intronixtechnologiescorp.
BIOMEDICAL INSTRUMENTATION
Myoguide™ System

# *Myoguide™ Needle EMG Guided Injection System*

Myoguide is a battery powered EMG (electromyography) amplifier with EMG audio feedback, LCD EMG signal display and current stimulation up to 20 mA.

Myoguide is designed to amplify electrophysiological signals from muscle and provide audio feedback to assist clinicians in locating areas of muscle activity. The integrated stimulator can be used to invoke twitch responses for stimulation location procedures.

The Myoguide system is designed to amplify EMG signals from muscle and provide audio feedback to assist clinicians in locating areas of muscle activity. Clinicians can see and hear EMG activity. Treatment delivery can be in the form of neuromodulator injections or as simple as inserting a dry needle electrode. Applications include Pain Management, Spasticity (Movement Disorders), and Cosmetics.

## Key Features

- **Integrated Display:** EMG signal display; Integrated EMG bar graph; EMG RMS; Device Status toolbar; Backlight
- **High Fidelity Audio:** "Audio Mute" feature
- **Powerful Stimulator:** 0-20 mA; Selectable pulse widths (50-500uS); Selctable frequencies (1-10 Hz); "Stimulation Pause" feature
- **Shielded Input Cable** with universal electrode connectors

Handheld Myoguide is battery operated, easy to use, small and portable, and integrates convienient features.

## Key Benefits

- Small and portable and enables the user to easily increase treatment efficacy and reduce side effects
- Integrated design provides all the tools available in one handheld package: EMG signal; iEMG; EMG RMS; EMG audio; Stimulator
- Enables clinicians to see and hear, as well as identify involved muscles before any drug is injected
- Facilitates better injection site selection thereby increasing accuracy and clinical results

The large LCD display provides the complete system status at a glance. EMG audio, raw EMG signal, EMG RMS and integrated EMG display in addition to superior stimulation capability, increases efficacy for injection point localization. The control panel is intuitive and easy to operate.

Myoguide records EMG signals from electrodes placed on the subject. The onboard stimulator stimulates through the same needle electrode, which enables the clinician to record and stimulate through the same needle electrode.

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# Specifications

**INPUT RESISTANCE:** >10MΩ
**ELECTRODE IMPEDANCE:** 200Ω-10kΩ
**CMMR:** >80dB
**SIGNAL TO NOISE RATIO:** >110dB
**GAIN:** 9 gain settings are set with the <V> adjustment: 200, 500, 1000, 1500, 2000, 2500, 3000, 3500 and 4000
**SIGNAL BANDWIDTH:** 10-700 Hz
**AUDIO BANDWIDTH:** 20-700 Hz
**STIMULATOR:** Output current: 0– 20mA +/- 10%. Adjustable in 1 mA steps 0- 10 Hz, (5 steps) +/- 5% pulse width can be selected as: 50, 100, 200, or 500 uS pulse width +/- 1% square waveform.(20mA max into a 10kOhm load)
**AUDIO POWER** (maximum):1 W
**MAIN UNIT INPUT CONNECTORS:** "Touchproof" type (4 pin molded)
**DISPLAY:** LCD 160 X 64 pixels with backlight available
**POWER SUPPLY:** 4 AA Alkaline batteries (approximately 5.0 Volts DC)
**ENCLOSURE:** Flame-retardant ABS, UL flammability rating HB
**DIMENSIONS:** 5.9"L x 4.0"W x 2.1"H (150 mm x 100 mm x 54 mm)
**WEIGHT:** Approx. 1lb. (445 grams) with cable (not including batteries)
**WARRANTY:** 1 year (batteries excepted)
Specifications Intronix Model 8008 Myoguide System Cable
**CONNECTORS:** One 4-pin molded touchproof female connector designed to mate with the Intronix Model 8008 Myoguide System. The opposite end of the cable ends in three male color coded touchproof connectors, red, green and black.
**CABLE LENGTH:** 28 inches ( 71cm) from touchproof female connector to touchproof male connector. Red Alligator extension, 3". Black Alligator extension, 2". Green Alligator extension, 5.5".
**WEIGHT:** Approx. 0.1lb. (50grams) with main unit
**WARRANTY:** 1 year

## About Intronix Technologies Corporation

Located just outside Toronto, Ontario, Intronix Technologies Corp., designs and produces progressive electromyographic (EMG) systems for applications in the diagnosis and management of myofascial pain, spasticity, and fibromyalgia. Its innovations in injection guidance provide technology that drives clinical solutions to deliver confidence, improve workflow efficiency, and provide a better patient experience. Intronix Technologies is known for its exceptional equipment, plus its comprehensive customer-support programs that are developed to maximize the lifecycle value of equipment through responsive service maintenance and significant software support.

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