

# Guideline 4000 LP+™

## Neuromodulation Targeting System

The new microTargeting™ Guideline 4000 LP+™ neuromodulation targeting system features the power of the Guideline 4000™ in a light, portable package. Optimized for clinical use (user-specifiable channel count, streamlined setup, rugged design), the LP+ continues to support high-powered research (fully adjustable digital filters, wideband recording capabilities, straightforward data export and analysis). Featuring the Guideline 4000™ software version 1.4 release, the LP+ offers the most powerful targeting system on the market in a new, streamlined, affordable package.

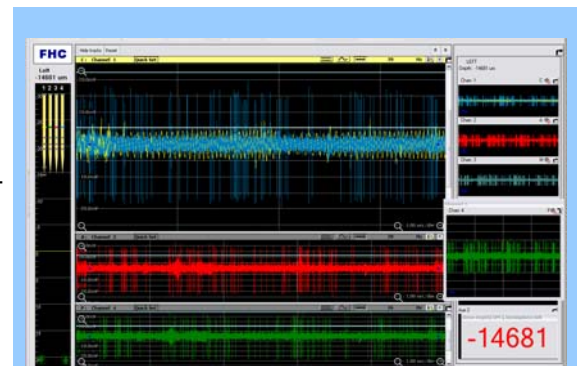
### Features:

- One to five recording channels supported, according to user preferences. Includes:
  - Two auxiliary analog inputs.
  - One auxiliary digital input.
  - Independent, earth-referenced analog outputs for all recording channels.
  - Standard 3.5 mm stereo jack for earth-referenced audio output.
- Micro- and macro-stimulation and impedance check supported on all channels.
- Independently adjustable digital filters on all channels.
- Powerful PC laptop and high-quality, self-powered desktop speakers included.
- Optional kit includes USB-powered neuro/craft™ QuickWave handheld function generator and model electrode for equipment testing and analysis.
- Supports one microTargeting™ STar™ Drive Motor/Encoder..
- Stimulation remote control included for ease of use.
- Optional “breakout box” to independently feed out channels to downstream recording/analysis systems.
- Independently adjustable sampling rate, adaptive line noise filter, and gain for each channel.
- Base unit less than \$40,000 (in USA), five-channel unit less than \$50,000.



### Software Features:

- Software environment the same as the Guideline 4000™.
- User profiles facilitate rapid operating room setup. Save equipment, recording, stimulation, and display preferences. Recall settings with one click.
- “Raster” tab permits viewing snapshots of multiple recordings simultaneously.
- On-screen, simultaneous display of low-frequency population activity and high-frequency spiking activity.
- Highly configurable display – move windows, resize panels, use a second monitor.
- Improved stimulation and impedance check functions.
- Export data directly to NeuroExplorer™ or MATLAB™ formats for study and analysis, or transmit data directly to a secondary data acquisition system using dedicated, earth-referenced analog output ports.



*Screenshot showing selected version 1.4 enhanced capabilities – monitor field potentials and spikes simultaneously, configure display layout, and save preferences for future use.*



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### Ordering Information:

#### MT-LPP / Guideline 4000 LP+™, includes:

- One microelectrode channel, expandable up to five channels
- Ultra-wideband preamps (0.1 Hz – 20 kHz), software configurable to 240 Hz – 20 kHz
- Stimulation remote control
- High-powered laptop
- Optical mouse
- External, self-powered desktop speakers
- Technical support available 24 hours a day, 7 days a week
- On-site installation
- On-site training prior to first case
- On-site support for up to three cases

#### MT-LPP-MEPK / Mobile electrophysiology kit, includes:

- MT-LPP / Guideline 4000 LP+™
- MT-LPP-HCSE / Single hard shipping case (car trunk or airplane check)
- 40-42-1-01 / QuickWave function generator
- 66-EL-MS / mT Controller
- 66-EL-RM / mT Controller remote
- 66-DA-ME / mT Controller motor
- MT-LPP-CONV / 12" inline dual serial-USB cable converter

### Accessories, sold separately:

#### MT-LPP-APM

Extra channel, up to 5 channels per LP+

#### MT-LPP-CART

Cart option, price includes installation

#### MT-LPP-CONV

USB-to-serial adaptor for mT Controller

#### MT-LPP-HCSE

Single hard shipping case (car trunk or airplane check)

#### MT-LPP-SCSE

Two soft shipping cases (airplane carry-on)

#### MT-LPP-BOX

Breakout box for analog output, digital input

#### 40-42-1-01

Handheld QuickWave function generator

#### 66-EL-LP

LP+ electrode cable

## Guideline 4000™

For users who require up to 10 channels, our Guideline 4000™ is available.

Please call 1-800-326-2905 for more info.



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