

VALITUDE™ X4 CRT-P

Model U128

- Provides an ImageReady™ MR Conditional system* at 3T and 1.5T, full body, with no time limitations, with automatic MRI timeout feature to optimize workflow in the MR environment
- Extended Longevity device projected to last up to 13.8 years**
- The X4 CRT-P and ACUITY™ X4 lead portfolio features:
- electrodes on a 3D spiral designed to allow pacing from a basal location without sacrificing fixation or thresholds
- 17 pacing options to manage phrenic nerve stimulation and high thresholds
- multiple lead shapes with a 2.6F (0.86 mm) tapered lead tip to improve predictability of accessing target vessels
- Advanced AF and HF diagnostic reports provide 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
- Remote patient monitoring with the LATITUDE™ NXT Patient Management System
- Enhanced features and diagnostics, including AP Scan[™] and 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.



Mechanical Specifications

Model	Туре	Size (cm) (W x H x D)	Mass (g)	Volume (cc)	Connector Type (RA RV LV)
U128	X4 CRT-P	4.45 x 6.17 x 0.75	33.0	16.6	RA/RV: IS1 – LV:IS4

Longevity

Projected Longevity	RA/RV	LV	500 Ω	700 Ω	700Ω, no MV/RS
Typical programmed setting	2.5V	3.0V	10.3	11.2	11.7
Maximum labeled longevity	2.0V	2.0V	12.4	13.1	13.8

Additional Longevity Information

- Assumes 70 min-1 LRL, DDDR mode; 100% biventricular pacing; 15% atrium pacing and 0.4 ms pacing. Pulse Width (RA, RV, LV);
 RA Impedance 500 Ω; 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 3 hours at implant time and for 40 minutes annually for in-clinic follow-up checks.
- Power Supply: lithium-carbon monofluoride cell; Boston Scientific; 402294.

^{**}Assumes 70 min-1 LRL, DDDR mode; 100% biventricular pacing; 15% atrium pacing and 0.4 ms pacing, Pulse Width (RA, RV, LV); RA 500 Ω ; RV/LV 700 Ω ; sensors Off, EGM Onset On.

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Pac	ıng	ıne	rapy
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Brady Modes	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
AT/AF Management	ATR Mode Switch, Ventricular Rate Regulation (VRR), Atrial Flutter Response (AFR), Atrial Pacing Preference (APP), ProACt, Rate Smoothing
Automaticity	Automatic Gain Control (AGC) for sensitivity Right Atrial Automatic Threshold (RAAT) Right Ventricular Automatic Threshold (RVAT)
Rate Adaptive Pacing	Accelerometer
Rate Management	Sudden Brady Response (SBR), PMTTermination, PVARP after PVC, Dynamic PVARP
RA/RV Pace-Sense Configuration	Unipolar, Bipolar, Bipolar/Unipolar, Unipolar/Bipolar, Unipolar/Off, Bipolar/Off, Lead Safety Switch, Automatic Lead Recognition

Heart Failure Therapy

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Heart Failure Therapy Optimization	SmartDelay™ (AV Optimization), BiV Trigger, LV Offset, LV Sensing		
LV Lead Options	Quadripolar LV lead		
LV Pacing Vector Options	17 options		
LV Sensing Vector Options	8 options plus OFF		

Patient Diagnostics

Arrhythmia Logbook	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)
Histograms & Counters	Ventricular Tachy Counter, Brady/CRT Counter, Histograms, Intrinsic Promotion (Rate Hysteresis % successful)
HFTherapy / Diagnostics	Heart Rate Variability (HRV) with SDANN and ABM, Respiratory Rate Trend, AP Scan, AT/AF Burden, Activity Level, A & V Arrhythmias, Weight and Blood Pressure*
Atrial Arrythmia Report	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.
DAILY TREND for last 365 Days	Events, Activity Level, AT/AF Burden, Pacing Percent, Respiratory Rate, AP Scan, Heart Rate, SDANN, HRV Footprint, ABM, Lead Impedance and Amplitude, RAAT Trend, RVAT Trend

^{*}Weight and Blood Pressure are only available via LATITUDE NXT.

ImageReady™ MR-Conditional Pacing System

MRI Lead Selection	MR Conditional Pulse Generator U128 and U228 combined with:
	Pacing Lead: FINELINE™ II, INGEVITY™
	LV Lead: ACUITY™ X4
MRI Conditions	1.5T and 3T
	Full body
MRI Mode	Pacing Mode: AOO, VOO, DOO, Off
	Ventricular Pacing Chamber: BiV, RV-Only
	Protection Mode Time Out: Off, 3,6,9,12,24,48 hours

Implant/In Clinic Follow Up

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Implant Communication Mode	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)	
In Clinic Follow Up	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	
Indications-Based Programming (IBP)	Tool that provides specific programming recommendations based on the patient's clinical needs and primary indications	

Remote Follow Up

Remote Monitoring	This device is designed to be LATITUDE™ NXT enabled; LATITUDE™ NXT availability varies by region
Thresholds	Automatic storage of last successful daily PaceSafe threshold test for all active chambers
Wireless	Remote follow-up for all devices (MICS)
Patient Triggered Monitor (PTM)	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**

Safety Core	Is intended to provide life-sustaining therapy if certain nonrecoverable or repeat fault conditions occur. Safety Core operates independently and acts as a backup to these components
Electrocautery Protection Mode	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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