EZstim™ II
DUAL PURPOSE PERIPHERAL NERVE STIMULATOR

VERSATILE, POCKET-SIZE PERIPHERAL NERVE STIMULATOR AUTOMATICALLY BECOMES EITHER A FULL-FUNCTION NERVE LOCATOR OR A NEUROMUSCULAR BLOCK MONITOR, DEPENDING UPON WHICH PATIENT LEAD WIRE IS ATTACHED.

- Large, bright, easily read LCD continuously displays all instrument settings and battery status
- eShield protects against electromagnetic interference
- Unique interference protection capability eliminates need to disconnect the stimulator from the patient during electro-surgery procedures.
- Audible and visual warning of any open circuit or high resistance condition
- Detachable lead sets allow quick and easy replacement of patient leads
- Function-specific electrode connectors guard against inappropriate use of stimulator
- Large, high-sensitivity control knob facilitates precise current adjustment
- Pause mode allows changing stimulus parameters without stimulating
- Optional protective boot and IV pole mount

Shown with optional protective boot and IV pole mount.
NEUROMUSCULAR BLOCK MONITOR FUNCTION

- Complete selection of stimulus patterns – twitch, train of four, double burst, or tetanus

SPECIFICATIONS:
- Dimensions (WxDxH): 2.9” (7.3cm) x 5.5” (14cm) x 1.4” (3.4cm) – including knob
- Weight: 9.6 oz (275 gm) with 9V battery
- Operating Environment: 10° - 40° Celsius (50° - 104°F)
- Battery: 9V alkaline battery
- Battery Life Indicator: Five levels indicating 80-100%, 60-80%, 40-60%, 20-40%, 0-20% of battery life remaining
- Regulatory Standards: UL2601-1, CVSA22.2 No. 601.1, CE Marked to MDD EC93/42, EN60601-1, EN60601-2

NERVE LOCATOR FUNCTION

- Audible “chirp” pulse amplitude indicator frees operator from having to watch the display

OPTIONAL SOLOSTIM™ FOOT CONTROL ALLOWS HANDS-FREE OPERATION IN NERVE LOCATOR MODE

- Dual current range (1.5 or 5.0 mA) with SoloStim provides a wide range when distant from nerve, and fine control when close to nerve
- Supported by Life-Tech’s complete selection of peripheral nerve block products, including the clinically proven ProBloc™ single injection needles and ProLong™ continuous anesthesia sets

Life-Tech
Life-tech International

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Stafford, TX 77497-1849
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email: anesales@life-tech.com
website: www.life-tech.com
MINISTIM®
PERIPHERAL NERVE STIMULATORS

**MINISTIM** MS-1B & MS-IV
- Cost-effective
- Simple to use
- Durable & reliable
- Compact design

**MS-IV is Electrosurgery certified**

MiniStim® MS-1B and MS-IV peripheral nerve stimulators can be used for neuromuscular monitoring in operating room, post anesthesia care and critical care environments.

**MiniStim® MS-1B & MS-IV INCLUDE:**
- (1) pair EL-2MTP, 2 extension leads
- DP-MTP Diagnostic Probe
- Touch-proof connectors

**SPECIFICATIONS (MiniStim MS-1B)**
- **Twitch:** 2 pulses per second
- **Tetanus:** 50 pulses per second
- **Train-of-Four:** Hold Twitch control down for 4 pulses
- **Output Current:** 30 milliamperes maximum
- **Stimulus Pulse:** 250 microseconds, square wave monophasic
- **Power:** 7.5V alkaline battery
- **Case:** Durable ABS plastic
- **Size:** 1.25” x 0.875” x 2.5” (L x W x H)
- **Weight:** 3 oz. (85 gm)

*Low Battery and Open Circuit Indicator*

**WARRANTY**
2 YEAR WARRANTY

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.

*Tests indicate no malfunction of any kind with an electrosurgery scalpel or cautery operating more than 12” from the stimulator.

**Requires return of sample request card.**

Cautions: Federal (USA) law restricts this device to sale by or on the order of a physician.
**SPECIFICATIONS (MiniStim MS-IV)**

- **3 YEAR WARRANTY**
- **Twitch:** 1 pulse per second
- **Tetanus:** 50 Hz: 50 pulses per second
  - 100 Hz: 100 pulses per second
- **Double Burst:** Two 50 Hz Trains of 60ms duration and 750ms apart (on demand)
- **Train-of-Four:** 4 pulses for 2 seconds (on demand)
- **Output Current:** Adjustable 0-50mA
- **Output Voltage:** 450 volts (±10%)
- **Stimulus Pulse:** 220 microseconds, square wave monophasic
- **Power:** 9V alkaline battery
- **Case:** Durable ABS plastic
- **Size:** 2.4” x 0.8” x 4.2” (L x W x H)
- **Weight:** 5 oz. (142 gm)

Specifications subject to change without notice.

**ACCESSORIES (Touch-proof)**

- **SL-XS:** Snap on connector extension leads. Touch-proof.
- **EL-5TP:** Eight Foot Extension Leads with banana plugs on each end and detachable alligator clips. Color-coded for polarity identification. Touch-proof.
- **EL-2MTP:** Two Foot Extension Leads with small alligator clips. Color-coded for polarity identification. Touch-proof.
- **DP-1NTP:** Bipolar probe. Touch-proof.
- **DP-MTP:** Bipolar probe for MiniStim. Touch-proof.
- **TPRN-12S:** Twelve Inch Tip Plug to Regional Needle Cable. Connects Regional Needle to Nerve Locator. Touch-proof.
- **TPTJ-24S:** Seven Foot Tip Plug to Tip Jack Cable. Connects TPRN-12 to Low Output of NS-2CA/DX. Touch-proof.
- **H1543:** Eight Foot Red Snap on Connector Extension Leads. Connects N.S.-2CA/DX Low Output to Surface Electrodes. Touch-proof.

For description and prices, refer to Price List.

**STIMITRODE SPECIFICATIONS**

- **Materials:** Sensitive Ag/AgCl element with hypoallergenic conductive solid gel
- **Size:** 0.875” x 0.875” (packaged in box of 60)
  - Designed for use with peripheral nerve stimulators, ENG and ECG.
  - A solid conductive material is incorporated into the adhesive and is not affected by changes in temperature or humidity.
  - Small enough for convenient placement on the ulnar or facial nerve.

**STIMITRODE**

Can be easily spaced for use with the bipolar probe.

For description and prices, refer to Price List.
POCKET-SIZE DIGITAL NERVE LOCATOR OPTIMIZES
EASE AND CONVENIENCE OF PERFORMING PERIPHERAL
NERVE BLOCKS

- Large, bright, easily read LCD continuously displays
  all instrument settings and status parameters.

- Pause mode allows changing stimulus parameters
  without stimulating.
- Audible “chirp” indicator of pulse delivery
  and amplitude frees the operator from having
  to watch the display.
- Chirp volume is adjustable to be optimal
  for any environment.
- Adjustable pulse width allows selective stimulation
  of motor or sensory fibers.
- Both audible and visual warnings indicate
  any discrepancy between actual current and
  selected current.

- Large, high sensitivity current control knob.
- Detachable lead set allows quick and
  easy replacement of patient leads.

Optional protective boot
or IV pole mount bracket.
SOLOSTIM™ FOOT CONTROL

- Dual current range (1.5/5.0mA) provides wide range when distant from nerve and narrow range with finer control when close to nerve.
- Hands-free operation increases the ease, rapidity and accuracy of current adjustment and in many facilities eliminates the need for an assistant.

INEFFICIENT THREE-STEP CONTROL VERSUS DIRECT CONTROL BY CLINICIAN

Voice command → Received by assistant → Who changes pulse current

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Dimensions (W x D x H):</td>
<td>2.9” (7.3cm) x 5.5” (14cm) x 1.4” (3.4cm) including knob</td>
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<tr>
<td>Weight:</td>
<td>9.6 oz (275g) with 9V battery</td>
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<tr>
<td>Operating Environment:</td>
<td>10° - 40° Celsius (50° - 104°F)</td>
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<td>Battery:</td>
<td>One 9V alkaline battery</td>
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<td>Output Current:</td>
<td>0.05-5.0mA ± 1% into a load of 12k Ohms. 0.05-1.5mA range selectable with SoloStim foot control</td>
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<td>Pulse Width:</td>
<td>50, 100, 300, 500, 1000 microseconds ± 10%</td>
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<tr>
<td>Pulse Rise Time:</td>
<td>Less than 5 microseconds with 2KΩ load</td>
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<tr>
<td>Pulse Frequency:</td>
<td>Selectable: 1 Hz or 2 Hz ± 2%</td>
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<td>Audible Pulse Amplitude Indicator:</td>
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<tr>
<td>Battery Life Indicator:</td>
<td>Five levels indicating 80-100%, 60-80%, 40-60%, 20-40%, 0-20% of battery life remaining</td>
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<td>Regulatory Standards:</td>
<td>UL2601-1, CSA22.2 No. 601.1, CE Marked to MDD EC93/42, EN60601-1, EN60601-2</td>
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</table>

COMPLETE SELECTION OF NERVE BLOCK PRODUCTS

Life-Tech's complete selection of peripheral nerve block products includes the clinically proven ProBloc single injection needles and ProLong continuous anesthesia sets.

Life-Tech
Life-Tech International

P.O. Box 1849
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ML0038 Rev A
NERVE BLOCK NEEDLES
Life-Tech’s insulated nerve block needles are available in three styles and three tip designs. Each style and tip design is available in several gauges and lengths to meet the requirements of a wide variety of nerve block procedures. Medical grade insulation on all needles localizes the stimulating current to the needle tip.

LASER-STRIPPING TECHNOLOGY
- Provides clean insulation removal with sharp, defect-free boundary.
- Creates limited conductive area on lumen side of needle tip to localize stimulation to the anesthetic’s exit point.
- Produces consistent conductive areas in different size needles insuring repeatable stimulation characteristics from procedure to procedure.

NEEDLE TIP DESIGNS
- BLOCK BEVEL LASER-STRIPPED TIP
  - Meets requirements of anesthesiologists who prefer a blunter needle tip to minimize nerve trauma.
  - Provides precise stimulation pattern for tip placement.
- CHIBA TIP WITH GROUND CONDUCTIVE AREA
  - Meets requirements of anesthesiologists who prefer a sharper needle to minimize tissue trauma and maximize needle control.
- TRANSPARENT, ERGONOMICALLY DESIGNED HUB
  - Molded arrow provides both visual and tactile indication of bevel orientation.
  - Easy to hold and manipulate.
  - Enables easy observation of aspirated blood without contaminating the injection tubing set.
**PL SERIES STRAIGHT TIP NEEDLES**
- Straight tip facilitates accurate placement and minimizes tissue trauma.
- 30° atraumatic needle bevel.
- 19 g, thin wall needle minimizes outside diameter while maximizing lumen diameter.
- Tactile needle orientation indicator facilitates the procedure.

**PLT SERIES NEEDLES**
- Tuohy beveled 18 gauge needles specifically designed for plexus blocks.
- Tip angled to create optimal catheter exit direction for orthogonal approach.
- Tactile needle orientation indicator facilitates the procedure.

**CONTINUOUS BLOCK CATHETERS**
- Specifically designed for continuous nerve block anesthesia.
- Smaller diameter minimizes tissue trauma.
- Flexibility optimized by clinical testing to facilitate insertion, yet minimize tissue trauma.
- Catheter thread-assist guide reduces procedure duration.

**PROBLOC™ SINGLE INJECTION NEEDLES**
- Available in three configurations:
  - HN1 Style – Needle Only
  - HN2 Style – Needle with Injection Tube Attached
  - HN3 Style – Injection Tube and Stimulating Cable Attached

**PROBLOC SC DESIGN**
- 25 gauge and block-bevel point make these the needles of choice for procedures like:
  - Interscalene approach to the brachial plexus,
  - Pediatric regional blocks,
  - Botox blocks.

**PROLONG® CONTINUOUS NERVE BLOCK SET**
- Kits containing all materials required for performing nerve blocks and prolonging the anesthesia after the initial block.

**PROLONG MICRO CATHETER FOR PEDIATRIC AND ADULT USE (SUPPLIED IN KITS)**
- Small outside needle (20G) and catheter (24G) diameter minimizes tissue damage and leakage around catheter path.
- Open tip catheter.
- Depth markings facilitate accurate placement.

**PROBLOC™ MICRO INJECTION NEEDLES**
- Available in three configurations:
  - HN1 Style – Needle Only
  - HN2 Style – Needle with Injection Tube Attached
  - HN3 Style – Injection Tube and Stimulating Cable Attached

**PROBLOC SC DESIGN**
- 25 gauge and block-bevel point make these the needles of choice for procedures like:
  - Interscalene approach to the brachial plexus,
  - Pediatric regional blocks,
  - Botox blocks.
CONTISTIM™ STIMULATING CATHETER

- Unique, patented design.
- Atraumatic ball tip protects against tissue damage while providing a uniform 360° stimulus pattern.
- Tip design creates a 360° outflow pattern that is symmetrical about the stimulus point.
- Three additional ports provide soaker action.

- Kink resistant catheter body with stiffness optimized for easy insertion.
- Unique, patented Stingray™ stimulus and fluid-path connector.
- EzTwist closure provides positive indication of secure catheter connection.
- Tactile “click” indicates closure.
- Flat profile enhances patient comfort and freedom of movement.

3300CS
- Grip-Lok™ 3300CS provides securement for the ContiStim Stingray catheter connector.

CONTINUOUS BLOCK KIT SELECTION

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<tr>
<th>Part Number</th>
<th>Needle Gauge</th>
<th>Usable Needle Length (mm/in)</th>
<th>Needle Tip Exposure (mm)</th>
<th>Needle Bevel</th>
<th>Teflon Coating</th>
<th>Sleeve Insulation</th>
<th>Catheter Gauge</th>
<th>Stimulating Catheter</th>
<th>Stingray™ Adaptor</th>
<th>Tuohy Bevel Adaptor</th>
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ProLong

| PLM-25      | 20           | 25/1                        | 1 Chiba             | X             | 24             | X             | X             |
| PLM-50      | 20           | 50/2                        | 1 Chiba             | X             | 24             | X             | X             |
| PLM-100     | 20           | 100/4                       | 1 Chiba             | X             | 24             | X             | X             |

ContiStim

| CS-50       | 19           | 50/2                        | 0.2 Block           | X             | 21             | X             | X             |
| CS-100      | 19           | 100/4                       | 0.2 Block           | X             | 21             | X             | X             |
| CS-150      | 18           | 150/6                       | 0.2 Block           | X             | 21             | X             | X             |
| CST-50      | 18           | 50/2                        | 0.2 Tuohy           | X             | 21             | X             | X             |
| CST-100     | 18           | 100/4                       | 0.2 Tuohy           | X             | 21             | X             | X             |
| CST-150     | 18           | 150/6                       | 0.2 Tuohy           | X             | 21             | X             | X             |
## PROBLOC™ NEEDLE SELECTION

All needles packaged 10 per box.

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<th>Gauge</th>
<th>Usable Length (mm/in)</th>
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<th>Injection set</th>
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</tbody>
</table>
NERVE STIMULATORS

Two stimulators are available. Their design is based on several years of clinical experience to optimize accuracy and ease of use.

**Tracer® III Digital Nerve Locator**
- Adjustable pulse width facilitates selective stimulation of motor sensory fibers.
- 0.01 current resolution facilitates precise nerve localization.

**EZstim™ II Nerve Stimulator**
- Automatically becomes either a full-function nerve locator or a neuromuscular block monitor depending on which lead-wire is attached.
- Unique eShield interference protection eliminates electrosurgery interference.

- Large bright, easily read LCD continuously displays all instrument settings.
- Continuous display battery status indicator.
- Audible pulse amplitude indicator frees the operator from having to watch the display.
- Audible and visual open circuit warnings protect against false negative twitch responses.

### FEATURES TRACER III EZ STIM II

<table>
<thead>
<tr>
<th>Feature</th>
<th>Tracer III</th>
<th>EZstim II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twitch (1 or 2 Hz)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Train of Four</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Tetasus (50 or 100Hz)</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Double Burst Stimulus</td>
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<tr>
<td>Pause</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Selectable pulse width</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ability to preset starting current 0.01 mA current resolution</td>
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<tr>
<td>0.1 mA current resolution</td>
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<tr>
<td>Selectable range control</td>
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<td>✓</td>
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<tr>
<td>Volume control</td>
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<tr>
<td>9 volt battery</td>
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<tr>
<td>2 year warranty</td>
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<tr>
<td>Optional pole mount</td>
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</tr>
<tr>
<td>Optional foot control</td>
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</table>

* With the use of the foot control
* Used only with nerve block
NERVE BLOCK ACCESSORIES

SOLOSTIM® FOOT CONTROL FOR TRACER III AND EZstim II

- Hands-free operation increases the ease, rapidity and accuracy of current adjustment and in many facilities eliminates the need for an assistant.
- Dual current range (1.5 / 5.0 mA) provides wide range when distant from the nerve and fine control when close to the nerve.

LEAD SETS

NERVE LOCATOR

- RBW-5L for use with ProBloc and ProLong needles
- RBW-5L/BB for use with B Braun or Pajunk needles
- RBW-5U universal lead set accommodates both 1.5mm and 2mm connections.

NEUROMUSCULAR BLOCK MONITORING

- NSL-5 for use with surface electrodes and StimProbe when using EZstim II

OPTIONAL ACCESSORIES

SP1 STIMPROBE™

Surface stimulating probe for nerve localization for use with EZstim.

PB1 PROTECTIVE BOOT

MB5 MOUNTING BRACKET

Used with PB1 Protective Boot

EZ-CLIP QUICK CONNECTOR (TPRN-12S)

Allows quick easy connection of needles without pre-attached stimulating wire. Combining these needles with EZ-Clip creates a convenient and cost-effective regional nerve block needle system for use with HN1 and HN2 ProBloc.

GRIP-LOK CATHETER SECUREMENT SYSTEM

Provides a means of quickly and easily securing the indwelling catheter to the patient.

- Velcro closure provides easy access to catheter
- Flat profile provides patient comfort
- Easy to remove
- Grip-Loc 3300CS provides securement for the ContiStim Stingray catheter connector.