**NOTE: All systems and products should be considered as investigational-use only in the context of the NIH BRAIN Initiative.**

**VERCISE™ DEEP BRAIN STIMULATION SYSTEM**

Description: 16-channel rechargeable implantable pulse generator. Each of the 16 current controlled electrode contacts of the pulse generator can be programmed independently as an anode or a cathode and assigned -100% to +100% (1% step size) of the total current. This unique feature is designed to allow for precise control of the stimulation field and provide stability of the field over time. The size is 22 cc including the header.

Specifications:

| Parameter | Range |
|---|---|
| Amplitude[a] | 0.1 – 20 mA |
| Rate[b] | 2-255 Hz |
| Pulse Width | 10-450 µs |
| Cycle (On/Off) | 1s – 90 min |
| Stim Ramp ON | 1 – 10 s |
| Independent Areas of Stim (4 Programs with 4 Areas per Program) | 16 |

a) The programmable coverage for each individual contact is limited to 12.7mA. A programming interlock is enforced to limit the total output current to 0mA or less per coverage area. For example, a maximum current output of 12.7mA on one contact would limit the total summed current output on the remaining contacts to 7.3mA within one coverage area.
b) The rate is limited to 255Hz for a given area.

**NOTE: All systems and products should be considered as investigational-use only in the context of the NIH BRAIN Initiative.**

## VERCISE™ PC DEEP BRAIN STIMULATION SYSTEM

Description: Similar to Vercise DBS rechargeable system in terms of stimulation capabilities but uses a primary cell battery and has a different form factor (33cc including the header). Includes new externals and software for support of the Directional 8 contact segmented DBS lead.

**VERCISE™ GEVIA DEEP BRAIN STIMULATION SYSTEM**

Description: Similar to Vercise PC DBS system in terms of capabilities, externals, and directional lead support, but with the following changes:

- Uses a rechargeable battery.
- Has a smaller form factor (19.8 cc including the header).
- Includes an MRI mode designed for MR scans under specific conditions.