



# KEY FEATURES INNOVATION AND SIMPLICITY THROUGH DESIGN



## LARGE GRAPHIC COLOR TOUCH SCREEN

High resolution 7" capacitive touch screen for access to intuitive user interface and extensive anatomical library. Suggestions for the placement of electrodes and areas for ultrasound applicator placement are in easy to use and find guidelines. The touch screen also gives real time information as to the progress of the individual treatment and a summary after treatment ends.



## NEW ULTRASOUND APPLICATOR

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

## **ERGONOMIC DESIGN**

New contemporary modern design to fit in any therapy office, but versatile enough with the integral option of the battery to make the device simple and convenient to use in the patients own home.



## MOBILE -

Lightweight device with ergonomically designed handle and optional integral battery, eliminating the need to carry mains wires on home visits. Optional custom carry case available for transporting the device safely and securely. Available early 2020.

## **HOME USE**

Intelect® Mobile 2 was designed to be compliant with IEC 60601-1-11 and can be used for treatment in the patients own home as well as the therapist office, giving flexibility and versatility for both clinician and patient alike.

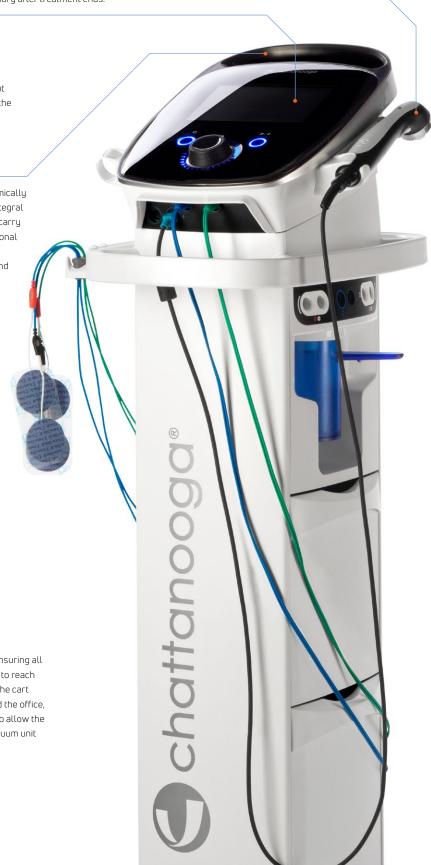
## **MEMORY**

The Intelect Mobile 2 has built in suggested protocols based on currently available clinical evidence, the user can also write and store custom protocols which can be stored with a specific ID or treatment.



## OPTIONAL CART (OPTIONAL VACUUM UNIT)

Optional cart with storage drawers ensuring all accessories are convenient and easy to reach from the device, large wheels allow the cart and device to be moved easily around the office, add in the option of the vacuum unit to allow the use of vacuum in electrotherapy. Vacuum unit available early 2020.



## **KEY FEATURES - INTERFACE**

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

## INTELLIGENT INTERFACE

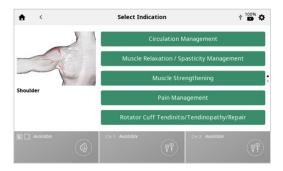
Buttons on the device and connection points for Modality accessories have interactive lights to show the status of the device or port.



## SUGGESTED PROTOCOL SETTING

Assists the user in setting the functions of the device and each therapy, settings are based on current clinical practice.

Suggested protocol settings (SPS) can be modified to produce custom treatment regimens and saved as a custom protocol.



## HI RESOLUTION ANATOMICAL LIBRARY

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



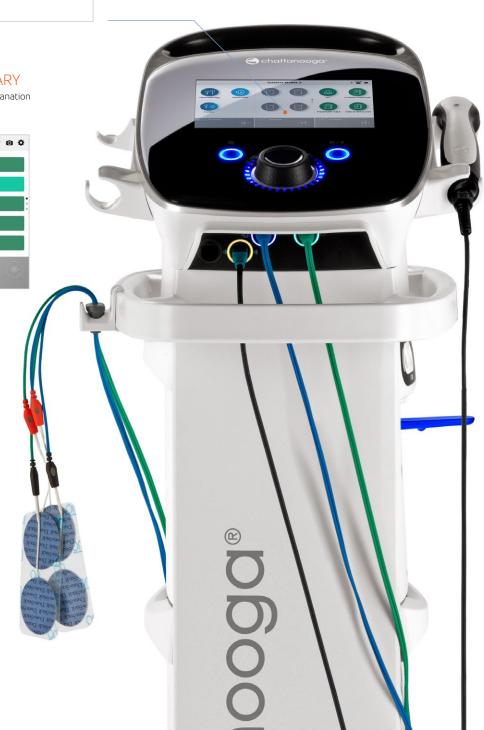
## **FUTURE PROOF TECHNOLOGY**

Intelect Mobile 2 has been designed with the ability of software upgrades allowing additional functionality to be added. The free software upgrades will be made available on the chattanoogarehab.com website along with simple instructions on how to perform any upgrades and access to updated product manuals incorporating any software enhancements to the device.



## BLUE TOOTH CONNECTION

For easy and quick import/export of treatment data and patient history files. Available early 2020.



# INDICATIONS

## **TENS**

- SYMPTOMATIC RELIEF OF CHRONIC PAIN (1)
- MANAGEMENT OF POST-OPERATIVE PAIN (2)

## **NMES**

- MUSCLE RE-EDUCATION (3)
- INCREASING LOCAL BLOOD SUPPLY (4)
- RELAXATION OF MUSCLE SPASMS (5)
- MAINTAINING/INCREASING RANGE OF MOTION (6)

## ULTRASOUND

- RELIEF OF PAIN FROM MUSCLE SPASM (7)
- RELIEF OF PAIN FROM JOINT CONTRACTURE (8)
- RELIEF OF PAIN ASSOCIATED WITH LIGAMENT (9)
- SPRAINS, TENDINITIS AND MUSCLE SPASM (10)

## CLINICAL INFORMATION

- 1. The effectiveness of transcutaneous electrical nerve stimulation in the management of patients with complex regional pain syndrome: A randomized, double-blinded, placebo-controlled prospective study. Bilgili A, Çakır T, Doğan ŞK, Erçalık T, Filiz MB, Toraman F Nov 2016
- 2. Comparison of the Effect of Sensory-Level and Conventional Motor-Level Neuromuscular Electrical Stimulations on Quadriceps Strength After Total Knee Arthroplasty: A Prospective Randomized Single-Blind Trial. Yoshida Y, Ikuno K, Shomoto K.Dec 2017
- 3. Neuromuscular Electrical Stimulation Superimposed on Movement Early after ACL Surgery. Labanca L, Rocchi JE, Laudani L, Guitaldi R, Virgulti A, Mariani PP, Macaluso A. Mar 2018
- 4. A randomised controlled trial of electrostimulation effects on effussion, swelling and pain recovery after anterior cruciate ligament reconstruction: a pilot study. Ediz L, Ceylan MF, Turktas U, Yanmis I, Hiz O Oct 2011
- 5. A promising approach to effectively reduce cramp susceptibility in human muscles: a randomized, controlled clinical trial. Behringer M, Moser M, McCourt M, Montag J, Mester J. Apr 2014
- 6. Effect of electrical stimulation to long head of biceps in reducing gleno humeral subluxation after stroke. Manigandan JB, Ganesh GS, Pattnaik M, Mohanty P.Jan 2014
- 7. Thermal ultrasound decreases tissue stiffness of trigger points in upper trapezius muscles. Draper DO, Mahaffey C, Kaiser D, Eggett D, Jarmin J. Apr 2010
- 8. Overview of Therapeutic Ultrasound Applications and safety considerations. Miller, D., Smith, N., Bailey, M., Czarnota, G., Hynynen, k., & Makin I 2012
- 9. A comparison of the effectiveness of low-, moderate and high dose ultrasound therapy applied in the treatment of myofascial pain syndrome. Modern Rheumatology 24, 2014.
- 10. Efficacy of Therapeutic Ultrasound in Pain and Joint Mobility in Whiplash Traumatic Acute and Subacute Phases. Ruiz-Molinero C, Jimenez-Rejano JJ, Chillon-Martinez R, Suarez-Serrano C, Rebollo-Roldan J, Perez-Cabezas V Sep 2014

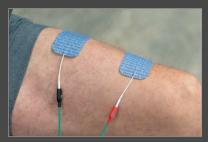
## INTELECT® MOBILE 2 RANGE



## STIM

The Intelect® Mobile 2 **STIM** is an electrotherapy system used with or without an optional cart, allowing for the inclusion of a Vacuum module. The Intelect Mobile 2 stim has available a selection of widely used waveforms allowing the therapist multiple treatment options, these waveforms are easily selected from the user interface and guidelines as to electrode placement are also given for the selected treatment area. This equipment is to be used only under the prescription and supervision of a licensed medical practitioner.







## HITRASOLING

The Intelect Mobile 2 **ULTRASOUND** is an ultrasound therapy system used with or without an optional Cart. The Intelect Mobile 2 Ultrasound offers dual frequency Ultrasound at 1 or 3 MHz, Pulsed or continuous duty cycles (10%, 20%, 50% & 100%). Supplied with a 5cm² ultrasound applicator with additional optional heads available. Guidelines for treatment area are available on the user interface. Coupling detection can be monitored either audibly (set to on as default) or visually by the LED on the back of the applicator, treatment time indicator will stop when head is uncoupled so the of amount of ultrasound treatment delivered during the time period is accurately measured and reproducible. This equipment is to be used only under the prescription and supervision of a licensed medical practitioner.







#### COMBO

The Intelect Mobile 2 **COMBO** is a two-channel electrotherapy, ultrasound therapy and Combo system used with or without an optional Cart, allowing for the inclusion of a Vacuum module. For combo therapy 5 waveforms are included for use: Interferential, VMS, High Volt, Asymmetric biphasic TENS and Symmetric biphasic TENS there is fully functional 1 and 3 MHz ultrasound frequencies and two channels of electrical stimulation output. This equipment is to be used only under the prescription and supervision of a licensed medical practitioner.





## TECHNICAL INFORMATION

INPUT: 100-240V AC, 1.0 to 0.42A, 50/60 Hz ELECTRICAL CLASS: Class II MODE OF OPERATION: Continuous

#### **ELECTRICAL TYPE (DEGREE OF PROTECTION)**

ULTRASOUND: .TYPE BF

ELECTROTHERAPY: .TYPE BF

ELECTROTHERAPY VACUUM: .TYPE BF

ULTRASOUND & ELECTROTHERAPY: .TYPE BF

#### ULTRASOUND SPECIFICATIONS

FREQUENCY: 1 MHz; 3 MHz
DUTY CYCLES: 10%, 20%, 50%, Continuous
PULSE REPETITION RATE: 16, 48, or 100 Hz
PULSE DURATION: 1 - 31.25 ms

- Max (ON): 31.25 ms
- Min (OFF): 5 ms

## **VACUUM SPECIFICATIONS**

#### **POWER**

INPUT: 20-25 Vdc, maximum peak current 4A ELECTRICAL TYPE: TYPE BF

#### **GENERAL CHARACTERISTICS**

VACUUM RANGE: .0 to 600 mbar maximum +/-5% VACUUM MODES: Continuous or Pulsed Continuous 10 setting over vacuum range, 60 mbar per setting, +10 mbar to 10 mbar per setting

SYSTEM DIMENSIONS & WEIGHT	WIDTH	DEPTH	HEIGHT	WEIGHT (NO BATTERY)		
INTELECT MOBILE 2 HEAD UNIT						
СОМВО	34cm	35.5cm	15cm	3.1kg		
ULTRASOUND	34cm	35.5cm	15cm	2.8kg		
STIM	25.5cm	35.5cm	15cm	2.9kg		
CART CONFIGURATIONS						
Cart (Safe working load 6.5kg)	48cm (max)	52cm (max)	96cm	10.1kg		
Cart with vacuum	48cm (max)	52cm (max)	96cm	11.5kg		
Device on cart	-	-	111cm	-		

LILTDACOLIND ADDITIOATOD EDECLIENOV	1 cm <sup>2</sup>		2cm²		5cm²	
ULTRASOUND APPLICATOR FREQUENCY	1MHz	3MHz				
Effective Radiating Area ERA INTL (cm²)	1	0.9	1.5	1	2.5	2.7
Max Output power in Continuous mode	2W	1.8W	3W	2W	5W	5.4W
Max Output power in Pulsed mode	3W	2.7W (*)	4.5W	3W	7.5W	8.1W
Max Amplitude in Continuous mode	2W/cm <sup>2</sup>					
Max Amplitude in Pulsed mode	3W/cm <sup>2</sup>	3W/cm <sup>2</sup>	3W/cm²	3W/cm <sup>2</sup>	3W/cm <sup>2</sup>	3W/cm²



## IFC

(Interferential) Traditional (4 Pole)

## ADVICE ON SIZE AND TYPE OF ELECTRODES TO BE USED IS GIVEN IN DEVICE GUI "TREATMENT GUIDELINES" FEATURE

Interferential Current is a medium frequency waveform. Current is distributed through two channels (four electrodes). The currents cross each other in the body at the area requiring treatment. The two currents interfere with each other at this crossing point, resulting in a modulation of the intensity (the current intensity increases and decreases at a regular frequency).



#### **TENS - ASYMMETRICAL BIPHASIC**

ADVICE ON SIZE AND TYPE OF ELECTRODES TO BE USED IS GIVEN IN DEVICE GUI "TREATMENT GUIDELINES" FEATURE

The Asymmetrical Biphasic waveform has a short pulse duration. It is capable of strong stimulation of the nerve fibers in the skin as well as of muscle tissue. This waveform is often used in TENS devices. Because of its short pulse, the patient typically tolerates the current well, even at relatively high intensities.



## **TENS - SYMMETRICAL BIPHASIC**

ADVICE ON SIZE AND TYPE OF ELECTRODES TO BE USED IS GIVEN IN DEVICE GUI "TREATMENT GUIDELINES" FEATURE

The Symmetrical Biphasic waveform has a short pulse duration and is capable of strong stimulation of nerve fibers in the skin and in muscle. This waveform is often used in portable muscle stimulation units, and some TENS devices.



#### VMS<sup>™</sup>

## ADVICE ON SIZE AND TYPE OF ELECTRODES TO BE USED IS GIVEN IN DEVICE GUI "TREATMENT GUIDELINES" FEATURE

VMS is a symmetrical biphasic waveform with a 100 µsec interphase interval. Because the pulse is relatively short, the waveform has a low skin load, making it suitable for applications requiring high intensities, such as in muscle strengthening protocols.



## IFC PREMODULATED (Traditional 2 Pole)

## ADVICE ON SIZE AND TYPE OF ELECTRODES TO BE USED IS GIVEN IN DEVICE GUI "TREATMENT GUIDELINES" FEATURE

Premodulated Current is a medium frequency waveform. Current comes out of one channel (two electrodes). The current intensity is modulated: it increases and decreases at a regular frequency (the Amplitude Modulation Frequency).



## HIGH VOLTAGE PULSED CURRENT (HVPC)

The High Voltage Pulsed Current (HVPC) has a very brief pulse duration characterized by two distinct peaks delivered at high voltage. The waveform is monophasic (current flows in one direction only). The high voltage causes a decreased skin resistance making the current comfortable and easy to tolerate.



## INTELECT® MOBILE 2

## **COMBO SET INCLUDES:**

PART NUMBER	DESCRIPTION	
15-0133	Intelect® Mobile 2 COMBO	
79967	Carbon electrodes	
42198	Gel electrodes	
70010	STIM lead wires	
6522055	Chattanooga® straps	
15-0142	5 CM² ultrasound applicator	
4248	Ultrasound gel bottle	
15-0144/46/47	Power cord	
15-1140	USB drive	
13-1604	Printed quick start guide	

## STIM SET INCLUDES:

PART NUMBER	DESCRIPTION
15-0132	Intelect® Mobile 2 STIM
79967	Carbon electrodes
42198	Gel electrodes
70010	STIM lead wires
6522055	Chattanooga® straps
15-0144/46/47	Power cord
15-1140	USB drive
13-1604	Printed quick start guide

## **ULTRASOUND SET INCLUDES:**

PART NUMBER	DESCRIPTION
15-0131	Intelect® Mobile 2 ULTRASOUND
15-0142	5 CM² ultrasound applicator
4248	Ultrasound gel bottle
15-0144/46/47	Power cord
15-1140	USB drive
13-1604	Printed quick start guide

DISTRIBUTED BY



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