



INTELECT[®] **LEGEND 2**

ELECTROTHERAPY SIMPLIFIED



Variable Muscle Stimulation (VMS)





INTELECT® **LEGEND 2**

THE NEXT GENERATION IN ELECTROTHERAPY

The Intellect® Legend 2 is the next generation in physical medicine modalities. Its clever design and intuitive features make Intellect® Legend 2 the choice for today's modern practice.

- Easy to Use
 - The Legend 2 Suggested Protocol Setup (SPS) menu provides suggested electrotherapy settings which means more confidence that your patient is receiving the most effective treatment.
- Patient Satisfaction
 - Chattanooga's proprietary VMS waveform provides stronger muscle contractions and increased patient comfort, especially when compared to using Russian waveform.^{13, 14, 15}
- Better Results for Your Clinic
 - Easy set up leads to reduced treatment times and allows your clinic to be as efficient as possible resulting in a greater ROI for your business.

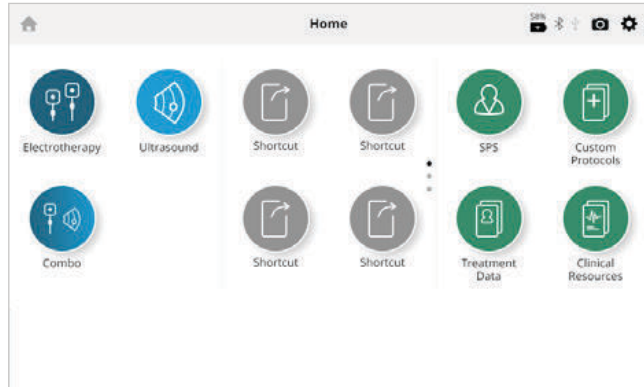


KEY FEATURES - INTERFACE

Intelect® Legend 2 offers the next generation of intuitive and intelligent user interface - designed with the therapist in mind.

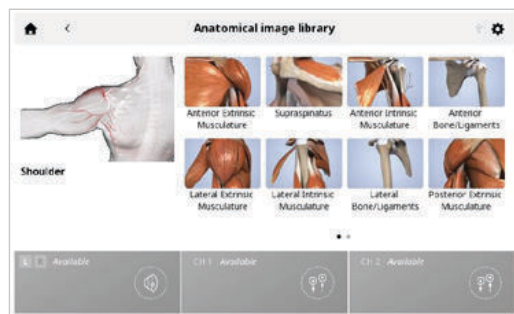
INTELLIGENT INTERFACE

Separated into three sections, the blue section allows complete customization of all waveforms and any parameters. The gray section saves up to 12 shortcuts on the Home screen to start treatments within 2 button pushes. The green section contains the SPS menu, saved protocols and other clinical resources.



HI RESOLUTION ANATOMICAL LIBRARY

Illustrates an array of pathologies allowing simple explanation of conditions and treatment to the patient.



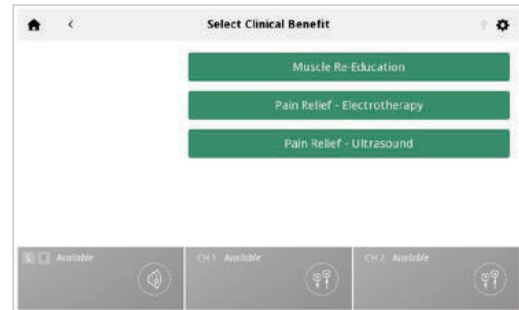
FUTURE PROOF TECHNOLOGY

Intelect® Legend 2 has the ability to easily update software for additional functionality. Free software upgrades and updated product manuals will be made available on chattanoogaarehab.com along with simple instructions on how to perform any upgrades.

SUGGESTED PROTOCOL SETTING

Provides the clinician with suggested parameters for each treatment to help get started with confidence.

The SPS menu allows therapists to set up a treatment by selecting an indication rather than having to select every waveform and parameter.



KEY FEATURES

INNOVATION AND SIMPLICITY THROUGH DESIGN



LARGE GRAPHIC COLOR TOUCH SCREEN

High resolution 7" capacitive touch screen was upgraded to highlight the anatomical library, provide real time treatment progress and clearly display treatment results after a session ends.



NEW ULTRASOUND APPLICATOR

Ergonomic design fit for the hand. Improved coupling detection and monitoring.



MOBILE

Lightweight device with ergonomically designed handle and optional battery. Optional custom carry case available for transporting the device safely and securely.



OPTIONAL CART

Optional cart with magnetic device attachment creates a secure connection between device and cart without the need for any tools during installation.



INDICATIONS

TENS/NMES

- Relaxation of muscle spasms¹
- Prevention or retardation of disuse atrophy²
- Increasing local blood circulation³
- Muscle re-education¹¹
- Maintaining or increasing range of motion⁴
- Immediate postsurgical stimulation of calf muscles to prevent venous thrombosis¹²
- Symptomatic relief or management of chronic, intractable pain⁵
- Post-traumatic acute pain⁶
- Post-surgical acute pain⁷

ULTRASOUND

Relief of pain, muscle spasms and joint contractures that may be associated with conditions such as:

- Adhesive capsulitis⁸
- Bursitis with slight calcification⁹
- Myositis⁹
- Soft tissue injuries¹⁰
- Shortened tendons due to past injuries and scar tissues⁹
- Capsular tightness⁹
- Capsular scarring⁹



CLINICAL INFORMATION

1. Zhou M, Li F, Lu W, Wu J, Pei S. Efficiency of Neuromuscular Electrical Stimulation and Transcutaneous Nerve Stimulation on Hemiplegic Shoulder Pain: A Randomized Controlled Trial. Arch Phys Med Rehabil. 2018 Sep;99(9):1730-1739. doi: 10.1016/j.apmr.2018.04.020. Epub 2018 May 17. PMID: 29777714.; Stein C, Fritsch CG, Robinson C, Sbruzzi G, Plentz RD. Effects of Electrical Stimulation in Spastic Muscles After Stroke: Systematic Review and Meta-Analysis of Randomized Controlled Trials. Stroke. 2015 Aug;46(8):2197-205. doi: 10.1161/STROKEAHA.115.009633. Epub 2015 Jul 14. PMID: 26173724.
2. Toth MJ, Tourville TW, Voigt TB, Choquette RH, Anair BM, Falcone MJ, Failla MJ, Stevens-Lapslaey JE, Endres NK, Slauterbeck JR, Beynon BD. Utility of Neuromuscular Electrical Stimulation to Preserve Quadriceps Muscle Fiber Size and Contractility After Anterior Cruciate Ligament Injuries and Reconstruction: A Randomized, Sham-Controlled, Blinded Trial. Am J Sports Med. 2020 Aug;48(10):2429-2437. doi: 10.1177/0363546520933622. Epub 2020 Jul 6. PMID: 32631074; PMCID: PMC7775613.; Dirks ML, Wall BT, Snijders T, Ottenbros CL, Verdijk LB, van Loon LJ. Neuromuscular electrical stimulation prevents muscle disuse atrophy during leg immobilization in humans. Acta Physiol (Oxf). 2014 Mar;210(3):628-41. doi: 10.1111/apha.12200. Epub 2013 Dec 12. PMID: 24251881.
3. Borne R, Hausswirth C, Bieuzen F. Relationship Between Blood Flow and Performance Recovery: A Randomized, Placebo-Controlled Study. Int J Sports Physiol Perform. 2017 Feb;12(2):152-160. doi: 10.1123/ijspp.2015-0779. Epub 2016 Aug 24. PMID: 27139812.
4. Takla (2018), Sentendreu (2021)
5. Pivovarsky et al. (2021), Yaki et al. (2021), Zhou et al. (2018), Gibson et al. (2019); NICE, Osteoarthritis: care and management Clinical guideline CG177, February 2014
6. 510K Device Clearance Statment
7. Zhu et al. (2017), Elboim (2019), Mahure (2017)
8. Sung JH, Lee JM, Kim JH. The Effectiveness of Ultrasound Deep Heat Therapy for Adhesive Capsulitis: A Systematic Review and Meta-Analysis. Int J Environ Res Public Health. 2022 Feb 7;19(3):1859. doi: 10.3390/ijerph19031859. PMID: 35162881; PMCID: PMC8835494.
9. 510K Device Clearance Statement
10. Kim GW, Won YH, Park SH, Seo JH, Kim DH, Lee HN, Ko MH. Effects of a Newly Developed Therapeutic Deep Heating Device Using High Frequency in Patients with Shoulder Pain and Disability: A Pilot Study. Pain Res Manag. 2019 May 2;2019:8215371. doi: 10.1155/2019/8215371. PMID: 31191789; PMCID: PMC6525801.
11. 510K Device Clearance Statement
12. 510K Device Clearance Statement
13. Bellow, Allen, Biefnes, Grantham, Miglin, and Swartzell, 2018
14. Adams, Harris, Woodard, and Dudley, 1993; Binder-Macleod, Halden, and Jungles, 1995; Gorgey and Dudley, 2008
15. Bowman and Baker, 1985

INTELECT® LEGEND 2 RANGE



2 CHANNEL COMBO

The Intelect® Legend 2 two-channel combo device is a two-channel electrotherapy, ultrasound therapy (1 and 3 MHz) and combo system used with or without an optional cart. Twelve waveforms are included for electrical stimulation: VMS, Interferential, Premodulation, Asymmetric Biphasic, Symmetric Biphasic, High Volt, Microcurrent, Russian, VMS Burst, HAN, Direct Current, VMS FR. This equipment is to be used only under the prescription and supervision of a licensed healthcare professional.



4 CHANNEL COMBO

The Intelect® Legend 2 four-channel combo device is a four-channel electrotherapy, ultrasound therapy (1 and 3 MHz) and combo system used with or without an optional cart. Twelve waveforms are included for electrical stimulation: VMS, Interferential, Premodulation, Asymmetric Biphasic, Symmetric Biphasic, High Volt, Microcurrent, Russian, VMS Burst, HAN, Direct Current, VMS FR. This equipment is to be used only under the prescription and supervision of a licensed healthcare professional.



TECHNICAL INFORMATION

INPUT: 100-240V AC, 1.0 to 0.42A, 50/60 Hz

ELECTRICAL CLASS: Class I

MODE OF OPERATION: Continuous

ELECTRICAL TYPE (DEGREE OF PROTECTION)

ULTRASOUND: .TYPE B

ELECTROTHERAPY: .TYPE BF

ULTRASOUND SPECIFICATIONS

FREQUENCY: 1 MHz; 3 MHz

DUTY CYCLES: 10%, 20%, 50%, Continuous

PULSE REPETITION RATE: 100 Hz

PULSE DURATION: 1 -5 ms

- Max (ON): 5 ms

- Min (OFF): 5 ms



SYSTEM DIMENSIONS & WEIGHT	WIDTH	DEPTH	HEIGHT	WEIGHT (NO BATTERY)
INTELECT® LEGEND 2 HEAD UNIT				
2 CHANNEL COMBO	13.4in	14.0in	5.9in	6.8lbs
4 CHANNEL COMBO	13.4in	14.0in	5.9in	8.2lbs
CART CONFIGURATIONS				
Cart (Safe working load 6.5kg)	18.9in (max)	20.5in (max)	37.8in	22.3lbs
Device on cart	-	-	43.7in	-

US APPLICATOR FREQUENCY	1 cm ²		2cm ²		5cm ²		10cm ²	
	1MHz	3MHz	1MHz	3MHz	1MHz	3MHz	1MHz	3MHz
Effective Radiating Area ERA INTL (cm ²)	1	0.9	1.5	1	2.5	2.7	6	6.8
Max Output power in Continuous mode	2W	1.8W	3W	2W	5W	5.4W	12W	6.8W
Max Output power in Pulsed mode	3W	2.7W (*)	4.5W	3W	7.5W	8.1W	18W	13.6W
Max Amplitude in Continuous mode	2W/cm ²	2W/cm ²	2W/cm ²	2W/cm ²	2W/cm ²	2W/cm ²	2W/cm ²	1W/cm ²
Max Amplitude in Pulsed mode	3W/cm ²	3W/cm ²	3W/cm ²	3W/cm ²	3W/cm ²	3W/cm ²	3W/cm ²	2W/cm ²

Pulsed Biphasic	VMS, VMS Burst, VMS FR, Asymmetrical Biphasic, Symmetrical Biphasic, HAN
Pulsed Monophasic	High Volt, Microcurrent
Direct	Direct Current
Alternating	Interferential, Premodulation, Russian

Chattanooga® also offers online training for their customers. Please contact your Chattanooga® representative for more information.



INTELECT® **LEGEND 2**

INTELECT® LEGEND 2 COMBO STANDARD ACCESSORIES:

PART NUMBER	DESCRIPTION
81-5010	Intellect® Legend 2 Two Channel Combo Set
81-5011	Intellect® Legend 2 Four Channel Combo Set
79967	Carbon Electrodes
42198	Dura-Stick+ 5cm Square Electrodes QTY 4
70010	Stim Lead Wires CH 1&2
70011	Stim Lead Wires CH 3&4 (4CH combo only)
12-10648	Nylatex Strap
15-1062	5cm² Ultrasound Applicator
14679	Power Cord

INTELECT® LEGEND 2 OPTIONAL ACCESSORIES:

15-1136	Intellect® Legend 2 Cart
14-1086	Intellect® Legend 2 Battery
15-0160	1cm² applicator
15-0161	2cm² applicator
15-0163	10cm² applicator
4248-12	Ultrasound Gel (12 Bottles)
79967	6x8 cm Carbon Electrodes (QTY 4)
15-1140	USB drive



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