

Intelect® Neo

Therapeutic excellence, at the touch of your finger

The Intelect Neo is the new standard in physical medicine modalities. Its intelligent design (the result of over 100,000 hours of intensive R&D) is clever in its features, usability and clinical technology. Delivering an exceptional patient and therapist experience. Every element of the Intelect Neo has been expertly crafted, empowering the clinician to provide patients with an unsurpassed level of rehabilitation.

Intelect Neo offers multimodality with 6 plug-and-play modules. Each unit can be assembled specifically for your customized clinical needs. And your unit can also adapt to your future needs by adding additional modules. The plug-and-play modules are easily installed in no time, without worrying about configuration and other settings.

Neo is also simple to use and a pleasure to navigate, thanks to the Clinical Protocol Setup™ (CPS), which leads you through the functions of the device and each therapy.

Additionally, Neo offers a stunning anatomic library that illustrates an array of pathologies, making it easier for you to communicate with patients about their condition and educate them on further treatment options.

A completely modular setup allows you to choose among the components that best fit your practice. The unit has an integrated base with discreet, strong handles for carrying.

The optional high-quality cart is stable, height-adjustable, moves with ease, and includes three roomy storage drawers with sturdy pull tracks.

Clinical excellence and increased productivity,

Intelect Neo gives you the freedom to have both.



Electrotherapy Waveforms

Waveforms		Description	Output Intensity	Phase Duration	Frequency (Hz)
Interferential Current IFC (4-Pole)	√ \\\\\	Interferential Current is distributed through two channels (four electrodes). The currents cross each other and interfere, resulting in a modulation of the intensity (the current intensity increases and decreases at a regular frequency).			2000-10000 (Carrier) 0 - 200 (Beat)
Premodulated IFC (2-Pole)		Premodulated Current comes out of one channel (two electrodes). The current intensity is modulated: it increases and decreases at a regular frequency.			2000-10000 (Carrier) 1 - 200 (Beat)
VMS™		A symmetrical biphasic waveform with a 100 μsec interphase interval. The short pulse has a low skin load, ideal for high intensities applications, such as muscle strengthening.	0-255 mA	20-1000 μsec	1-200
VMS™ Burst	T.V.	A burst version of VMS™	0-255 mA	20-1000 μsec	1-200
VMS™ FR		A version of VMS where physiologically based channel interaction in which one channel stimulates the agonist & the other the antagonist of the muscle that is being exercised.	0-150 mA/ 0-150 V	20-400 μsec	1-200
Asymmetric Biphasic TENS		This 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.	0-110 mA	20-1,000 μsec	1-250
Symmetric Biphasic TENS		A waveform with a short pulse duration. It is capable of strong stimulation of the nerve fibers in the skin as well as of muscle tissue.	0-80 mA	20 - 1,000 μsec	0-250
Alternating Rectangular		An interrupted biphasic current with a rectangular pulse shape. Commonly used as a pain management application.	0-100 mA	20-1,000 μsec	0-250
Microcurrent	\underset{\under	Microcurrent is a monophasic waveform of very low intensity. The literature reports beneficial effects of this waveform in the treatment of wounds.	0-1000 μΑ		
Han Stimulation		This waveform provides optimal parameters with a precisely controlled sequence of Dense-and-Disperse (DD) modes of stimulation, simultaneously releasing all 3 kinds of opioid peptides leading to an enhanced analgesic effect.	0-80 mA/ 0-80 V	20-180 μsec	1-2
High Voltage Pulsed Current		This monophasic waveform has a very brief pulse duration with two distinct peaks. The high voltage causes a decreased skin resistance making it comfortable and easy to tolerate.	0-500 V		10-120
Monophasic Rectangular TENS		This waveform is an interrupted unidirectional current with a rectangular pulse shape. Commonly used with electro diagnostic testing & to stimulate Denervated muscle.	0-110 mA	20-1,000 μsec	1-200
Monophasic Rectangular: Pulsed		An interrupted unidirectional current with a rectangular pulse shape.	0-80 mA	0.1-500 ms	
Monophasic Triangular: Pulsed		An interrupted unidirectional current with a triangular pulse shape.	0-80 mA	0.1-500 ms	
Monophasic Rectangular: Surged		A series of rectangular, monophasic pulses. The pulses surge to maximum power, hold and then decrease before the pause. This waveform well suited for muscle strengthening.	0-80 mA	0.2-5.0 ms	5-60
Monophasic Triangular: Surged		As above but with a triangular shaped pulse.	0-80 mA	0.2-5.0 ms	5-60
Träbert (Ultrareiz)		A monophasic waveform with a phase duration of 2 ms & a pause of 5 ms resulting in a frequency of ~ 143Hz.	0-80 mA	2 ms	~143
Galvanic: Continuous		A direct current following in one direction only.	0-80 mA		
Galvanic: Interrupted		A direct current following in one direction only.	0-80 mA		
Russian		A sinusoidal waveform, delivered in bursts or series of pulses. Claimed to produce maximal muscle strengthening effects without significant discomfort to the patient.	0-100 mA		
Diadynamic Monophasic (MF)	\bigcirc \bigcirc	The Diadynamic waveforms are rectified alternating currents. Frequency of 50 Hz: phase duration of 10 ms followed by a pause of 10 ms.	0-80 mA	10 ms	50
Diadynamic Diphasic (DF)	MMM	Frequency of 100 Hz: phase duration of 10 ms followed immediately by another identical phase of 10 ms.	0-80 mA	10 ms	100
Diadynamic CP		1 second of monophasic followed by 1 second of diphasic.	0-80 mA		
Diadynamic CP-iso	MWM)	A combination of monophasic & diphasic waveforms.	0-80 mA		
Diadynamic CP-id	MWM)	A combination of monophasic & diphasic waveforms.	0-80 mA		
Diadynamic LP	/W/W/N	Rhythmical % uctuation between 2 monophasic currents.	0-80 mA		
Diadynamic MF + CP	(ΛMM)	A period of MF followed by a period of CP.	0-80 mA		
Diadynamic MF + CP-id		A period of MF followed by a period of CP-ID.	0-80 mA		
Diadynamic DF + LP	MMM	A period of DF followed by a period of LP.	0-80 mA		
Diadynamic DF + CP	MMM	A period of DF followed by a period of CP.	0-80 mA		
Iontophoresis		The introduction of ionizable drugs through intact skin by the administration of continuous, direct electrical current.			
S/D Curve					

Technical Specifications

ULTRASOUND

Duty Cycles:
Pulse Repetition Rate:
Pulse Duration:

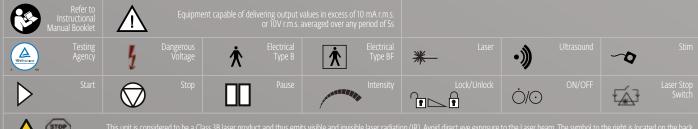
IPXX Rating for Unit:

Head Warming Feature

LASER

Pulse Frequencies:

Description of Device Markings





For all single diode and cluster laser and LED applicators, the expected increase in the measured quantities after manufacture combined with the values measured at the time of manufacture is ± 20%. The software incorporates a cooling function that forces the user to cool the laser clusters prior to the next treatment when treatment times exceed 3 minutes per application. The software will calculate the cooling time needed as follows:

Technical Specifications

VACUUM

Vacuum Range:0 to 600 mbar maximum +/- 5%Vacuum Modes:Continuous or Pulsed in 10 steps

Continuous:

10 setting over vacuum range, 60mbar setting+10mbar to -10mbar per setting

Pulsed Mode:

Maximum Vacuum settings 2 to 10, +10mbar to 10mbar per setting. Minimum Vacuum settings in 1 to 9, +10mbar to -10mbar per setting Hold Time in minimum & maximum vacuum settings, 0-20 seconds, in 1 second steps, +/-0.5 seconds

Power:

Input:20-25 Vdc4A Electrical Class:CLASS IElectrical:TYPE BF

POWER (Combination and Electrotherapy Units)

Mains: 100 - 240 V AC- 1.0 A, 50/60 Hz

Electrical Class: CLASS I Mode of Operation: Continuous

Electrical Type (Degree of Protection):

Ultrasound:TYPE BLaser:TYPE BElectrotherapy:TYPE BFElectrotherapy & sEMG:TYPE BFElectrotherapy & Vacuum:TYPE BFUltrasound & Electrotherapy:TYPE B

Note:

All waveforms except High Voltage Pulsed Current (HVPC) have been designed with a 200 mA current limit. VMS" Waveforms and all TENS waveform output intensities are measured, specified, and listed to peak, not peak to peak.

GENERAL SYSTEM OPERATING & STORAGE TEMPERATURE

Operating conditions:

- Temperature: 10° C to 45° C
- Relative Humidity: 0% to 90%
- Atmospheric Pressure: 700hPa to 1060hPa

Transport and storage conditions:

- Temperature: Above 0° C freezing to +60°C
- Relative Humidity: max 95%
- Atmospheric Pressure: 700hPa to 1060hPa

DIMENSIONS & WEIGHTS

	Dimensions (WxDXH)	Weight
Vacuum Module	26,39 cm x 13,92 cm x 28,12 cm	Vacuum weight is 2.22 Kg
Modules, ultrasound, 2-channel stim, 2-channel Stim with EMG, Laser	28,24 cm x 16,10 cm x 3,63 cm	2.45 Kg
Head @ 45 degree with Base (Tabletop)	40,36 cm x 40,36 cm x 56,01 cm	Tabletop weight is 9.38 Kg
Cart Lowered (with casters)	60.80 cm x 66.52 cm x 69.62 cm	13.33 Kg
Cart Raised (with casters)	60.80 cm x 66.52 cm x 76.58 cm	13.33 Kg
Head and raised cart with screen @ 90deg	60.80 cm x 66.52 cm x 134.23 cm	22.18 Kg

Custom Made Modality

Build the precise combination for your needs with five slide-in, plug-and-play module options; Channel 1/2 stim, Channel 1/2 stim/ EMG, Channel 3/4 stim, Laser and Ultrasound. Plus the option of a vacuum electrode module. Each unit is assembled and shipped specifically according to your customized clinical needs.



2 channel tabletop stim with sEMG	2 channel tabletop combo with sEMG	2 channel combo with cart	2 channel combo with sEMG and cart	2 channel combo with sEMG, laser and cart	4 channel combo with cart	4 channel combo with sEMG and cart	4 channel combo with sEMG, laser and cart
			Required Pa	art Numbers			
6001 70004	6001 70002 70004	6001 70000 70001 70002	6001 70002 70001 70004	6001 70002 70001 70004 70005	6001 70000 70001 70002 70003	6001 70001 70002 70003 70004	6001 70001 70002 70003 70004 70005

Ordering information

Intelect Neo Base Unit + Optional Cart

Part Number	Description	
Intelect [®] Neo		
6001	Intelect Neo Base Unit	
Standard Accessories		
13-7651	Intelect Neo User Manual	
13-7652	Intelect Neo User Manual on CD	
Optional Accessories		
70001	Intelect Neo Therapy System Cart	



Part Number	Description		
Intelect [®] Neo Ultras	ound Module		
70002	Intelect Neo Ultrasound Module		
Standard Accessorie	25		
13-8911	Ultrasound User Manual		
13-7718	Modules User Manual on CD		
4248	Ultrasound Gel		
Optional Accessories			
70001	Intelect Neo Therapy System Cart		
70008	Intelect Neo Operator Remote		
28900	Small Intelect Neo Applicator		
28901	Medium Intelect Neo Applicator		
28902	Large Intelect Neo Applicator		



Intelect Neo sEMG + Stim Module

Part Number	Part Number Description		
Intelect Neo sEMG and Channel 1/2 Stimulation Module			
70004	Intelect Neo sEMG and Channel 1/2 Stimulation Module		
Standard Accessories			
13-8905	Stim 1/2 Module User Manual		
13-7718	Modules User Manual on CD		
10648	Nylatex Wrap		
79967	6 x 8 cm carbon electrodes (4x)		
79970	6 x 8 cm sponges (4x)		
42192	Dura-Stick® Plus 5 cm round electrodes (4x)		
114.610EXP	Intravaginal Probe		
27321	Channel 1 EMG Leadwire		
27322	Channel 2 EMG Leadwire		
Optional Accessories			
70001	Intelect Neo Therapy System Cart		
70008	Intelect Neo Operator Remote		
79977	HiVolt Probe		
57007	Microcurrent Probe		



Part Number	Description		
Intelect Neo Chanr	nel 1/2 Stimulation Module		
70000	Intelect Neo Channel 1/2 Stimulation Module		
Standard Accessor	ies		
13-8905	Stim 1/2 Module User Manual		
13-7718	Modules User Manual on CD		
10648	Nylatex Wrap		
79967	6 x 8 cm carbon electrodes (4x)		
79970	6 x 8 cm sponges (4x)		
42192	Dura-Stick® Plus 5 cm round electrodes (4x)		
57007	Microcurrent Probe		
Optional Accessori	es		
70001	Intelect Neo Therapy System Cart		
70008	Intelect Neo Operator Remote		
79977	HiVolt Probe		
57007	Microcurrent Probe		

Note: No applicator included as standard

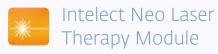


Intelect Neo Channel 3/4 Stim Module

Part Number	Part Number Description		
Intelect Neo Channel 3	/4 Stimulation Module		
70003	Intelect Neo Channel 3/4 Stimulation Module		
Standard Accessories			
13-8893	Stim 3/4 Module User Manual		
13-7718	Modules User Manual on CD		
10648	Nylatex Wrap		
79967	6 x 8 cm carbon electrodes (4x)		
79970	6 x 8 cm sponges (4x)		
42192	Dura-Stick® Plus 5 cm roundelectrodes (4x)		
Optional Accessories			
70001	Intelect Neo Therapy System Cart		
70008	Intelect Neo Operator Remote		
79977	HiVolt Probe		
57007	Microcurrent Probe		

Intelect Neo Vacuum Stimulation Module

Part Number	Description		
Intelect Neo Vacuui	m Module		
70006	Intelect Neo Vacuum		
Standard Accessorie	25		
13-8809	Vacuum Module User Manual		
13-7652	Intelect Neo User Manual on CD		
56852	60 mm Vacuum Electrodes Stainless Steel (8x)		
56806	60 mm Vacuum Sponges (8x)		
56902	Ch 1/3 Vacuum Lead Hose (Black)		
56901	Ch 2/4 Vacuum Lead Hose (Gray)		
Optional Accessorie	es .		
70030	Leadhose Vacuum Ch 1/2 Kit		
70031	Leadhose Vacuum Ch 3/4 Kit		
70032	Leadhose Vacuum Ch 1/2 Kit XL		
70033	Leadhose Vacuum Ch 3/4 Kit XL		
70034	90 mm Vacuum Electrode Kit		
70035	60 mm Vacuum Electrode Kit		
70036	30 mm Vacuum Electrode Kit		
70037	90 mm Vacuum Sponge Kit		
70038	60 mm Vacuum Sponge Kit		
70039	30 mm Vacuum Sponge Kit		
70040	Vacuum Module Electrode/Leadhose Kit		
70041	Vacuum Plug Kit		



Part Number	Description
Intelect Neo Laser Thera	py Module
70005	Intelect Neo Laser Therapy Module
Standard Accessories	
13-8907 13-7718 70008 27525	Laser Module User Manual Modules User Manual on CD Intelect Neo Operator Remote Laser Protection Glasses
Optional Accessories	
70001	Intelect Neo Therapy System Cart
Laser Applicators	
Singles 27799 27803 27840 27840 27841 27805 9 Diode Cluster 27810 27811 27812 13 Diode Cluster 27813 27814	LED Diode 10mW Laser Diode 40mW Laser Diode 100mW Laser Diode 150mW Laser Diode 200mW Laser Diode 300mW 290mW Total: 5x50mW Lasers, 4x10mW LED 540mW Total: 5x100mW Lasers, 4x10mW LED 1040mW Total: 5x200mW Lasers, 4x10mW LED Total: 3x50mW Lasers, 7x10mW LED, 3x15mW LED 415mW Total: 3x100mW Lasers, 7x10mW LED, 3x15mW LED
27816 19 Diode Cluster 27815 33 Diode Cluster	715mW Total: 3x200mW Lasers, 7x10mW LED, 3x15mW LED 325mW Total: 6x10mW LED, 7x25mW LED, 6x15mW LED
27809 27802 27807 27808 Note: No applicator includ	565mW Total: 12x10mW LED, 13x25mW LED, 8x15mW LED 690mW Total: 5x50mW Lasers, 12x10mW LED, 8x25mW LED, 8x15mW LED 940mW Total: 5x100mW Lasers, 12x10mW LED, 8x25mW LED, 8x15mW LED 1440mW Total: 5x200mW Lasers, 12x10mW LED, 8x25mW LED, 8x15mW LED



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