

# VERCISE™ DIRECTIONAL\* SYSTEM

Advancing DBS Therapy



\*A System that includes the Vercise PC or Vercise Gevia™ IPG and Vercise Cartesia™ Directional Lead(s) form the Vercise Directional System.

# RESHAPING DBS

When it comes to DBS, there is no one-size-fits-all solution. That's why Boston Scientific offers both the Vercise™ PC (non-rechargeable) and Vercise Gevia™ (rechargeable) DBS systems. Powered by MICC, both systems are designed to give you precise control over the size, shape, location, and direction of stimulation.

Vercise PC offers a larger battery capacity vs. the conventional non-rechargeable system, while miniaturizing electronics to conserve IPG size.<sup>1</sup>

Vercise Gevia rechargeable battery is designed and warranted to last at least 15 years, with no hard shutoff.<sup>2</sup> With Zero Volt™ Technology, the Gevia battery is designed to maintain capacity and resist corrosion during repeated charging cycles.

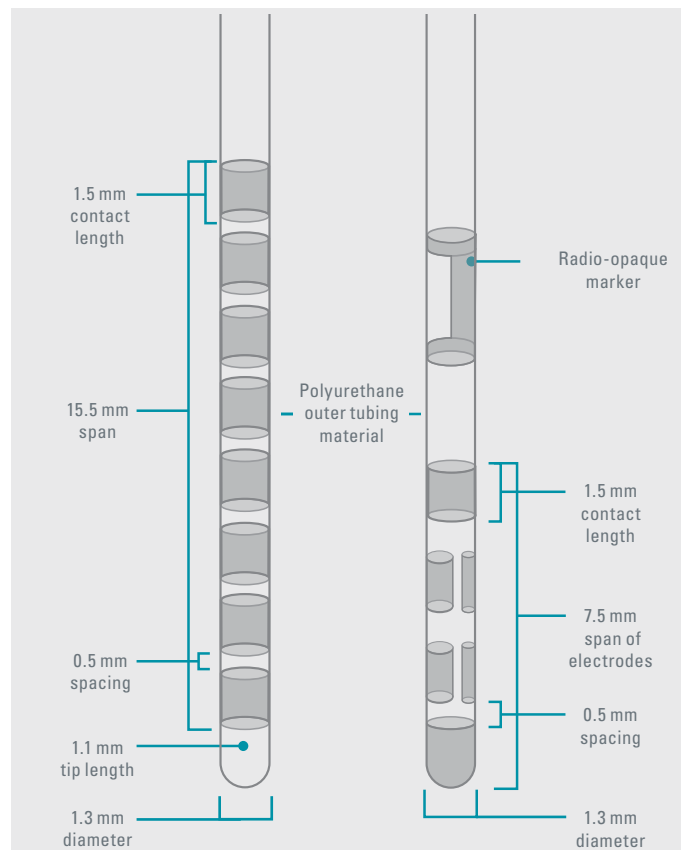
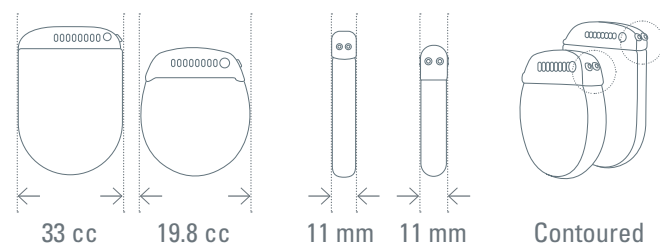
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## IMPLANTABLE PULSE GENERATOR DESIGN AND SPECIFICATIONS

Introducing the Vercise PC and Vercise Gevia DBS Systems.

Smaller, thinner, contoured shape,<sup>1</sup> designed for minimal erosion and optimal cosmesis.



### Vercise Standard Lead

Provides the best of both span and spacing

### Vercise Cartesia™ Directional Lead

Provides multi-directional stimulation for greater precision with fewer side effects

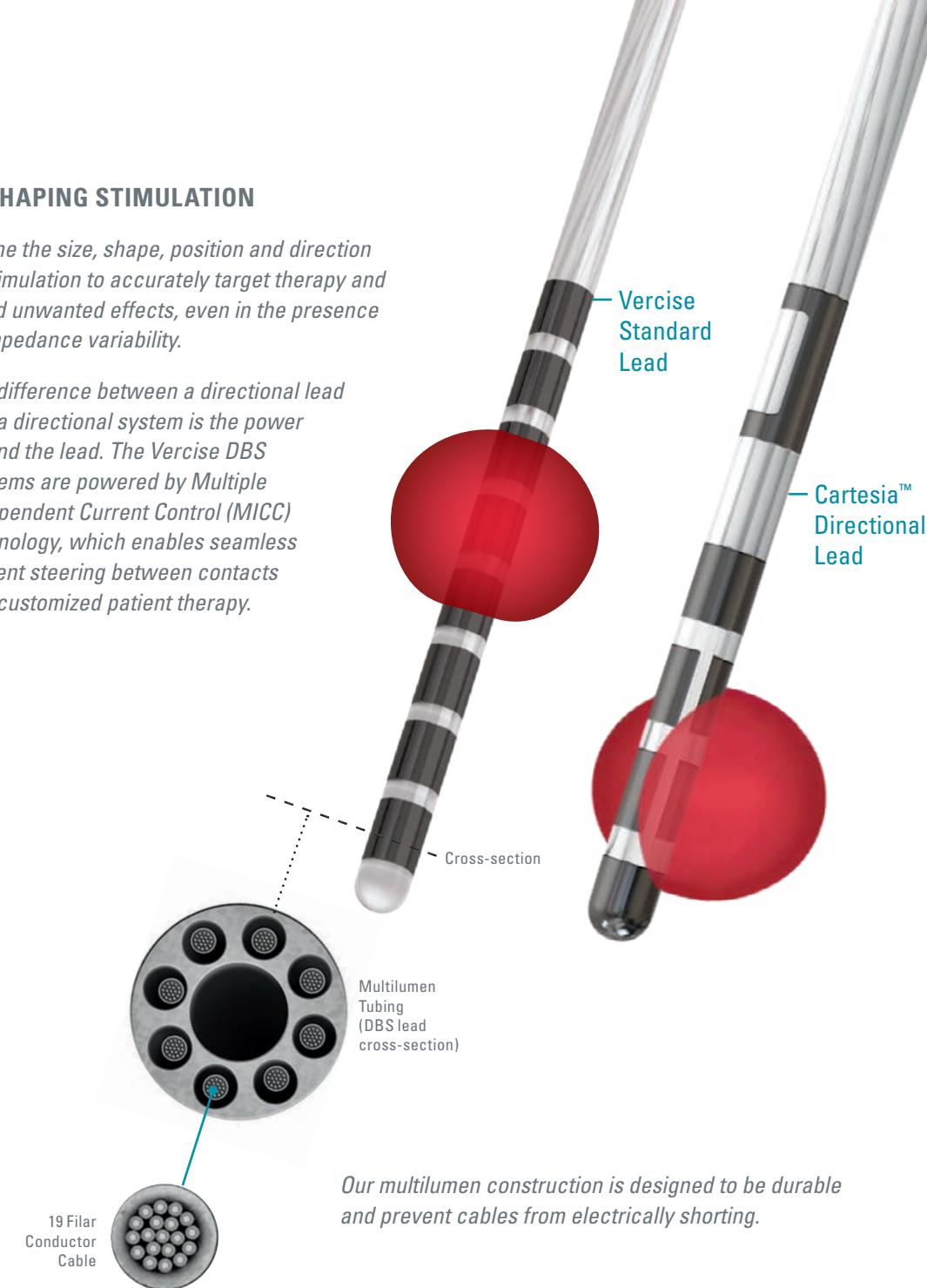
## LEAD DESIGN AND SPECIFICATIONS

Our two unique lead options are compatible with either the Vercise PC or Vercise Gevia System.

## RESHAPING STIMULATION

Define the size, shape, position and direction of stimulation to accurately target therapy and avoid unwanted effects, even in the presence of impedance variability.

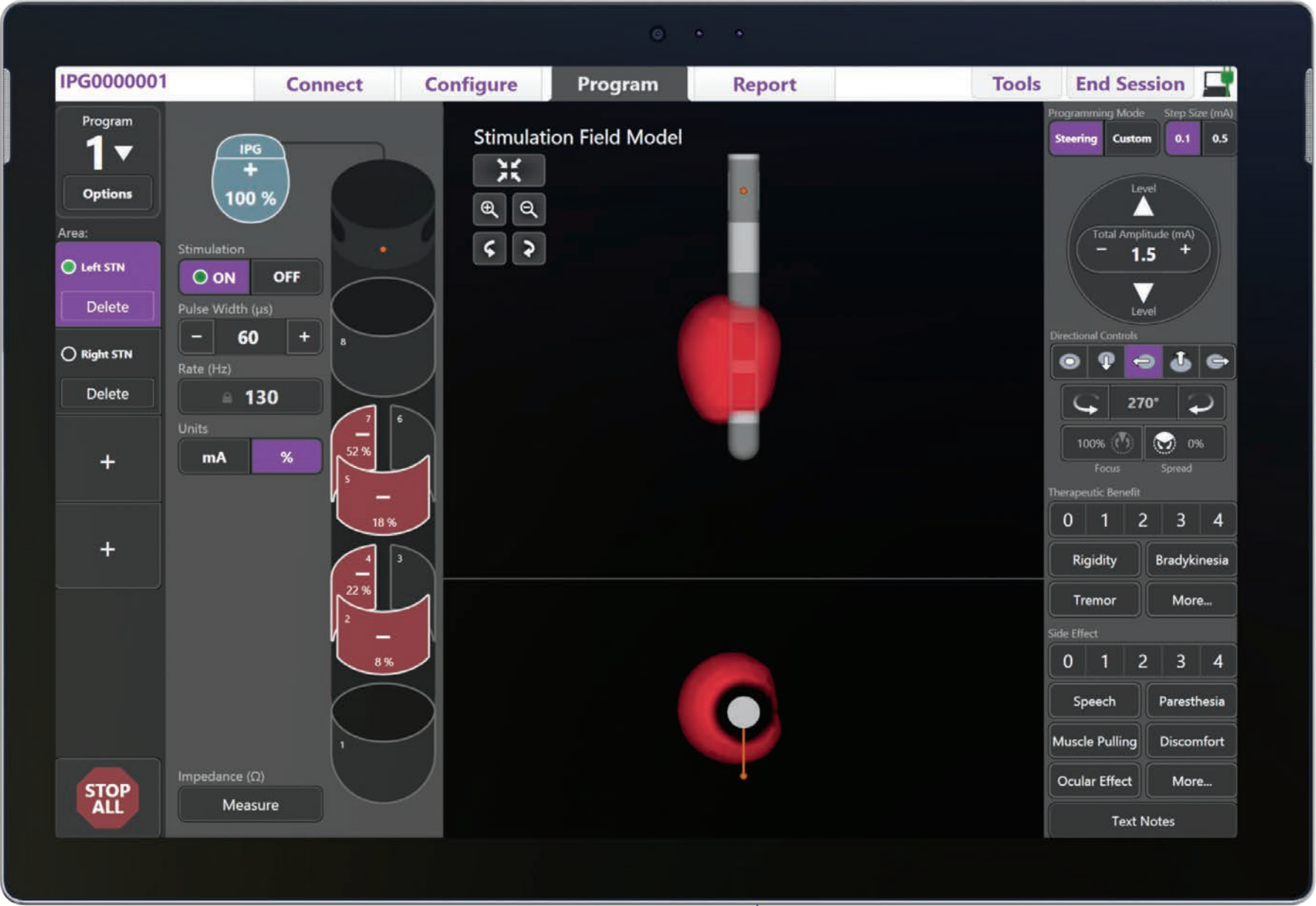
The difference between a directional lead and a directional system is the power behind the lead. The Vercise DBS Systems are powered by Multiple Independent Current Control (MICC) technology, which enables seamless current steering between contacts and customized patient therapy.



Our multilumen construction is designed to be durable and prevent cables from electrically shorting.

1. Vercise PC Implantable Pulse Generator Manual. Activa PC Multi-program neurostimulator-Implant manual. St Jude Medical Infinity Implantable Pulse Generator Clinician's Manual. Accessed MAY 2018.  
2. Vercise PC Implantable Pulse Generator Manual. Vercise IPG Warranty. Battery life is dependent on stimulation settings and conditions.



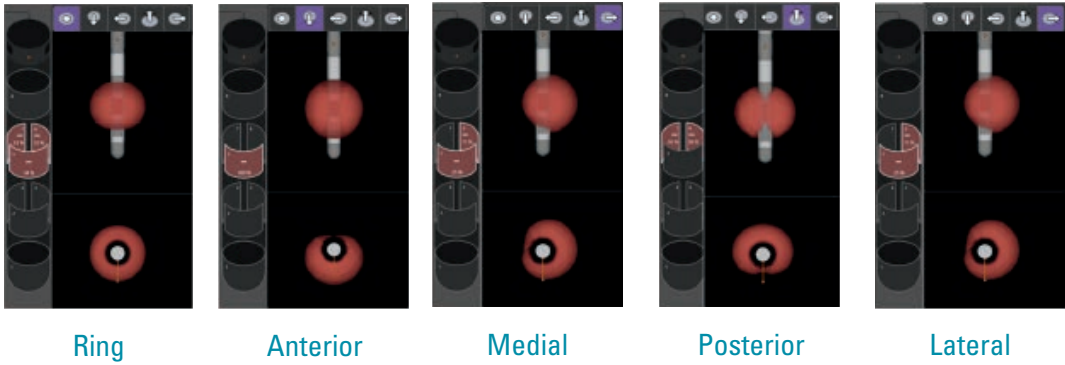


Expanded parameter settings allow for programming flexibility and options to treat a greater range of patients throughout disease.

STIMVIEW™ Technology helps visualize the volume of tissue being activated for the selected stimulation settings, and is designed to support the needs of DBS programmers with advanced simplicity, flexibility and ease of use.

## ONE-TOUCH PROGRAMMING

One-Touch Buttons make directional programming intuitive and simple.



PARAMETERS	PARAMETER RANGE
Amplitude	0.1 mA - 20 mA
Rate <sup>3</sup>	2 Hz - 255 Hz
Pulse Width <sup>4</sup>	20 - 450 µs
Cycle On / Off	1 sec - 90 minutes
Ramp On	1 - 10 seconds
Contact Connections	16
Independent Areas of Stimulation (4 programs with 4 areas per program)	16

3. The use of higher frequencies than the ones that are established (250 Hz) is the sole responsibility of the user.  
4. The use of lower pulse widths than established (60-450 µs) is the sole responsibility of the user.

## SIMPLY ADVANCED

The Vercise™ Neural Navigator 2.1 includes intuitive new programming software that can further personalization. Now clinicians can see each lead's selected stimulation field while configuring their patients' DBS programs.

PATIENT FOCUS

Designed with patient comfort in mind, both the Vercise™ PC and Vercise Gevia™ Systems feature a compact IPG with contoured edges to minimize erosion and a streamlined, easy-to-use remote control.



Wireless remote, intuitive controls and a broad telemetry range simplify the patient experience.

The Vercise charging system is completely wireless and allows for a wide range of motion.



\*\* Vercise Navigator Programmer Manual. Based upon modeling calculations for standard settings of 130 Hz, 60µs and 3 mA.  
\*\*\*Applies to leads DB-2201-45 and DB-2201-30 only. Refer to the ImageReady™ MRI Guidelines for Boston Scientific Deep Brain Stimulation Systems for Use indications, warnings and cautions.  
5. Refer to the M8 DFU for specific Medtronic leads and extensions compatibility.

VERCISE DBS PORTFOLIO

FEATURES	VERCISE Gevia	VERCISE PC DBS
Longevity	Rechargeable (15 years)	Primary Cell (4.5 years**)
MICC Technology	✓	✓
Lead Compatibility / Directional System	Vercise 8 Contact Lead Vercise Cartesia Directional Lead	Vercise 8 Contact Lead Vercise Cartesia Directional Lead
MRI Conditionality	Leads Only ***	Leads Only ***
Wireless Remote Control	91.4 cm telemetry	55.8 cm telemetry
Cordless Charging	✓	Not Applicable
Size & Shape	19.8 cc	33 cc
Innovation w/ Adapters	M8	M8

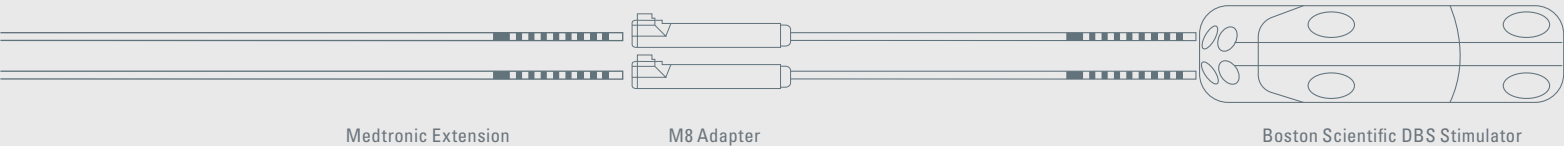
CONNECT TO MEANINGFUL INNOVATION

The M8 Adapter provides access to the simply advanced stimulation capabilities of Vercise implantable pulse generators (IPGs) by connecting to existing Medtronic wiring<sup>5</sup> during a battery replacement procedure.

- Replace current IPG with a smaller, thinner and contoured Vercise IPG.
- Vercise Gevia offers 15 years battery longevity while reducing potential surgical interventions.
- Gain access to the programming flexibility of Vercise Neural Navigator 2.1.



**M8 Adapter:** If patients are looking to switch to a Boston Scientific Stimulator from a Medtronic battery, the M8 Adapter conversion system allows them to keep their wiring in place without undergoing lead revision surgery.



**Indications for Use:** The Vercise™ Deep Brain Stimulation (DBS) Systems are indicated for use in bilateral stimulation of the subthalamic nucleus (STN) as adjunctive therapies in reducing some of the symptoms of moderate to advanced levodopa-responsive Parkinson's disease (PD) that are not adequately controlled with medication.

Refer to the Vercise M8 Adapter Directions for Use for indications, warnings and cautions. The Vercise M8 Adapter is compatible with the following Medtronic lead and extension model numbers: 3887, 3889, 3708640, 3708660, 3708695, 3708540, 3708560, 3708595.

**Contraindications, warnings, precautions, side effects:** Vercise DBS Systems, or any of their components, are contraindicated for: Diathermy as either a treatment for a medical condition or as part of a surgical procedure, Electroconvulsive Therapy (ECT) and Transcranial Magnetic Stimulation (TMS) as the safety of these therapies in patients implanted with Vercise DBS Systems has not been established, Magnetic Resonance Imaging (MRI), patients who are unable to operate the system, patients who are poor surgical candidates or who experience unsuccessful test stimulation. Refer to the Instructions for Use provided with Vercise DBS Systems or BostonScientific.com for potential adverse effects, warnings, and precautions prior to using this product.

**Boston  
Scientific**  
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25155 Rye Canyon Loop  
Valencia, CA 91355 USA

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