

# PROPONENT™ MRI Pacing System

## ImageReady™ MR Conditional Pacing System

### Models L209, L210, L211

- Provides an ImageReady™ MR Conditional pacing system\* at 3T and 1.5T, full body, with no time limitations, with automatic MRI timeout feature to optimize workflow in the MR environment\*\*
- Atrial Arrhythmia Report provides a comprehensive and proactive approach for comorbidity management
- RF telemetry for wireless transmission of information and efficiency in the operating room and follow-up setting
- Automatic Daily Monitoring with the LATITUDE™ NXT Patient Management System
- Automaticity with PaceSafe™ RV and RA, providing dynamic adjustment of pacing outputs to ensure capture and Automatic Gain Control to dynamically adjust the sensitivity in both the atrium and the ventricle, to maximize efficiency and ease of use
- RightRate™ MV sensor is the only sensor clinically proven to restore chronotropic competence<sup>1</sup>
- RYTHMIQ™, designed to minimize unnecessary RV pacing without clinically significant pauses, therefore reducing the risk of HF development
- Enhanced features and diagnostics including Respiratory Rate Trend, designed to provide you with greater insight into your patient's disease progression based on the patient's own respiration
- POST function to facilitate patient follow up with a fully automatic device and lead check
- EASYVIEW™ header with port identifiers designed to make the implant experience more efficient



\*When conditions of use are met, please refer to MRI Technical Guide.

\*\*L209 is not ImageReady™ MR Conditional pacing system.

### Mechanical Specifications

Model	Type	Size (cm) (W x H x D)	Mass (g)	Volume (cc)	Connector Type (RA RV LV)
L209 (non-MRI model)	VDDR	4.45 x 5.02 x 0.75	24.8	12.2	RA: IS1 – RV: IS1
L210	SR	4.45 x 4.81 x 0.75	23.6	11.7	RA/RV: IS1
L211	DR	4.45 x 5.02 x 0.75	24.8	12.2	RA: IS1 – RV: IS1

### Longevity

Projected Longevity	Pacing Amplitude	Pacing	MV Sensor	500Ω	750Ω	1000Ω
<b>SR</b>						
Typical programmed setting	2.5	100%	On	9.2	9.7	10.0
Maximum labeled longevity***	2.0	50%	Off	11.1	11.3	11.5
<b>DR</b>						
Typical programmed setting	2.5	100%	On	7.6	8.2	8.7
Maximum labeled longevity***	2.0	50%	Off	10.0	10.3	10.5
<b>VDDR</b>						
Typical programmed setting	2.5	100%	On	9.0	9.4	9.7
Maximum labeled longevity***	2.0	50%	Off	10.7	11.0	11.1

### Additional Longevity Information

- Settings: LRL 60bpm, ventricular and atrial settings of 0.4 ms pacing pulse width; sensors On; EGM Onset On. These calculations also assume that the pulse generator spends 6 months in Storage mode during shipping and storage, the ZIP™ telemetry use for 1 hour at implant time and for 40 minutes annually for in-clinic follow-up checks.
- Power Supply SR,DR and VDDR models: lithium-carbon monofluoride cell; Boston Scientific; 402290.

\*\*\* No MV Sensor.

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### Pacing Therapy

<b>Brady Modes</b>	Normal:DDD(R)-DDI(R)-VDD(R)-VVI(R)-AAI(R)-DOO-VOO- AOO-Off Temporary: DDD-DDI-VDD-VVI-AAI-DOO-VOO-AOO-Off
<b>AT/AF Management</b>	ATR Mode Switch, Ventricular Rate Regulation (VRR), Atrial Flutter Response (AFR), Atrial Pacing Preference (APP), ProACT, Rate Smoothing
<b>Automaticity</b>	Automatic Gain Control (AGC) for sensitivity Right Atrial Automatic Threshold (RAAT) Right Ventricular Automatic Capture (RVAC)
<b>Rate Adaptive Pacing</b>	Accelerometer, RightRate™ (Minute Ventilation) or blended sensors with sensor trending function
<b>RV Pacing Reduction</b>	AV Search +, RYTHMIQ™, AV Delay to 400 ms, Rate Hysteresis
<b>Rate Management</b>	Sudden Brady Response (SBR), PMT Termination, PVARP after PVC, Dynamic PVARP
<b>Pace/Sense Configuration</b>	Unipolar, Bipolar, Bipolar/Unipolar, Unipolar/Bipolar, Unipolar/Off, Bipolar/Off, Lead Safety Switch, Automatic Lead Recognition

### Patient Diagnostics

<b>Arrhythmia Logbook</b>	Event Summary, Stored Electrograms with Annotation Markers (Intervals and approximately 14 minutes all multi channel EGM, always with 10 seconds Onset and event storage prioritization). Implant activation of all available EGMs. On screen measurements of all stored signal, amplitudes and timing. Snapshot Function (up to 12 seconds trace of ECG/EGM display stored)
<b>Histograms &amp; Counters</b>	Ventricular Tachy Counter, Brady Counter, Histograms, Intrinsic Promotion (Rate Hysteresis % successful and AVSH+ % successful)
<b>HF Therapy / Diagnostics</b>	Respiratory Rate Trend, AT/AF Burden, Activity Level, A & V Arrhythmias, Weight and Blood Pressure*
<b>Atrial Arrhythmia Report</b>	AT/AF% and Total Time in AT/AF, AT/AF Burden Trend, RV Rate during AT/AF Trend, Pacing Percent Trend, Heart Rate Trend, Activity Level and Respiratory Rate Trends, RV Rate during AT/AF Histogram. Timeline history of interrogations, programming, and counter resets for one year. Longest AT/AF, Fastest RVS rate in AT/AF, and most recent episode.
<b>DAILY TREND for last 365 Days</b>	Events, Activity Level, AT/AF Burden, Pacing Percent, Respiratory Rate Trend, Heart Rate, Lead Impedance and Amplitude, RAAT Trend, RVAC Trend

\*Weight and Blood Pressure are only available via Latitude.

### ImageReady™\*\*

<b>MRI Lead Selection</b>	Pulse Generator MR-conditional with all FINELINE™II Sterox, FINELINE™II Sterox EZ and INGEVITY™ Pacing Lead Models
<b>MRI Conditions</b>	Full body scan at 3T and 1.5T (≤SAR 2W/Kg) for all FINELINE™II models*** Full body scan at 3T and 1.5T (≤SAR 4W/Kg) for all INGEVITY™ MRI models***
<b>MRI Mode</b>	Pacing Mode: AOO,VOO,DOO,Off Protection Time Out: Off, 12,24,48 hours

\*\* ImageReady™ is not available for VDDR model.

\*\*\*Please refer to the Pacing System MRI Technical Guide as the system is designated as MR Conditional in accordance with specified conditions.

### Implant/In Clinic Follow Up

<b>Implant Communication Mode</b>	Programmable values: Enable use of ZIP™ telemetry (MICS) (Requires initial use of wand for device ID) or use wand for all telemetry Nominal: Enable use of ZIP™ telemetry (Requires initial use of wand for device ID)
<b>In Clinic Follow Up</b>	Snapshot Function up to 12 seconds trace of ECG/EGM display stored POST (Post-Operative System Test): provides an automatic device/lead check at a pre-determined time post-implant to help document proper system functionality without requiring manual system testing
<b>Indications-Based Programming (IBP)</b>	Tool that provides specific programming recommendations based on the patient's clinical needs and primary indications

### Remote Follow Up

<b>Remote Monitoring</b>	This device is designed to be LATITUDE™ NXT enabled; LATITUDE NXT availability varies by region
<b>Thresholds</b>	Automatic storage of last successful daily PaceSafe threshold test for all active chambers
<b>Wireless</b>	Remote follow-up for all devices (MICS)
<b>Patient Triggered Monitor (PTM)</b>	Triggers the storage of two minutes onset and one minute post – EGMs, intervals, and annotated marker data during a symptomatic episode by placing a magnet over the device

### Safety Functions\*\*\*\*

<b>Safety Core</b>	Is intended to provide life-sustaining therapy if certain non-recoverable or repeat fault conditions occur. Safety Core operates independently and acts as a backup to these components
<b>Electrocautery Protection Mode</b>	Provides asynchronous pacing at the programmed outputs and LRL when commanded by the programmer

\*\*\*\*The Safety Functions do not have programmable parameters.

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1. Chronotropic competence is defined by the Model of the Cardiac Chronotropic Response to Exercise. Wilkoff B, Corey J, Blackburn G. A mathematical model of the cardiac chronotropic response to exercise. Journal of Electrophysiology. 1989;3:176-180.

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