

InTENSity™ CX4

CLINICAL ELECTROTHERAPY AND ULTRASOUND

The **InTENSity CX4** is an advanced combination electrotherapy and ultrasound system offering the practitioner a wide range of treatment options in one user-friendly, ergonomic design at a fraction of what other systems would cost.

Equipped with a color, touchscreen menu-driven interface, the **InTENSity CX4** intuitively groups and displays clinical protocols, guiding clinicians step-by-step to ensure the ideal therapeutic treatment. Parameters can be easily selected and adjusted. Clinicians can choose to use preset clinical protocols or customize their own. The comprehensive library provides recommended electrode placement to ensure better treatment outcomes and improved clinic efficiency.

FEATURES & BENEFITS:

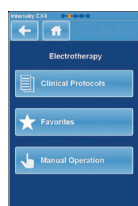
- Bilingual touchscreen user-friendly interface
- Dual frequency ultrasound at 1 MHz and 3 MHz
- Low BNR ratio of 5:1
- Multiple waveform electrotherapy: Interferential, Premodulated, TENS (Symmetrical Biphasic, Asymmetrical Biphasic, RAAS*), NMS, Russian, High Volt, and Microcurrent
- Rapid Agonist Antagonist Sequencing (RAAS*) replicates typical firing patterns of muscle contractions during functional movement for the best therapeutic outcome
- Independent intensity and parameter controls for each channel
- 4 channels of independent stimulation - can be used in combination (linked) or totally independent
- Comprehensive full-color graphic anatomical and pathological libraries with recommended electrode placement
- "Favorites" feature stores up to 99 user-defined protocols for future use
- Sleek, user-friendly, ergonomic design for table top or therapy cart use

RECENT UPGRADES:

- **Bilingual (Spanish/English)** touchscreen user-friendly interface
- **Rapid Agonist Antagonist Sequencing (RAAS*)** is used for neuromuscular reeducation and treatment of muscle disuse atrophy. It is designed to mimic the typical muscle-firing patterns of a healthy individual during functional movement or activity.
- Improved rubberized **tangle-free longer lead** wires with a thicker gauge to allow for better more stable electric flow (WQ8110)



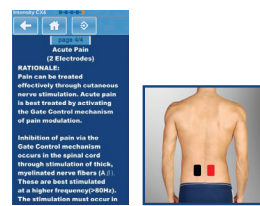
**TENS | RAAS* | NMS | IF
RUSSIAN HIGH VOLT | MICROCURRENT
ULTRASOUND**



Multifunctional Touchscreen Interface



Clinical Protocols Provide the Appropriate Parameters for a Variety of Conditions.



Educational Library with Recommended Electrode Placement Guide



Optional cart moves with ease and includes six spacious storage drawers

Item #	Description	Qty
ELT-1030	InTENSity CX4 Clinical Electrotherapy and Ultrasound System	each
ELT-1035	InTENSity CX4 Clinical Electrotherapy and Ultrasound System with Therapy Cart	each

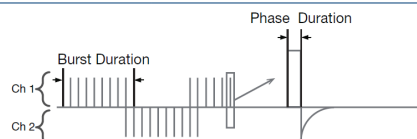
ELECTROTHERAPY PARAMETERS:



CX4 ELECTROTHERAPY PARAMETERS

# of Channels:	Four, Isolated
Treatment Time:	1 – 60 min, adjustable

RAPID AGONIST ANTAGONIST SEQUENCING (RAAS) BIPHASIC



Purpose:	Used for neuromuscular reeducation and treatment of muscular disuse atrophy and designed to mimic the muscle-firing patterns of a healthy individual
Mode Selection:	RAAS (Symmetrical Biphasic, Asymmetrical Biphasic)
Pulse Amplitude:	200 mA, Stepping 0.5 mA
Phase Duration:	20µs – 1,000µs, Stepping 5µs
Pulse Frequency:	1 – 250 Hz, Stepping 1 Hz
Burst Duration:	100ms - 5,000ms, Stepping Adaptive
Pattern Frequency:	0.7 Hz (Burst Dur. 100 ms - 500 ms) 0.3 Hz (Burst Dur. 500 ms - 1,000 ms) 0.15 Hz (Burst Dur. 1,000 ms - 2,000 ms) 0.07 Hz (Burst Dur. 2,000 ms - 5,000 ms)
Treatment Time:	1 – 60 minutes

BIPHASIC (TENS):

Waveforms:	Asymmetrical & Symmetrical Biphasic Rectangular
Mode Selection:	CC or CV
Pulse Amplitude:	CC: 0 – 200 mA CV: 0 – 200 V
Pulse Width:	20 – 400 µsec
Pulse Frequency:	1 – 250 Hz
Treatment Time:	1 – 60 minutes

NEUROMUSCULAR STIMULATION (NMS)

Mode Selection:	CC or CV
Pulse Amplitude:	CC: 0 – 200 mA CV: 0 – 200 V
Pulse Width:	20 – 400 µsec
Interphase Interval:	120 µsec
Pulse Frequency:	1 – 200 Hz
Ramp:	1s, 2s, 5s
Cycle Time:	Continuous, 10/10, 10/20, 10/30, 10/50, Custom
Treatment Time:	1 – 60 minutes

MICROCURRENT

Frequency:	0.1 - 1000 Hz
Polarity:	Positive, Negative, Alternating
Pulse Amplitude:	CC: 0 - 1,000
Cycle (Fixed):	50%
Ramp (Fixed):	1s
Treatment Time:	1 – 60 minutes

IF-4P TRADITIONAL

Waveform:	Sinewave
Mode Selection:	CC or CV
Vector Scan	Auto: 20% – 100% Manual: 0° – 90°
Carrier Frequency:	Carrier F: 2 – 10 KHz Beat Low: 1 – (Beat H.) Beat High: (Beat L.) – 200 Hz
Pulse Amplitude:	CC: 0 – 200 mA CV: 0 – 200 V
Treatment Time:	1 – 60 minutes

IFC-2P PREMODULATED

Waveform:	Sinewave
Mode Selection:	CC or CV
Vector Scan:	Auto: 20% – 100% Manual: 0° – 90°
Carrier Frequency:	Carrier F: 2 – 10 KHz Beat Low: 1 – (Beat H.) Beat High: (Beat L.) – 200 Hz
Pulse Amplitude:	CC: 0 – 200 mA CV: 0 – 200 V
Ramp:	2s
Treatment Time:	1 – 60 minutes

RUSSIAN

Carrier Frequency:	2.5 KHz
Frequency:	20 – 100 Hz
Duty Cycle:	10% – 50%
Mode Selection:	CC or CV
Pulse Amplitude:	CC: 0 – 100 mA CV: 0 – 100 V
Ramp:	1s, 2s, 5s
Cycle Time:	Continuous, 10/10, 10/20, 10/30, 10/50, Custom
Treatment Time:	1 – 60 minutes

HIGH VOLT PULSED CURRENT (HVPC)

Frequency:	1 – 120 Hz
Polarity:	Positive or Negative
Phase Duration:	100 µsec
Pulse Amplitude:	CV: 0 – 500 V
Ramp:	1s, 2s, 5s
Treatment Time:	1 – 60 minutes

▶ ULTRASOUND PARAMETERS:



CX4 ULTRASOUND PARAMETERS

Frequency:	1MHz $\pm$ 10% 3MHz $\pm$ 10%
Duty Cycle:	10% – 100%, Continuous, Stepping 10%
Pulse Duration:	1 - 9 ms $\pm$ 10% (set by Duty Cycle)
Pulse Frequency:	100 Hz
Ramp (Fixed):	1s
Treatment Time:	1 - 60 minutes

OUTPUT POWER

Duty Factor: $\geq 80\%$ for 5 cm ² :	0.5W – 10.0W
Duty Factor $\leq 70\%$ for 5 cm ² :	0.5W – 15.0W
Duty Factor $\geq 80\%$ for 1 cm ² :	0.1W – 2.0W
Duty Factor $\leq 70\%$ for 1 cm ² :	0.1W – 3.0W
Output Accuracy	$\pm$ 20% (for any level above 10% of maximum)

AMPLITUDE

Duty Factor: $\geq 80\%$:	2.0W/cm ²
Duty Factor $\leq 70\%$:	3.0W/cm ²
Treatment Timer:	0 – 30 min $\pm$ 0.1 min

EFFECTIVE RADIATING AREA (ERA)

5 cm ² Crystal:	5 cm ²
1 cm ² Crystal:	1 cm ²

BEAM TYPE

Beam Type:	Collimating
Beam Non Uniformity Ratio:	5:1 maximum

PRODUCT SPECIFICATIONS:



INTENSITY CX4 SYSTEM INCLUDES:

CX4 Electrotherapy/Ultrasound Device	
Instruction Manual (hard copy & on CD) and Quick Start Guide	
DQ8000W5	5 cm ² Sound Head
WQ8110	110" Lead Wire Kit (2x)
DQSWITCH	Patient Kill Switch
DQ8000X	Medical Grade Power Cord
EA2020WC-VTX	Axelgaard® Electrodes 2" Square (2 packs of 4 each)
EA2035WC-VT	Axelgaard® Electrodes 2" x 3.5" Rectangle (2 packs of 4 each)
EA3050WC-VT	Axelgaard® Dispersive Electrode 3" x 5" Rectangle (1 pack of 2 each)
ER2535B2	Rubber Electrodes 2.5" x 3.5" Rectangle (4x)
ER2743B2	Rubber Electrodes 2.75" x 4.3" Rectangle (4x)
EW3023BW2	Elastic Wrap 3" x 23.5" (1x)
EW3047B2	Elastic Wrap 3" x 47" (1x)
LS5288	TheraSonic™ Ultrasound Gel, 8 oz.

PRODUCT SPECIFICATIONS:

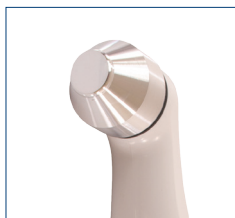
Power Supply:	100 – 240 VAC, 50 – 60 Hz
Power Output:	15V, 4A Max
Dims (L x W x H):	11.25" x 7.75" x 9.5"
Weight:	5 lbs.
UPC:	092237615218

SHIPPING SPECIFICATIONS:

Ship Dims (L x W x H):	14.5" x 13" x 13"
Ship Weight:	6 lbs.

OPTIONAL ACCESSORIES:

1 CM² SOUND HEAD APPLICATOR (ITEM #DQ8000W1)



- Pre-calibrated, water resistant (IPX7) and ergonomically designed
- Operates with 1 MHz and 3 MHz

INTENSITY THERAPY CART



- Integrates for use with either EX4 or CX4 unit
- Six drawers to keep supplies organized and handy
- Four swivel casters, two with wheel locks

* This is a Class II Medical Device. Federal law restricts these devices to sale by or on the order of a licensed health care professional.

* Providers are responsible for determining appropriate billing codes for Medicare Program claims. This information is included for your convenience and is not intended, nor should it be considered billing advice.