

# Guideline 4000™

## Neuromodulation Targeting System

### Software release version 1.4

FHC's Guideline 4000™ version 1.4 software release offers major usability feature enhancements for clinically-oriented customers, while furthering the Guideline 4000™'s reputation as the premier system for cutting-edge research centers.

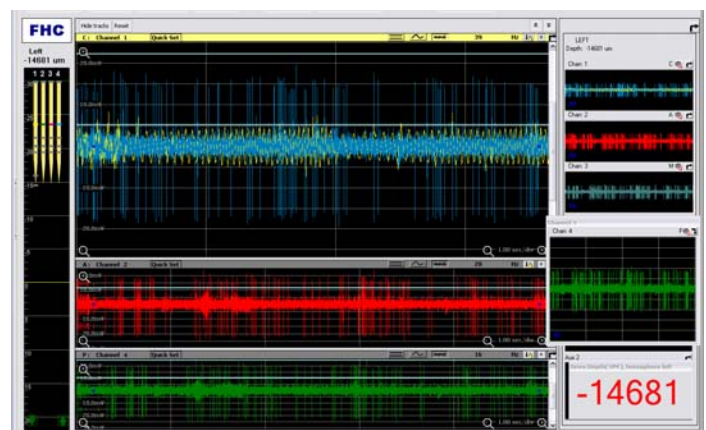


#### 1.4 Release Features:

- **User profiles facilitate rapid operating room setup**
  - Save equipment, recording, stimulation, and display preferences
  - Save multiple profiles on the same Guideline 4000™ system
  - Transfer profiles between systems
  - Factory-specified profiles provide known, “good” configurations
  - Onsite technical support sets initial profiles during system installation
- **A “raster” tab for viewing snapshots of all recorded events simultaneously**
  - Recorded snapshots are displayed according to depth
  - Snapshots can be classified, color-coded, and replayed from the raster tab
  - Analysis mode plots root-mean-square voltage versus depth for raster snapshots, providing an additional track selection/target identification tool
- **Local field potential recording capabilities (with optional hardware upgrades)**
  - Simultaneous low-frequency population and high-frequency spike data displays
  - Fully adjustable digital filters, sampling rate, adaptive line noise filter, and gain for each channel
  - Optional preamplifier hardware allows recording from 0.1 Hz-20kHz, 48 kHz sampling rate per channel
  - Optional “breakout box” to independently feed out channels to downstream recording/analysis systems
  - Export data directly to Matlab, Plexon or other data formats
- **Enhanced display configurability**
  - Resize, undock, and move signal analysis windows and channel thumbnails
  - Drag windows and thumbnails to a second display
  - Drag auxiliary channels (for accelerometer, EKG, etc.) into analysis windows to change zoom and to resize
  - Switch between triggered spikes mode, chart recorder (continuous/oscilloscope) mode, and raster view mode
  - Simultaneously display spikes and chart recorder data for any channel
- **Improved stimulation and impedance check functions**
  - Check impedance on multiple channels with one button press
  - Stimulate up to 60 seconds with one button press
  - Improved stimulation current readout



The raster tab enables users to easily compare electrode tracks.



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

**FHC**



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**Comprehensive technical support available 24/7**

**Ordering Info:**

[NEW VERSION 1.4 OPTIONS](#)

1.4 software is now standard in all new Guideline 4000™ Systems.

**MT-GL4K-UWD**

Two additional ultra wide-band channels. Each channel supports simultaneous high-frequency (i.e., spike) and low-frequency (i.e., local field potential) recording.

**MT-GL4K-EAX**

Enhanced AUX/ISO board, supports independent data output (via a breakout box) for each channel to downstream recording/analysis system.

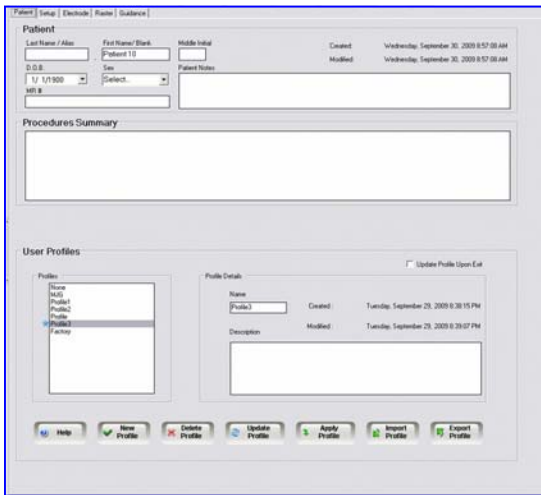
**MT-GL4K-UPG**

Upgrade of two existing channels to two ultra wide-band channels, required for fully functional LFP recordings.

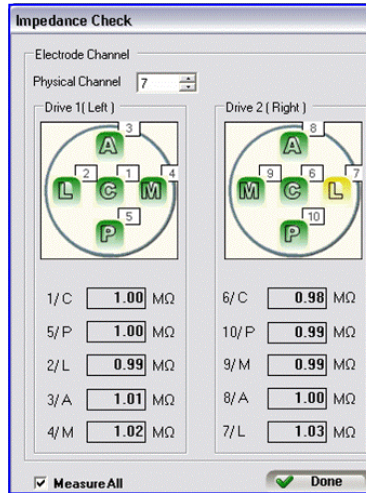
**MT-GL4K-SW1.4X**

Software upgrade to version 1.4.

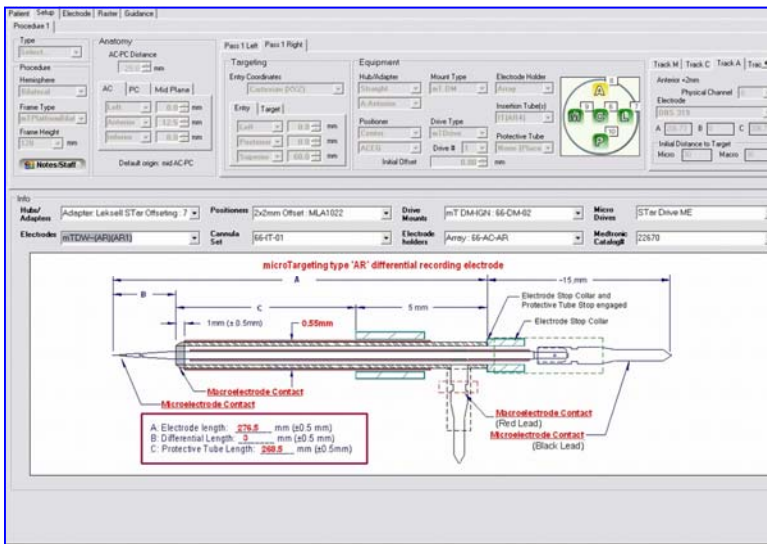
All upgrades require a site visit by our technical support team. Please contact FHC for more information and for pricing, 1-800-326-2905.



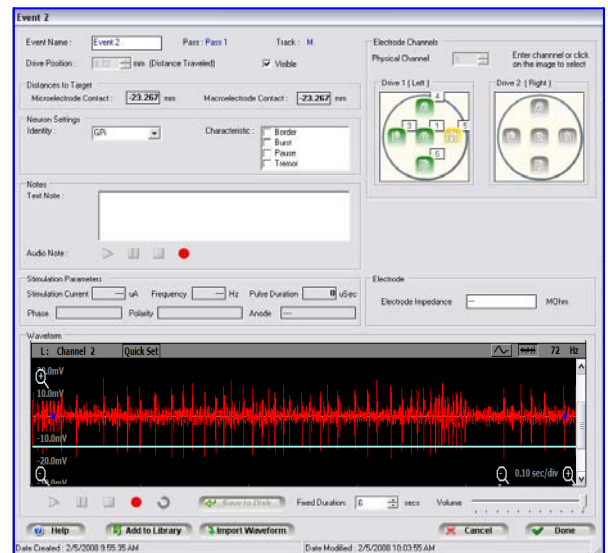
User profiles save user preferences for equipment and other settings for fast set-up.



Check electrode impedances on multiple channels with one button press.



Enter planning coordinates and use drop down menus for equipment selection. Quickly confirm equipment choices by viewing images in the setup panel.



Record single or multi-channel events with a single mouse click.



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