

**GET A SENSE
OF WHAT'S POSSIBLE**
SEE DBS FROM A
NEW PERSPECTIVE

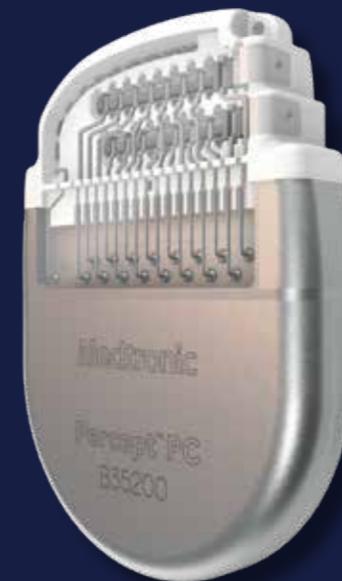


**PERCEPT™ PC NEUROSTIMULATOR
WITH BRAINSENSE™ TECHNOLOGY**
FOR DBS THERAPY

Medtronic
Further, Together

With the only commercially available sensing technology in deep brain stimulation (DBS),* the Percept™ PC device ushers in a new era of DBS therapy for Parkinson's disease, essential tremor, dystonia, obsessive compulsive disorder (OCD), and epilepsy.

Based on decades of commitment to DBS, Medtronic is redefining what's possible with the Percept™ PC device. It enables you to personalize therapy based on objective data and brings forth several leading-edge innovations in a modern, ergonomic, easy-to-use solution that you and your patients want.



**BRAINSENSE™
TECHNOLOGY**

**3T
MR CONDITIONAL**

**SMART
BATTERY**

**ENGAGING,
INTUITIVE
PROGRAMMING**

*Medtronic's Activa™ PC+S device received CE Mark on January 17, 2013, but was not commercially distributed.

UNPRECEDENTED INSIGHTS — INSIDE AND OUTSIDE THE CLINIC

The Percept™ PC device features BrainSense™ technology, designed to capture brain signals (local field potential, or LFP) using the implanted DBS lead. These signals can be recorded simultaneously while delivering therapeutic stimulation, inside and outside the clinic.*

You can correlate these brain signals with stimulation and events capturing medication, symptoms, or side effects — to deliver personalized, data-driven treatment and adjust as patient needs evolve.**

The Percept™ PC device uses embedded software for patented processing and analysis of brain signals in real time. These signals are stored on the device and can be viewed using the intuitive clinician programmer. They can also be exported in JSON, a machine-readable format, for offline data processing.

*Signals may not be present or measurable in all patients.
**Clinical benefits of brain sensing have not been established.



**BRAINSENSE™ TECHNOLOGY IS INFORMED BY
10+ YEARS OF SENSING RESEARCH**

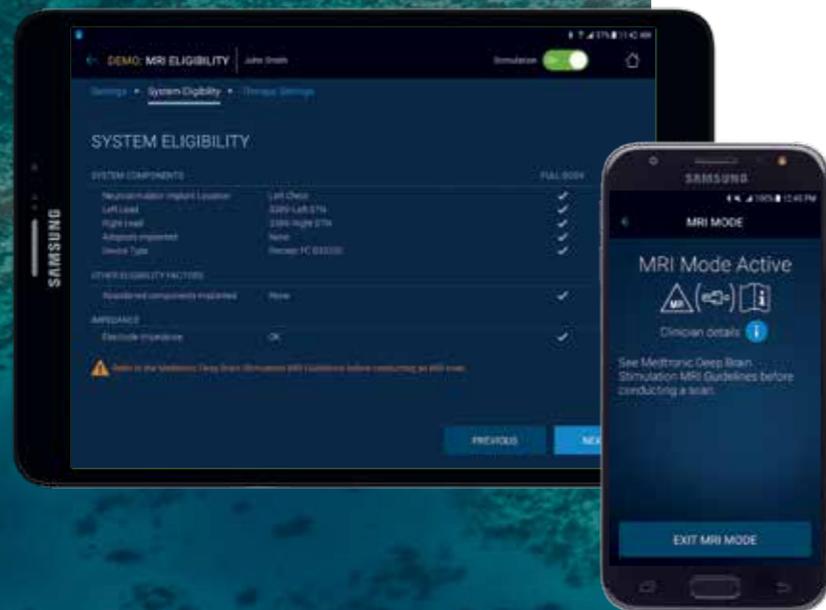
EMPOWER YOUR PATIENTS

You can configure up to four custom events — such as medication adherence, side effects, and experiencing on/off state — that your patients can conveniently capture digitally using the intuitive patient programmer.

You can then view the events they've marked at their next visit right on your clinician programmer. These details can help you identify trends, and you have the option of correlating the events with brain signals.



THE ONLY 1.5T AND 3T MR CONDITIONAL DBS SYSTEM

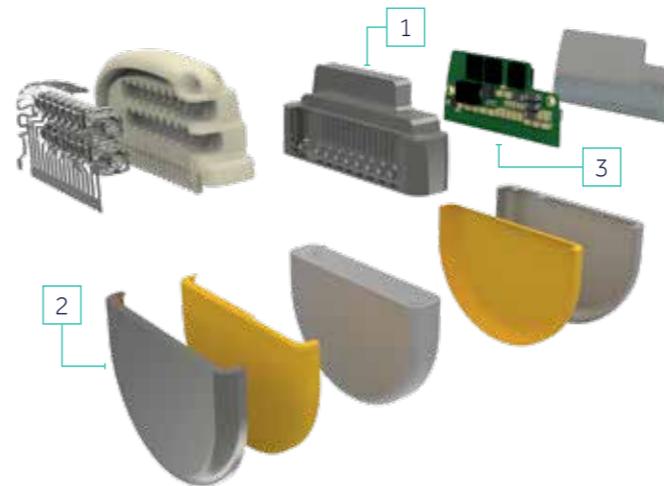


The Percept™ PC device adds full-body* 3T MRI eligibility for DBS patients, so they may benefit from the cutting-edge medical imaging when they need it. Plus, using a bipolar therapy group allows therapy to be ON during an MRI scan.

Now clinicians can use **MRI Eligibility** workflow on the clinician programmer to check MRI eligibility, generate an eligibility report, and place a patient's device into the appropriate state for an MRI exam.

Patients can use **MRI Mode** on their patient programmer for a streamlined path to conditionally safe MRI scans, without needing to visit the clinician managing their DBS therapy.

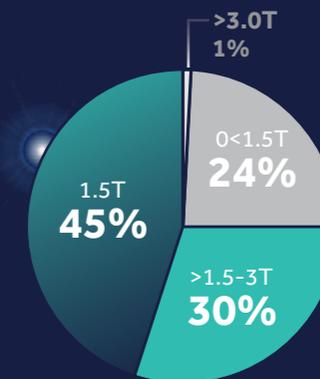
*Medtronic DBS systems are MR Conditional, which means they are safe for MRI scans only under certain conditions. If the conditions are not met, the MRI could cause tissue heating, especially at the implanted lead(s) in the brain, which may result in serious and permanent injury or death. Refer to the MRI Guidelines for Medtronic Deep Brain Stimulation Systems for a complete list of conditions: <http://professional.medtronic.com/mri>



- 1 | **Filtered feedthrough technology** mitigates radiofrequency (RF) energy from entering and damaging the device.
- 2 | **Minimal ferrous material** reduces potential for unwanted device and lead movement caused by magnetic pull.
- 3 | **Protection diodes** help prevent failure when exposed to electromagnetic interference.

The expanded MRI eligibility of the Percept™ PC device supports the most prevalent and fastest-growing MRI modalities.

European MRI systems market, by field strength, 2018¹¹



BCC Research Report HLC078D: Medical Magnetic Resonance Imaging (MRI) Technologies and Global Markets (July 2018)

ENGINEERED FOR PATIENT COMFORT

Ergonomically designed, the Percept™ PC device offers enhanced comfort for patients*.

20% SMALLER** THAN ACTIVA™ PC DEVICE

20% THINNER*** THAN ACTIVA™ PC DEVICE



SLEEK, CURVED DESIGN

*Medtronic data on file
 **In overall device volume
 ***Refers to case thickness

DESIGNED TO LAST LONGER — AND KEEP YOU INFORMED

The Percept™ PC device is smaller, yet offers improved longevity. This is due to a synergistic combination of a new proprietary battery composition, which allows for higher-energy-density packaging, and efficient low-power electronics.

The smart battery technology allows real-time prediction of remaining battery life,* so you and your patients can maximize available battery capacity and have elevated peace of mind while planning for device replacement.

>5 YEARS BATTERY LIFE**

>15% INCREASE IN PROJECTED LONGEVITY OVER ACTIVA™ PC DEVICE***

*Based on current actual battery level and therapy settings from last seven days
 **For median energy use in DBS for patients with Parkinson's disease, with moderate (up to 2 months per year) BrainSense™ technology usage
 ***For median energy use in DBS for patients with Parkinson's disease, with equivalent settings and no BrainSense™ technology usage

REMAINING BATTERY LIFE



INSIGHTFUL. INTUITIVE. SECURE.

The DBS clinician programmer is now even more feature-rich and ready to streamline your programming session with the information you need, quickly and intuitively.

- High-contrast touchscreen interface
- Enhanced task-based workflows
- Intuitive, patient-specific customization options
- Expanded reporting and export functionality



DATA SECURITY

The clinician and patient programmers use multi-layer encryption and proprietary wireless telemetry in a worldwide-licensed frequency band to ensure information is exchanged in a secure, confidential manner.

SIMPLE. PERSONAL. SMART.

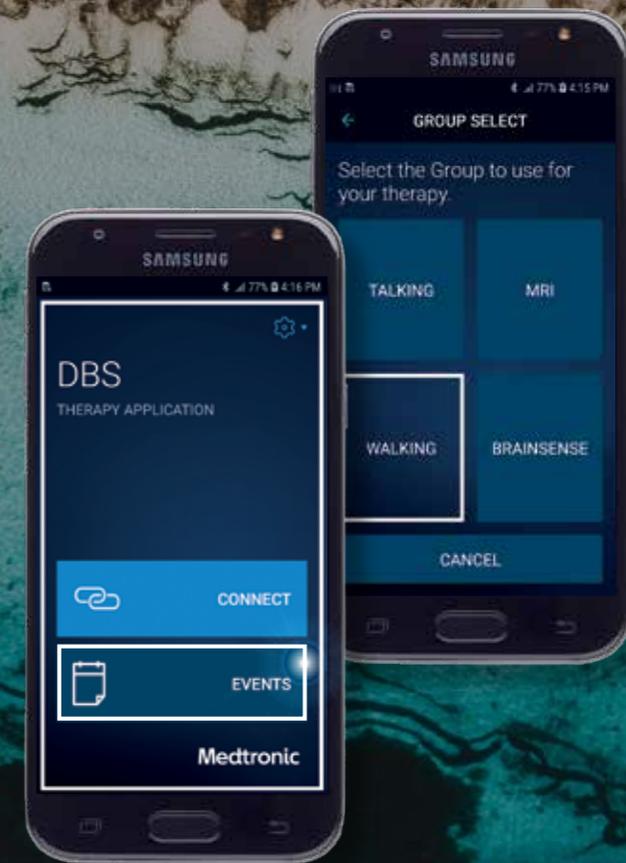
The DBS patient programmer is enhanced so patients can more easily and conveniently engage with their therapy.

CUSTOM NAMES FOR THERAPY GROUPS

The patient programmer enables patients to easily correlate treatment and everyday activities. You can assign custom names to therapy groups, such as walking, sleeping, and talking, which patients can use to adjust therapy throughout their day as they switch activities.

CUSTOM EVENTS

The patient programmer now integrates elements of a motor diary. You can configure up to four custom events to track digitally. A patient or caregiver can capture such an event using the patient programmer, and you can assess frequency and occurrence of these events during clinic visits.



LEARN MORE ABOUT PERCEPT™ PC NEUROSTIMULATOR WITH BRAINSENSE™ TECHNOLOGY AT [MEDTRONIC.EU/PERCEPT](https://www.medtronic.eu/percept)

Brief Statement:

See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events. If using an MRI SureScan® device, see the MRI SureScan® technical manual before performing an MRI. For further information, contact your local Medtronic representative and/or consult the Medtronic website at [medtronic.eu](https://www.medtronic.eu)

Medtronic

Europe

Medtronic International Trading Sarl
Route du Molliau 31
Case postale
1131 Tolochenaz
Switzerland
Tel: +41 (0) 21 802 70 00
Fax: +41 (0) 21 802 79 00

Medtronic Limited

Building 9
Croxley Park
Hatters Lane
Watford, Hertfordshire
WD18 8WW
www.medtronic.co.uk
Tel: +44 (0) 1923 212213
Fax: +44 (0) 1923 241004

UC202002879 EE © Medtronic, Inc.
2019. All Rights Reserved. Printed in Europe.

[medtronic.eu/percept](https://www.medtronic.eu/percept)