

Precision™ Montage™ MRI 16 Contact Implantable Pulse Generator

Directions for Use

R_L ONLY

CAUTION: Federal law restricts this device to sale, distribution and use by or on the order of a physician.

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Guarantees

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Industry Canada Equipment Certification Number

IC: 9773A-SC1132

Additional Information

For Indications and related information, see the *Indications DFU* for your spinal cord stimulator system. For contraindications, warnings, precautions, adverse events summary, physician instructions, sterilization, component disposal, and contact information for Boston Scientific, refer to the *Information for Prescribers DFU* for your spinal cord stimulator system. For other device-specific information not included in this manual, labeling symbols, and warranty, refer to the appropriate DFU as listed on your *Reference Guide*. For SCS Implant conditions for MRI eligibility, refer to the appropriate MRI guidelines manual for your SCS system as listed on your *Reference Guide*.

IUSA For information regarding the Patient Identification Card, FCC rules and for clinical studies supporting the clinical use of the neurostimulation system, refer to the *Information for Prescribers* manual.

Product Model Number

Model	Description	
SC-1200	Precision™ Montage™ MRI 16 Contact Implantable Pulse Generator	1

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Description

The Precision™ Montage™ MRI Implantable Pulse Generator (IPG) system is intended to treat chronic pain by electrically stimulating the spinal cord. The multi-channel, multi-electrode device capability provides flexibility in conjunction with ease of programming. A rechargeable battery increases IPG longevity and output capability while reducing size and device replacement surgeries. The IPG is controlled by a handheld Remote Control, and can be engaged by a clinician programmer using proprietary programming software. Periodically, the IPG battery requires replenishing with an external RF charging device.

Compatible Leads

- Infinion™ 16 xxcm 16 Contact Lead
- Infinion CX xxcm 16 Contact Lead
- Linear™ xxcm 8 Contact Lead
- Linear ST xxcm 8 Contact Lead
- Linear 3-4 xxcm 8 Contact Lead
- · Linear 3-6 xxcm 8 Contact Lead
- Artisan™ 2x8 Surgical Lead
- Artisan MRI xx cm 2x8 Surgical Lead
- Avista™ MRI xxcm 8 Contact Lead
- 8 Contact Extensions
- Precision™ M8 Adapter
- · Precision S8 Adapter
- 2x4 Splitters
- 2x8 Splitters

Note: xx denotes length (cm). The Precision Montage MRI System supports any combination of 8 contact percutaneous, 16 contact percutaneous and 16 contact surgical leads totaling up to 16 active contacts.

SCS Systems with ImageReady™ MRI Technology

When an appropriate Boston Scientific SCS System with ImageReady MRI Technology is implanted as directed (see "SCS Implant Conditions For Full-body MRI Eligibility" in this manual), a patient's full body may be eligible for MRI scans under specific conditions. For detailed information about eligibility and conditions for MRI scanning, refer to the ImageReady MRI Full Body Guidelines for the Precision Montage MRI System.

Compatible Leads for Full Body MRI Eligibility

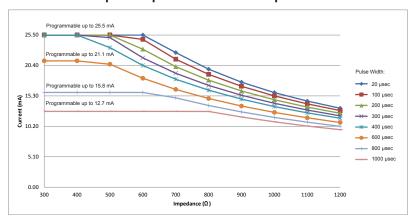
- Avista™ MRI xxcm 8 Contact Lead
- Infinion CX xxcm 16 Contact Lead
- Linear™ xxcm 8 Contact Lead
- Linear ST xxcm 8 Contact Lead
- Linear 3-4 xxcm 8 Contact Lead
- Linear 3-6 xxcm 8 Contact Lead
- Artisan™ xx cm 2x8 Surgical Lead
- Artisan™ MRI xx cm 2x8 Surgical Lead

Package Contents

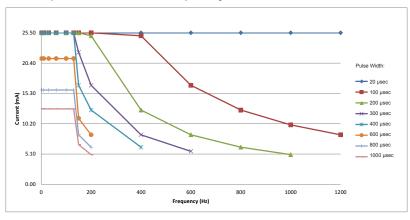
IPG Kit

- (1) Implantable Pulse Generator
- (1) Hex Wrench
- (1) IPG Pocket Template
- (2) Port Plugs
- (1) Device Registration Form and Temporary Patient Identification Card

Max Current Amplitude per Electrode Vs Impedance



Max Amplitude Based on Frequency and Pulse Width



Specifications and Technical Data

Parameter Range		Default
Areas (Channels)	4	_
Amplitude	0 – 25.5 mA	0 mA
Rate	2 – 1200 pps ^a	40 pps
Width	20 – 1000 µsec ^b	210 µsec
Cycle	1 sec – 90 min, OFF	OFF
Ramp ON	1 – 10 secs	3 secs
Contacts	1 – 16, case: +100% to -100%, OFF	1 – 16, case: OFF

- a. Only one Area is available if the rate is >130 pps.
- b. Amplitude × Width \leq 12.7 μ C

Materials

Case	Titanium
Header	Ероху
Strain Relief	Silicone
Size/Volume	51.3 mm x 46.0 mm x 10.8 mm / 19.8 cm ³ (including header)

Radiopaque Identification Tag

The IPG contains a radiopaque identification tag



The identification tag is visible using standard x-ray procedures.

Registration Information

In accordance with international practice and regulatory legislation in some countries, a registration form is packed with each Boston Scientific neurostimulator. The purpose of this form is to maintain traceability of all products and to secure warranty rights. It also allows the institution involved in the evaluation or replacement of a specific device to gain quick access to pertinent data from the manufacturer.

[! USA] Fill out the registration form included in the package contents. Return one copy to Boston Scientific, keep one copy for patient records, provide one copy to the patient, and one copy to the physician.

Boston Scientific Neuromodulation 25155 Rye Canyon Loop Valencia, California 91355, USA Attention: Customer Service Department

Instructions for Use

SCS Implant Conditions for Full Body MRI Eligibility

CAUTION: To allow a patient full-body MRI scan eligibility under specific conditions, implant a Boston Scientific SCS System with ImageReady MRI Technology described below. If the implant criteria are not met, the patient will not have an SCS system with full-body MRI scan eligibility. MRI scans performed under different conditions can result in patient injury or damage to the implantable device.

 Use only ImageReady MRI SCS system components (e.g., leads and IPGs) as specified in the ImageReady™ MRI Full Body Guidelines for Precision™ Montage™ MRI SCS System.

Note: Lead extensions, adapters, and splitters are not full-body MRI scan eligible.

- Implant the IPG in the upper buttocks or lower flank.
- · Implant the lead in the epidural space.
- If using the Avista MRI lead(s), use only the suture sleeves provided with the Avista™ MRI lead kit
 or the Clik™ X MRI anchor to secure the Avista MRI leads.
- Explant any previously abandoned leads, extensions, splitters or adapters that may be in the
 patient (i.e. leads, extensions, splitters, or adapters, or portions of, that are not connected directly
 to an IPG).

Note: Other implanted medical devices may limit or restrict MRI scans.

- It is recommended that you enter all component model number and implant location information
 using the ImageReady MRI Full Body Patient Eligibility Checklist and maintain it in the patient's
 medical records. When adding, changing, or removing IPGs, leads or accessories, it is
 recommended that you complete a new ImageReady MRI Full Body Patient Eligibility Checklist
 and maintain it in the patient medical record.
- For the full body MRI conditions and MRI-specific warnings and precautions for conducting an MRI scan, refer to the ImageReady MRI Full Body Guidelines for Precision Montage MRI SCS System.

IPG Handling and Storage

- Handle the IPG and all components with care.
- · Keep sharp instruments away from the components.
- Do not use the IPG if it has been dropped.
- Do not incinerate an IPG. Improper disposal of the device could result in an explosion. Devices should be explanted in the case of cremation, and returned to Boston Scientific Neuromodulation. An explant kit is available.
- Store the IPG between 0 °C and 45 °C (32°F and 113 °F). Devices should always be kept in temperature regulated areas within the acceptable temperature range. IPG damage can occur at temperatures outside of this range.

Pre-Op Instructions

- Ensure that the IPG is fully charged prior to the permanent implant procedure. The approximate location of the IPG is marked on the IPG kit. Turn on the Charger and place it over the IPG to begin charging. Refer to "Charging Steps" on page 11 for additional instructions.
- 2. Check that the sterile package is intact. (See "Sterilization" in the *Information for Prescribers* manual for the Precision Montage MRI SCS System.)

3. If intra-operative stimulation testing is desired, ensure that a Trial Stimulator is available for use. Refer to the *Clinician Trial Manual* for your SCS System for additional instructions.

IPG Implantation

- Ensure that the area surrounding the lead entry site is incised to a dimension that will accommodate
 the tunneling tool.
- 2. Check that the lead is securely anchored.

CAUTION: Do not use polypropylene sutures as they may damage the suture sleeve. Do not suture directly onto the lead, or use a hemostat on the lead body. This may damage the lead insulation. In addition, during an MRI scan, the patient could be at risk of tissue heating, resulting in tissue damage or serious patient injury.

- Select and mark the intended IPG site, using the IPG template, and create an incision for the IPG pocket.
- Create a subcutaneous pocket no larger than the IPG outline at a depth of up to 2.0 cm from the surface. Implant charging could become ineffective at depths shallower than 0.5 cm or greater than 2.0 cm.

Note: For full-body MRI scan eligibility, confirm that the subcutaneous pocket for the IPG has been created in the upper buttock or lower flank. (See the caution in "SCS Implant Conditions for Full Body MRI Eligibility" in this manual).

5. Tunnel the lead(s) to the IPG site.

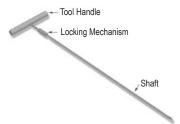
Note: Using the IPG template will help guide the correct pocket sizing. It is important to keep the pocket small to reduce the chances of patient manipulation and IPG flipping. Select an IPG site several inches away from the previously externalized trial lead site to reduce risk of infection.



Tunneling the Lead or Lead Extension

Note: if using an Infinion™ CX Lead(s), it is recommneded to use the Long Tunneling Tool (35cm).

 If not already assembled, attach the tunneling tool handle to the shaft by turning the locking mechanism clockwise.



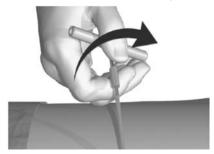
Mark the desired route of the tunnel.



- 3. Administer the appropriate local anesthetic along the tunneling path.
- 4. OPTIONAL. If necessary, bend the tool shaft to conform to the patient's body.
- 5. Make a small incision at the desired exit site.
- 6. Create a subcutaneous tunnel between the lead(s) incision and the IPG pocket site until the straw is visible and accessible at the exit point.



7. Unscrew and remove the tunneling tool handle.



8. Grasp the tip of the tool with one hand while holding the straw in place with the other hand. Pull the tunneling tool shaft out through the straw.



9. Push the lead or extension through the straw, then withdraw the straw.

- 10. Pull the proximal end(s) out of the exit point.
- 11. Wipe the proximal end(s) clean.

CAUTION: Do not tunnel splitter.

Note: The following Codman Disposable Catheter Passers may be used in place of the Boston Scientific tunneling tool for the 2x8 Surgical Lead, Linear™ 8 Contact Leads and Infinion 16 Lead only:

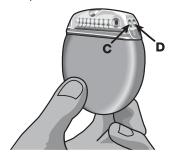
REF 82-1515 (36 cm); REF 82-1516 (55 cm); REF 82-1517 (65 cm)

Note: When using a Codman Disposable Catheter Passer, tunnel from the midline incision to the IPG pocket using the standard technique.

Connecting the Lead, Extension, Splitter, or Connector to the IPG

Note: Lead extensions, adapters, and splitters are not full-body MRI scan eligible.

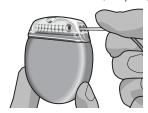
IPG ports are labeled as follows:



Connecting to the IPG:

- Leads connect to IPG ports C or D.
- For the Infinion 16, connect the splitter tail with laser-etched bands (contacts 1-8 of the Infinion 16 lead) to the left port C and the unmarked splitter tail (contacts 9-16 of the Infinion 16 lead) to the right port D.
- For the Infinion CX Lead, connect the tail with the single marker band (contacts 1-8 of the Infinion CX Lead) to the port C and the tail with two marker bands (contacts 9-16 of the Infinion CX Lead) to the right port D.
- For the Artisan and Artisan MRI 2x8 surgical lead, connect the left side to the left port C. Connect the right side (the laser-etched tail), contacts 9-16, to the right port D.
- Fully insert the lead(s), extension(s), splitter(s), and/or connector(s) into the IPG port(s), being careful
 not to stress or bend the proximal end of the lead. When the lead is properly inserted, the lead will stop
 and the retention ring will be located under the set screw.

Note: Lead extensions, adapters, and splitters are not full-body MRI scan eligible



2. Fully insert a port plug into unused IPG ports.

Note: If you experience difficulty when inserting the lead, lead extension, splitter, connector, or port plug, use the hex wrench to loosen (counterclockwise) the set screw and/or gently rotate the lead to help advance the proximal end.

Note: To confirm good connections, go to the Systems Settings menu in the FreeLink Remote Control and perform a Lead Check. Ensure that all boxes in the Lead Check screen are checked GREEN before tightening the set screws. If one or more RED X appears the patient may not be eligible for a full body MRI scan. The IPG must be in contact with the subcutaneous pocket in order to receive accurate impedance measurements.

3. Pass the hex wrench through the hole in the septum located on the front or back of the IPG header and tighten each set screw until the hex wrench "clicks," indicating lock.



CAUTION: Ensure that the lead is fully inserted before tightening the set screw to prevent lead damage

Note: If a port plug is used, it is still necessary to tighten the set screw on the port plug as described above.

Note: The hex wrench is torque-limited and cannot be over-tightened.

- 4. Place the IPG in the subcutaneous pocket with logo marking facing up towards the skin.
- 5. Coil excess lead, extension, splitter, or connector under the IPG.
- 6. If desired, secure the IPG in the pocket by suturing through the holes in the IPG header.

CAUTION: Do not suture through leads or splitter.

CAUTION: Tightening sutures directly on the lead can damage the lead. In addition, during an MRI scan, the patient could be at risk of tissue heating, resulting in tissue damage or serious patient injury.

7. Close and dress the wound(s).

IPG Explant or Replacement

- 1. Turn off the IPG.
- Surgically open the IPG pocket and withdraw the device. Please try to preserve the integrity of all components so that complete device assessment can be performed.
- 3. Loosen the connector set screws to release and remove the leads, extensions, or splitters.
- For replacement, connect the new IPG following the instructions for "Connecting the Lead, Extension, Splitter, or Connector to the IPG" on page 9. Or, to terminate therapy, surgically remove the implanted lead system.
- Notify Boston Scientific to document the reason for explant or replacement and to arrange for return of IPG and components.

Rechargeable Stimulator System

The Precision™ Montage™ MRI Stimulator is rechargeable. Boston Scientific recommends any recharge routine that fits the patient's schedule and lifestyle while maintaining sufficient charge to maintain stimulation.

Developing a patient's recharge routine involves finding the right balance among the following:

- How much power is required for the patient to experience effective therapy.
- How often the patient wants to recharge.
- · How long the patient wants to recharge.
- How the patient would like to manage their personal schedule.

The Clinician Programmer will estimate charging time based on 24 hours per day of stimulation at the programmed settings. To charge fully, wait until the Charger emits an end of charge beep signal or the Remote Control display indicates that the battery is charged. Refer to the Patient's Charger Handbook and the Physician's Remote Control Directions for Use for additional information. The recharging process is simple, but important.

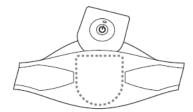
Charging Steps

WARNINGS:

- Patient should not charge while sleeping. This may result in a burn.
- While charging, the Charger may become warm. It should be handled with care.
- Failure to use the Charger with either the Charger Belt or an adhesive patch, as shown, may result
 in a burn. If pain or discomfort is felt, cease charging and contact Boston Scientific.

The Charger Base Station should be plugged in and the Charger placed in the Base Station when not in use. When the indicator light is green, the Charger is fully charged. When the indicator is amber, the Charger is partially charged, but is still able to deliver a charge to the Stimulator.

- When the indicator light is green, remove the Charger from the Base Station. The indicator light will then turn off.
- Press the power button. The indicator light will come on again, and the Charger will begin beeping as it searches for the Stimulator.
- Place the Charger over the Stimulator. When the Charger is aligned with the Stimulator, the beeping will stop.
 - Centering the Charger over the Stimulator will ensure the shortest charging time.
 - Many patients are able to feel the implanted Stimulator and can place the Charger directly on top of it.
 - Alternatively, centering the Charger within the alignment area (i.e., the area where the Charger does not beep) will also ensure that the Charger is aligned.
- 4. Secure the Charger over the Stimulator by using either an adhesive patch or the Charger Belt.
 - Adhesive Patch: Remove the clear liner from the patch. Apply the white side with the blue stripe to the back of the Charger. Then remove the beige liner from the patch. Secure the Charger over the Stimulator by pressing the adhesive to the skin over the Stimulator.
 - <u>Charger Belt:</u> Place the Charger into the pocket on the Charger Belt so that the Power button is visible through the mesh fabric. Secure the Charger over the Stimulator by adjusting the Charger Belt.



Note: If you accidentally locate the patch in the wrong place, or if the Charger Belt moves out of alignment, the Charger will start beeping again. Use a new adhesive patch or readjust the belt to place the Charger back into position.

- 5. When the Charger emits a series of double beeps, the Stimulator is fully charged. Turn off the Charger, remove the Charger Belt or adhesive patch, and return the Charger to the Base Station. Do not confuse the end of charge signal (a series of double beeps) with the continuous beeps that indicate that the Charger is searching for the Stimulator.
- Note: The end of a charge signal is a distinct double beep, and the alignment indicator is a steady continuous signal.
 - The Remote Control will not be able to communicate with the IPG when charging.

Refer to "IPG Battery Life" in your *Information for Prescribers* manual for information on Stimulator battery life.

IPG Battery Status

The patient Remote Control displays the Stimulator battery status when communicating with the Stimulator. Refer to the Clinician's Remote Control Directions for Use for additional information. When the Remote Control indicates a low battery the Stimulator should be recharged as soon as possible.

Failure to recharge may lead to loss of stimulation in less than 24 hours. After stimulation stops, communication with the Stimulator will also cease. Until a sufficient level of charge has been attained, the Stimulator may not communicate with the Remote Control.

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Legal Manufacturer

Boston Scientific Neuromodulation 25155 Rye Canyon Loop Valencia, CA 91355 USA (866) 789-5899 in US and Canada (661) 949-4000, (661) 949-4022 Fax (866) 789-6364 TTY www.bostonscientific.com Email: neuro.info@bsci.com Australian Sponsor
Address

Boston Scientific (Australia) Pty Ltd PO Box 332 BOTANY NSW 1455 Australia

Free Phone 1800 676 133 Free Fax 1800 836 666 EC REP EU Authorised Representative

Boston Scientific Limited Ballybrit Business Park Galway, Ireland T: +33 (0) 1 39 30 97 00 F: +33 (0) 1 39 30 97 99

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