71585  
Power Cord ..... 78121  
5 cm<sup>2</sup> Ultrasound Applicator ..... 78047

**Optional Accessories**

High Volt Probe Kit ..... 79977  
10 cm<sup>2</sup> Ultrasound Applicator ..... 78046  
2 cm<sup>2</sup> Ultrasound Applicator ..... 78048  
Patient Control Center ..... 77975

# INTELECT<sup>®</sup>

## LEGEND SERIES



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ISO 9001/ISO 13485 CERTIFIED

Specifications subject to change

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# INTELECT® LEGEND SERIES

SLEEK DESIGN, TOUCH CONTROLS AND AFFORDABLE PRICING

## INTELECT® LEGEND COMBO


Models 2C and 4C

We combined all the great features of our industry standard Intelect Legend Stim and our Intelect Legend Ultrasound into the new Intelect Legend Combo.



- **Channels** – Available in 2 and 4 channel models.
- **Multi-Waveform Capability** – With Interferential, Premod, Russian, and High Volt currents, Intelect Legend Combo offers the clinical versatility of many higher priced systems.
- **Tactile Touch Control** – Digital electronics and new user interface design gives you simple tactile touch control of all system parameters.
- **Ergonomic Design and Function** – The innovation of advanced tooling and injection mold technology yield a sleek and ergonomic case and interface that antiquates the traditional knob and metal box design. The user interface design also provides greater ease-of-use, with a simple 1-2-Go format.
- **Clear LCD Display (Legend Combo and Stim Only)** – You'll get clear, crisp LCD control of our 1-2-Go software with the Legend Combo. LCD control simplifies the display of treatment parameters and the navigation of optional settings.
- **Easy As 1-2-Go** – In two steps, you are ready to start therapy.
- **Programmable Start-Up Presets** – All power-up presets can be individually customized to meet the clinician's needs.
- **Dual-Frequency Ultrasound** – The Intelect Legend Combo offers the flexibility of dual frequency control to manage your patient's needs.
- **Ergonomic Applicators** – Our new ergonomic applicator design offers a 20 degree contour in the handgrip. This ergonomic extra will help deliver uniform ultrasound with greater clinician comfort.
- **Electronic Signature™** – This revolutionary feature automatically calibrates the system to any size Intelect Legend applicator.
- **Head Warming** – Gentle pre-treatment warming of the ultrasound head makes contact with the patient more comfortable.

## STIM WAVEFORM DESCRIPTIONS

**Interferential Current** 

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 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.

**Premodulated** 

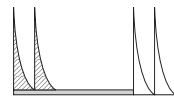
The Premodulated waveform is an amplitude modulated sine wave. This waveform is similar to the beat frequency, or pattern created by Interferential current. In some cases, Premodulated therapy provides a good alternative for Interferential treatment, especially when treating areas of the body where four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

**Russian Current** 

**Medium Frequency Bursted Sine Wave**  
The Russian current is a 2,500 Hz sinusoidal carrier wave, interrupted to create a burst of pulses. The burst frequency sets the number of bursts per second, whereas the duty cycle sets the duration of the burst. Russian current produces strong comfortable muscle contractions having the flexibility for use with large and small muscle groups.

**Twin-Peak High Volt Pulsed Current**

The pulse parameters of the Twin-Peak High Volt current are the factors that allow a great variety of physiologic responses. The important benefit is versatility in clinical application. Examples for clinical use include: relaxation of muscle spasms, prevention or retardation of disuse atrophy, increasing local blood circulation, muscle re-education, and maintaining or increasing range of motion. Unlike currents with a very long phase duration, the very short pulse duration of the Twin-Peak High Volt current creates comfortable stimulation. The very short pulse duration followed by a very long interpulse interval eliminates the formation of any appreciable chemical effects in the stimulated tissue.



## INTELECT® LEGEND STIM

Two-Channel Electrotherapy

Maximum portability and simple operation, with many of the features of our larger clinical stimulators, yet a compact size.



- **Dual-Channel Stimulation** – Features two-channel stimulation with independent intensity control of each channel.
- **Versatile Design** – Functionally designed to allow connection with ultrasound for combination treatments.
- **Digital Control** – Digital electronics and tactile touch control panel provide an accurate and reliable user interface.
- **Large LCD Display** – Clear, accurate and instantaneous backlit display of all treatment formats and session functions presented in a logical format. Display controls are logically grouped for easy operation.

## INTELECT® LEGEND ULTRASOUND

Dual-Frequency Ultrasound

Ideal for the clinician working in a variety of settings: hospital, clinic, home-care, or the training room.



- **Electronic Signature™** – Each applicator contains a microprocessor chip that has in memory the unique characteristics of the ultrasound crystal. This technology assures that the applicator can be utilized with other Intelect Legend units in your facility. In addition, it allows for easy change of dual-frequency applicator size without the need for factory calibration.
- **Dual-Frequency Ultrasound** – Several factors affect the penetration of ultrasound on the target tissues. This creates the need for 1 MHz and 3.3 MHz to achieve a desirable outcome. The Intelect Legend Ultrasound is a full function ultrasound system, complete with two frequencies and four duty cycle selections. The interchangeable applicators are ergonomically designed and are available in three sizes: 2 cm<sup>2</sup>, 5 cm<sup>2</sup> and 10 cm<sup>2</sup>.



## INTELECT® LEGEND SERIES FEATURES

FEATURE	STIM	US	2C and 4C
Interferential	✓		✓
Premodulated	✓		✓
Russian	✓		✓
High Volt	✓		✓
LCD Display	✓		✓
1-2-Go Software	✓	✓	✓
2cm <sup>2</sup> , 5cm <sup>2</sup> and 10cm <sup>2</sup> Applicators Available		✓	✓
LED Display		✓	✓
Ergonomic Applicators		✓	✓
Electronic Signature™		✓	✓
1 and 3.3 MHz		✓	✓
10%, 20%, 50% and Continuous Duty Cycle		✓	✓
Input Jack for Combination Therapy		✓	