

EMG PRO

Richmar's EMG Pro is a single channel, portable electrotherapy device with EMG Biofeedback, EMG Triggered Stim, TENS and NMES. Each mode has preset and customizable programs, designed to help with various components of muscle rehabilitation including pain management, muscle strengthening and training, muscle relaxation and re-education, as well as urinary incontinence and pelvic floor health. The EMG Pro is a valuable rehabilitation tool that can be used across patient populations, from orthopedic and sports rehab, to treating patients with neuralgic impairment. This is an innovative and multifaceted rehab training device, designed to benefit both patients and clinicians. It is an all-in-one tool for a wide variety of treatments that can be used in clinics, at home, or on the go.

The EMG Pro offers two modes of operation: Patient Mode and Therapist Mode.

- In Patient Mode, a therapist can set prescribed programs for a patient to perform at home.
 Certain functions of the device are locked, so the patient can only access the prescribed treatment methods.
- In Therapist Mode, all treatment protocols are available to be used in a clinic setting.

EVIDENCE BASED PROTOCOLS!

This device was developed by top modality researchers with evidence based preset protocols to guide and assist clinicians in treatment and offer versatile, comprehensive rehabilitation therapies.

Improve neuromuscular control, decrease pain, increase function and improve therapeutic effectiveness with Richmar's EMG Pro.

EMG

- Enhance a patient's therapeutic exercise and functional activities with real-time feedback on muscle performance.
- Facilitates increased muscle recruitment when treating weak, inhibited muscles.
- Inhibits muscle activation when treating overactive muscles.
- Creates a positive feedback look and improved neuromuscular control.
- Muscle Strength Grading Scale to help patients reach their therapeutic targets.

EMG Triggered Electrical Stimulation (ETS)

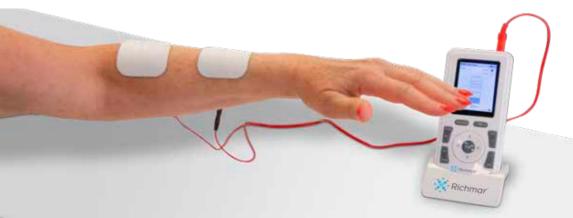
- EMG Triggered Stim offers the best of both worlds by providing immediate biofeedback on muscle performance with the added benefit of electrical stimulation.
- The electrical stimulation is activated by the patient reaching their threshold of voluntary contraction.
- If a patient can only go through a portion of the requested range of motion, the electrical stimulation can be set to assist them through the remainder of the motion.

NMES

- Includes evidence based preset protocols for muscle re-education, strength augmentation, and fast and slow twitch muscle training.
- Effectively stimulate weak, inhibited muscles to improve neuromuscular control and strength when added to a volitional training program.

TENS

 Includes evidence based preset protocols for pain management, including sensory and motor TENS, mixed frequency TENS, as well as protocols to prevent habituation.



FEATURES

- Biofeedback allows patients to see their muscle activation levels in real-time via bar or line graph.
- Auditory and visual biofeedback
- Four Modes: EMG, ETS, TENS, NMES
- Over 30 evidence based present protocols to choose from, including:
 - o 17 Incontinence Protocols
 - o 10 preset protocols for pain management.
 - o 7 present protocols for muscle reeducation
- Muscle Strength Grading Scale
- Training and assessment data can be stored and saved or deleted as needed for a single patient up to 31 times
- User friendly interface with colored matrix display
- Light weight, portability is perfect for Athletic Trainers, Sports Rehab or Occupational Therapists
- Soft shell carrying case
- 3 Year Warranty
- Rx Only





THE EMG PRO INCLUDES:

EMG Pro Device

Reference Lead Wires (Black) Channel Lead Wires (Red)

(1) 3" x 5" MicroBlock Electrodes, 2/pk
(2) 2" x 2" MicroBlock Electrodes, 4/pk

(4) AA Batteries

USB

Device Stand

Device Carrying Case

User Manual

ORDER DETAILS:

DQEMG EMG Pro

DQEMGPEMG Pro + ProbesEMG-VPEMG Pro Vaginal ProbeEMG-RPEMG Pro Rectal ProbeEMG-RLWEMG Reference Lead WireEMG-CLWEMG Channel Lead Wire

400-852-MIC 3" x 5" Microblock Electrodes (2/pk) 400-877-MIC 2" x 2" Microblock Electrodes (4/pk)

EMG-USBEMG USB CableEMG-STANDEMG Device StandEMGCCEMG Carrying Case



The EMG Pro was trialed and is currently used by some of the country's top, nationally recognized rehab facilities and women's health clinics.

TECHNICAL SPECIFICATIONS

Power Supply: DC 6V, (4) AA Batteries
 Device Dimensions: 5.47"x 2.68" x 1.3"

• **Weight:** 156 G

Vaginal Probe Dimensions: 1.08" x 2.9"
 Rectal Probe Dimensions: 1.12" x 5.09"

EMG

• EMG Range: 0 to 2000 μV RMS (continuous)

• **Sensitivity:** 0.1 µV RMS

• Accuracy: 10% of μV reading or 2 μV at 180 Hz, max value

Selectable Band Pass Filter -3db Bandwidth

a. Wide: 20Hz to 500Hz b. Narrow: 100 Hz to 500 Hz

• Notch Filter: 50 Hz -33 dbs (0.1% accuracy)

 Common Mode Rejection Ratio: 130 dbs Minimum
 50 Hz

• Work/Rest Period: 2 - 99 seconds

Number of Trials: 1 - 99

ETS

Program Time: 1 - 99 minutes

Threshold: 0 - 2000 μV
 Filter: Wide/Narrow

• Biofeedback: Above/Below/Continue/OFF

Work/Rest Time: 2 - 99 seconds

Number of Trials: 2 - 99Threshold: Auto/Manual

Frequency: 2 - 120Hz
Pulse Width: 50 - 450 µs
Ramp Time: 0.1 - 9.9 seconds

NMES

• Amplitude: 0 - 100 mA at 500 Ohm load (Actual mA tends to be less due to electrode impedance.)

Type: Constant current

Waveform: Symmetrical Biphasic

Pulse Width: 50 - 450 μs
 Pulse Rate: 2 - 120Hz

Work/Rest Period: 2 - 99 seconds

Time: 1 - 99 minutes

• Ramp Time: 0.1 - 9.9 seconds

• Preset and customizable treatment programs.

• Automatic output shut off with detection of open electrode above 1 mA.

TENS

• **Amplitude:** 0 - 100 mA at 500 Ohm load (actual mA tends to be less due to electrode impedance.)

• Type: Constant Current

Waveform: Symmetrical Biphasic

Pulse Width: 50 - 450 µs
 Pulse Rate: 2 - 100Hz
 Time: 1 - 99 minutes

Preset and customizable treatment programs.

 Automatic output shut off with detection of open electrode above 1 mA.



