Innovation Focused on Pain Relief™
TREATING PAIN IS COMPLEX. MAKING IT SIMPLE IS OUR MISSION.

It all started with the launch of the Precision™ Spinal Cord Stimulator (SCS) System. As the world’s first system with 16 dedicated power sources, a rechargeable battery, and innovative programming software, we advanced the world of SCS. While Precision was ahead of its time, we knew we were just getting started.

Our vision was to define the future of SCS by providing more pain relief to a broader spectrum of patients. That was the guiding principle in the development of our next-generation system.

The result is a highly innovative system that we’ve engineered to give you what matters most: more coverage than ever before, an entirely new level of flexibility, and advanced control for delivering stimulation in ways never before possible.

Innovation Focused on Pain Relief™
Precision Spectra™ SCS System.
The world’s first SCS system with 32 contacts and 32 dedicated power sources, the Precision Spectra™ SCS System is designed to provide unprecedented COVERAGE of the spinal cord.

Four ports and an unrivaled percutaneous lead portfolio give you more FLEXIBILITY designed to treat your patient’s pain, both now and in the future.

Guided by our next-generation 3D programming algorithm, Precision Spectra is engineered to provide ADVANCED CONTROL for delivering stimulation in ways never before possible.

Designed for more coverage, more flexibility, and advanced control, Precision Spectra is engineered to provide more pain relief to a broader spectrum of patients.
THE WORLD’S FIRST SCS SYSTEM WITH 32 CONTACTS AND 32 DEDICATED POWER SOURCES, THE PRECISION SPECTRA™ SYSTEM IS DESIGNED TO PROVIDE UNPRECEDENTED COVERAGE OF THE SPINAL CORD.

More coverage ➔ Designed for more pain relief

Pain relief starts with pain coverage. In a key study, Richard North, MD, found a strong relationship between pain coverage (paresthesia overlap) and pain relief.¹ And more coverage is what the Precision Spectra System is designed to provide.

Clinical study results may not necessarily be indicative of clinical performance. Results in other studies may vary.
**32 contacts and 32 dedicated power sources**

With twice the contacts and 32 dedicated power sources, the Precision Spectra™ System lets you cover more of the spinal cord than ever before.

**Seamless coverage for precise targeting**

Two Infinion™ 16 Leads driven by 32 dedicated power sources provide seamless mediolateral and rostrocaudal coverage over three vertebral levels.\(^2\,3\,4\)

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A Central Point of Stimulation (CPS) is the focal point of the stimulation field on the dorsal column. Fractionalizing current in 1% increments between two tightly spaced contacts provides 100 CPS. Single source systems or widely spaced contacts provide 3 CPS between adjacent contacts.\(^3\)

**CPS Calculations:**
- Image A: 8 CPS x 3 CPS = 24 CPS.
- Image B: 15 CPS x 3 CPS = 45 CPS.
- 700 CPS x 100 CPS = 70,000 CPS.
- Image C: 1,500 CPS x 100 CPS = 150,000 CPS.

**COMPUTATIONAL MODELING METHODS**

A volume conductor model of the low-thoracic spinal cord was created, and electric fields were calculated using ANSYS, a finite element modeling tool. The volume of activation (VOA) and the central point of the VOA were computed and are depicted in these figures.

Only cathodes applied on single or adjacent contacts were used in these models.

Computational modeling may not necessarily be indicative of clinical performance.

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**BEFORE PRECISION SPECTRA: TRADEOFFS**

Coverage gaps with two widely spaced 8-contact leads.\(^3\,5\)

Central Points of Stimulation (CPS) with a single power source: 24.

Seamless coverage with less vertebral span.\(^3\,5\,6\)

CPS with a single power source: 45.

CPS with 16 dedicated power sources: 70,000.

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**WITH PRECISION SPECTRA: MORE COVERAGE**

Two Infinion 16 Leads provide seamless coverage over three vertebral levels.\(^2\,4\)

CPS with 32 dedicated power sources: 150,000.
The Ultimate Trialing System

With two Infinion™ 16 Leads and two 1x16 OR Cables, the Precision Spectra System is designed to give patients the best chance for a successful trial.

• Twice the coverage of the spinal cord with the same number of needle sticks

• With 2 Infinion Leads, quickly identify the “sweet spot” for permanent lead placement
Trial leads migrate. Precision Spectra™ has you covered.

In a recent study, trial leads were reported to migrate over one vertebral level (an average of 24.3 mm +/- 11.3 mm). In addition, patient non-compliance may result in trial lead migration.

- Seamless coverage of three vertebral levels
- LeadSync™ Technology provides the ability to refocus the stimulation field in the event of relative lead migration

Clinical study results may not necessarily be indicative of clinical performance.
FLEXIBILITY

DESIGNED FOR A NEW LEVEL OF FLEXIBILITY.
FOUR PORTS AND AN UNRIVALED PERCUTANEOUS
LEAD PORTFOLIO FOR UNMATCHED FLEXIBILITY,
NOW AND IN THE FUTURE.
Flexibility for today
The Precision Spectra™ System’s four ports plus our broad lead portfolio give you an entirely new level of flexibility. Unprecedented new lead configurations provide more choices designed to manage your patient’s unique pain pattern.

Flexibility for the future
Prepare for the future with the option of implanting 16 contacts today, while leaving two ports in reserve. If pain patterns change or new areas emerge, you can adapt by implanting more leads for more coverage.
ADVANCED CONTROL

CONTROL STIMULATION IN WAYS NEVER BEFORE POSSIBLE.

- ILLUMINA 3D™ PROGRAMMING ALGORITHM
- FLUOROSYNC™ INTERFACE
- LEADSYNC™ TECHNOLOGY

Bionic Navigator™ 3D Programming Software

Precision Spectra™ Remote Control

FREELINK™ CORDLESS TECHNOLOGY
Illumina 3D™ Programming Algorithm

Leads exist in a complex 3-dimensional environment. The Illumina 3D Algorithm is the first and only programming software that takes this into account.

- Incorporates 3-dimensional lead location
- Simple “point and click” targeting
- Designed to focus paresthesia and reduce unwanted stimulation
- Designed to improve pain targeting

1. Rostrocaudal lead position
2. Mediolateral lead position
3. Dorsoventral lead position: CSF thickness

Generates advanced anode/cathode configurations to best target the selected central point of stimulation

Point and click targeting

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FluoroSync™ Interface

Visually intuitive and elegantly simple user interface.

- Select and place leads with drag-and-drop simplicity
- Programming software mirrors fluoro image
- Inputs the 3-dimensional lead location into the Illumina 3D™ Programming Algorithm
LeadSync™ Technology

The only programming software to account for lead offset.

• Use programming software to detect relative lead location
• Adjusts for lead offset by synchronizing contacts on parallel leads
• Ability to refocus the stimulation field
• Designed to account for relative lead movement during the trial, after the permanent implant, or during the procedure
FreeLink™ Technology

Featuring FreeLink Technology, enhanced cordless patient accessories are designed to simplify the patient experience. From functionality to aesthetics, the Precision Spectra™ System is designed to bring the patient experience to a whole new level.

- Cordless Remote Control
- Cordless Charger

- Longer wireless range
- Attractive design
- Easy-to-read, color screen
- Intuitive control with on/off, up/down simplicity
- Optional features can be enabled for advanced users

QuickCharge Technology designed for efficient charging
SUMMARY

COVERAGE
32 contacts. 32 dedicated power sources. Designed to provide unprecedented coverage.

FLEXIBILITY
Four ports plus an unrivaled lead portfolio for unmatched flexibility designed to cover your patient’s pain, both today and in the future.

ADVANCED CONTROL
Next-generation 3D programming algorithm, engineered to provide advanced control for delivering stimulation in ways never before possible.
**REFERENCES**


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**Indications for Use.** The Precision Spectra™ Spinal Cord Stimulator System (Precision Spectra System) is indicated as an aid in the management of chronic intractable pain of the trunk and/or limbs, including unilateral or bilateral pain associated with the following: failed back surgery syndrome, intractable low back pain, and leg pain. Contraindications, warnings, precautions, side effects. The Precision Spectra System is contraindicated for patients who: are unable to operate the Precision Spectra System, have failed trial stimulation by failing to receive effective pain relief, are poor surgical risks, or are pregnant. Refer to the Instructions for Use provided with the Precision Spectra System or ControlYourPain.com for potential adverse effects, warnings, and precautions prior to using this product. Caution: Federal (U.S.) law restricts this device to sale by or on the order of a physician.

Images courtesy of Boston Scientific Corporation.

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