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Electrotherapy Equipment and Supplies

PREMIER STIM Plus

Combo TENS/EMS with
24 Preset Programs

Built-in Presets for Quick & Easy Set-Up • Safe User-Friendly Features
AC Adapter or 9V Battery Power

Premier Features

- Dual channel (4-lead) Digital Combo TENS / EMS Neuromuscular Stimulator
- Fully digital with micro-processor circuitry and controls
- 5 TENS Adjustable Modes (Normal, Burst, Modulated Rate & Width, Strength Duration 1, Strength Duration 2)
- 3 EMS Adjustable Modes (Constant, Synchronous, Alternating)
- 24 Preset Programs (12 TENS and 12 EMS Programs)
- Large, easy-to-read LCD display that shows all parameters
- Parameter Lock button to prevent accidental changes to settings
- Treatment Pause button to pause and resume treatment at any time
- Treatment Timer 5-60 minutes, or Continuous operation
- Treatment Countdown display with Automatic Shut-Off
- Compliance Monitor records up to 999 hours of usage
- AC Adaptor (included) or 9V battery power supply
- Low-battery indicator display
- Sturdy all-metal belt clip
- 3-year warranty
- Comes with 1 pkg of 4 reusable self-adhering electrodes, 1 set 43" pin leadwires, 1 each 9V heavy duty battery, AC Adaptor, carrying case, and instruction manual



Technical Specifications

- **Channels:** Dual, isolated between channels
- **Wave Form:** Asymmetrical Biphasic Square Pulse
- **Amplitude:** 0-100 mA (peak to peak into 500 ohm load each channel)
- **Output Voltage:** 0 to 50V (500 ohm load)
- **Modes:** 5 TENS Modes: B (Burst), N (Normal), M (50% Modulated Rate & Width), S1 (40% Modulated Width), S2 (70% Modulated Width)
3 EMS Modes: C (Constant), S (Synchronous), A (Alternating)
12 Preset TENS Programs P1-12 (see Programs Chart on back)
12 Preset EMS Programs P13-24 (see Programs Chart on back)
- **Pulse Rate (Frequency):** 2 - 150 Hz, 1 Hz/step
- **Pulse Width (Duration):** 50 - 300 microseconds (μ s), 10 μ s/step (P22 fixed at 400 μ s)
- **Contraction (On) Time:** 2 - 90 seconds, 1 sec/step
- **Relaxation (Off) Time:** 2 - 90 seconds, 1 sec/step
- **Ramp Up/Down Time:** 1 - 8 seconds, 1 sec/step (The "On" time will increase and decrease in the setting value)
- **Treatment Timer:** 5 - 60 minutes or Continuous (C), 5 min/step
- **Compliance Usage Meter:** Records up to 60 sessions, up to 999 hours
- **Low Battery Indicator:** Battery symbol appears when battery power is low
- **Parameter Lock Button:** Locks in the parameters to prevent changes to settings
- **Power Supply:** One 9 Volt Battery or AC adapter
- **Size:** 4.65"(L) x 2.36"(W) x 1.22"(D)
- **Weight:** 157 grams with battery

Preset Programs of TENS (P1 - P12)

Program #		Pulse Rate (Hz)	Pulse Width (μs)	Timer (min.)	Conditions
1	Conventional TENS Ideal for first application of TENS for both acute & long term pain.	80	180	Continuous	Neck Pain, Shoulder Pain, Elbow Pain, Rheumatic Pain, Lumbar, Menstrual Pain, Hip Pain, Osteoarthritic Pain in the Knee
2	Burst TENS Most effective for radiating pain in arms, legs and deep muscular pain.	2	180	Continuous	Osteoarthritic Pain in the Knee, Sciatica Central Pain
3	Modulated TENS Pain relief with a massage effect	80	70-180	Continuous	Neck Pain, Shoulder Pain, Elbow Pain, Rheumatic Pain, Lumbar, Menstrual Pain, Hip Pain, Osteoarthritic Pain in the Knee
4	Mixed Frequency TENS Alternates between 2 low rates.	15/2	180	Continuous	Osteoarthritic Pain in the Knee, Neck Pain, Shoulder Pain, Menstrual Pain, Central Pain Lumbago
5	Mixed Frequency TENS Effective programs for long term use with a reduced accommodation factor, alternates between high rate and low rate	80/2	280	Continuous	Osteoarthritic Pain in the Knee, Neck Pain, Shoulder Pain, Menstrual Pain, Central Pain Lumbago
6	Nausea Specifically for the treatment of nausea, treatment most successful placing electrode over acupuncture point C6.	10	180	Continuous	Nausea
7	Migrane/Headaches Reduced pulse width ideal for treating nerve rich areas.	80	60	Continuous	Tension Type Headache, Facial Pain, Neck Pain, Postherpetic Neuralgia
8	Low Frequency Modulation 70% rate modulation over 10 seconds	10	200	30	Neck Pain, Shoulder Pain, Elbow Pain, Rheumatic Pain, Lumbar, Menstrual Pain, Hip Pain, Osteoarthritic Pain in the Knee
9	Frequency & Width Modulation 90% rate & width modulation over 10 seconds.	50	250	30	Neck Pain, Shoulder Pain, Elbow Pain, Rheumatic Pain, Lumbar, Menstrual Pain, Hip Pain, Osteoarthritic Pain in the Knee
10	Frequency Sweep Mode Sequential modulation of frequency to prevent stimulus accommodation.	5-125	120	Continuous	For all types of pain conditions
11	Frequency & Width Modulation Modulation Rate & Width over 6 seconds	2-100	150-260	Continuous	Neck Pain, Shoulder Pain, Elbow Pain, Rheumatic Pain, Lumbar, Menstrual Pain, Hip Pain, Osteoarthritic Pain in the Knee
12	Frequency Modulation Modulation Rate over 6 seconds.	7-80	260	Continuous	Neck Pain, Shoulder Pain, Elbow Pain, Rheumatic Pain, Lumbar, Menstrual Pain, Hip Pain, Osteoarthritic Pain in the Knee

Preset Programs of EMS (P13 - P24)

Program #		SYN/ALT	Pulse Rate (Hz)	Pulse Width (μs)	On Time (sec.)	Off Time (sec.)	Ramp (sec.)	Timer (min.)
13	ACL repair/joint protection back muscle	SYNCHRONOUS	35	300	8	24	3	20
14	Spasm small muscle	SYNCHRONOUS	80	300	10	5	3	20
15	Spasm Postoperative	SYNCHRONOUS	80	250	8	4	2	20
16	Arthroscopy	SYNCHRONOUS	25	200	6	30	2	15
17	Disuse Atrophy	SYNCHRONOUS	35	300	5	15	2	30
18	Shoulder Subluxation	SYNCHRONOUS	50	300	15	50	5	15
19	Range of motion muscle re-education of hips	SYNCHRONOUS	40	250	3	21	3	30
20	Muscle Training	SYNCHRONOUS	50	250	10	10	2	20
21	Muscle Training	SYNCHRONOUS	50	250	14	14	2	20
22	Muscle Training	SYNCHRONOUS	35	400	10	10	2	20
23	Muscle Training	ALTERNATING	50	250	10	10	2	20
24	Muscle Training	ALTERNATING	50	250	14	14	2	20

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