

EnSite Precision

CARDIAC MAPPING SYSTEM



EnSite Precision[™] Cardiac Mapping System

AUTOMATED. FLEXIBLE. PRECISE.

MAP THE MOST COMPLEX CASES^{1,2}

The EnSite Precision[™] cardiac mapping system answers your need for innovations to effectively diagnose a wide range of arrhythmias with next-generation technology that offers a high level of automation, flexibility and precision.1,2 The EnSite Precision[™] system is designed to:

- TRANSFORM PROCEDURES WITH INTUITIVE AUTOMATION^{1,2}
- EXPAND PROCEDURAL OPTIONS USING SUPERIOR FLEXIBILITY^{1,2*}
- EFFECTIVELY MANAGE PATIENTS THROUGH GREATER PRECISION^{3**}



*The open-platform feature of the EnSite Precision[™] cardiac mapping system allows for use of almost any catheter, thus offering superior flexibility as compared to the Carto system by Biosense Webster, which limits use to Biosense Webster catheters only.

 $\label{eq:Greater precision based on improvement in accuracy of impedance model with magnetic field scaling applied via robot testing vs. EnSite``Velocity`` software v4.0.2.$

THE WHOLE IS GREATER THAN THE SUM OF ITS PARTS

The EnSite Precision[™] Cardiac Mapping System is at the foundation of the Abbott Integrated Lab.[™]

Designed to improve patient outcomes and workflow efficiency,[†] the Abbott Integrated Lab features the most cohesive mapping, navigation, recording and imaging system of its kind — from the partner you can trust for all your EP lab design, setup and procedure needs.^{4,5}

Learn how your EP lab can benefit from the automated, flexible and precise performance of the EnSite Precision cardiac mapping system. Contact your Abbott sales representative today, or **visit SJMprofessional.com/IL**.

[†]Refers to the use of TactiCath[™] Quartz ablation catheter when using contact force recommendations. The EnSite[™] contact force module integrates the TactiCath Quartz ablation catheter.



EnSite Precision[™] cardiac mapping system; VantageView[™] HD monitoring system; ViewMate[™] ultrasound console; MediGuide[™] technology; WorkMate Claris[™] recording system.

TRANSFORM PROCEDURES WITH INTUITIVE AUTOMATION

Advanced mapping is complex. You need precise information quickly to make sound decisions. Decrease mapping time without compromise using intelligent automation tools.^{1,2*}

• **Enhance VT mapping** with the EnSite[™] AutoMap module, featuring automated, advanced morphology matching capability.^{1,2}

- Automatically reject catheter ectopy.

		Score	31		
anima anima		CL	234ms	CL	
Service of Lorent	and the second	LAT	194 _{ms}	3	
				-	
provide and and				Alle	
enter and and	and the second				
2000000	and the				
Sector Distant	-				
provide from	-				
	- m				
Susania-C					
Same 18					
And the second					
TO HE REAL	1000				





Mapping Time Comparison of Manual, EnSite[™] AutoMap Module and Turb LV and RV Maps Made with Ablation Catheters

- Map secondary arrhythmias up to 10x faster with the TurboMap feature.
- **Experience faster decision-making** with both positive and negative morphology matching score that may accentuate scar regions and aid in visualization of critical isthmus channels.^{1,2}
- **Create faster, more accurate maps** with greater consistency across cases.^{1,2}

Point Collection Rate (AutoMap vs. Manual) Across Multiple Chambers²



• **Increase procedural consistency** through automated guidance of lesion marking using the AutoMark feature.⁶



EXPAND PROCEDURAL OPTIONS USING SUPERIOR FLEXIBILITY

EP procedures are unpredictable. You need options to tailor patient therapy and streamline workflow. Customize your procedures to address the circumstances of each case.

- Experience versatility by mapping any chamber with any catheter.*
 - Choose the workflow you need to accommodate patient needs.
 - Use the only system to uniquely integrate magnetic and impedance data.
- **Elevate efficiency** through the ability to create faster high-density maps using any catheter.^{1,2,*}



 * In accordance with catheter indication for use.

Comparison is versus EnSite Precision[™] mapping module v.1.0





• **Increase procedural flexibility** by selecting programming parameters to guide lesion marking using a customizable dashboard.



EFFECTIVELY MANAGE PATIENTS THROUGH GREATER PRECISION

Patients are unique. You need precision you can rely on. Discover the next generation system that uniquely combines impedance and magnetics, with a suite of innovative tools to give you the information you want for the decisions you need to make.

- Enhance precise navigation and model creation with dual technology.³
- Discover impedance-field flexibility + magnetic-field precision.³
- Stability monitor alerts of unexpected changes in Sensor Enabled[™] catheter locations due to heart rate, rhythm or respiratory changes, as well as anatomy movement.
- EnSite[™] NavX[™] SE points gated to end respiration.





- Improve stability with redesigned smaller patches.⁷
- Improved adhesive hydrogel patches.7
- Improves ECG patch placement options.
- New singular patch kit with minimal size to accommodate patients of all sizes.
- Improved ablation catheter stability through the integration of the Ampere[™] RF Generator and the EnSite Precision[™] System.⁸
- **Improved stability in challenging cases** with the option to manually update respiration compensation in patients with irregular breathing patterns.⁸



- **Experience 27x** ⁺⁺ **higher point density** through the creation of 3-D models with CT-scan-like detail.^{6,9}
- Streamline workflow through automatic field scaling.
- Does not rely on CS catheter for positional reference.



• Maintain a seamless workflow, now with greater precision via an automated sheath filter.⁶

FURTHER DISCOVER EP LAB EFFICIENCIES

Experience optimized system controls

- Easily visualize scar tissue with integration of delayed-enhancement MRI imaging.^{8,10*}
- Review and analyze data for studies or peer-to-peer education faster via USB export.8





Import using EnSite Precision[™] Software v2.0

 $Image\ courtesy\ of\ Division\ Image\ Processing,\ Department\ of\ Radiology,\ Leiden\ University\ Medical\ Center.$

^{*}Supports import of maps in either the VTK (ASCII) or the VTP (XML) file format with the following limitations: one occurrence of the <Piece> tag is supported, total number of vertices < 1,000,000, total number of polygons < 2,000,000 and polygons must contain three points.

Leverage new and existing best-in-class technology



- **Improve model accuracy** by reducing the "tenting" effect when creating a model with the ablation catheter, and minimize variation in voltage amplitude during mapping with the EnSite[™] contact force module.⁶
- Achieve fast, real-time contact force measurements using the TactiCath[™] Quartz contact force ablation catheter.⁶

- Use EnSite[™] AutoMap Module with OneModel and OneMap in one system:
 - Achieve 54% faster, real-time model creation with the OneModel tool—offering precise anatomic modeling.^{11,12}
- Gain visibility into a patient's rhythm in the fewest possible cardiac cycles when using the EnSite AutoMap module with the OneMap tool—providing simultaneous collection of anatomic and electrical points from multiple electrodes.¹²



Time in Seconds

Voltage and LAT (number of mapping points)

References

- 1. Ptaszek, L., Moon, B., Sacher, F., Jais, P., Mahapatra, S., & Mansour, M. (2015). A novel tool for mapping multiple rhythms from a single mapping procedure. Poster abstract P849. Europace, 17(Suppl 3), iii115.
- Ptaszek, L., Moon, B., Mahapatra, S., & Mansour, M. (2015, Nov). Rapid high density automated electroanatomical mapping using multiple catheter types. Poster presentation P097. APHRS Scientific Sessions, November 21, 2015, Melbourne.
- 3. Abbott. Data on File. Report 90237452.
- 4. Neuzil, P., Reddy, V., Kautzner, J., Petru, J., Wichterle, D., Shah, D., ... Kuck, K. H. (2013). Electrical reconnection after pulmonary vein isolation is contingent on contact force during initial treatment: results from the EFFICAS I study. Circulation: Arrhythmia and Electrophysiology, 6, 327-333.
- 5. Kautzner, J., Neuzil, P., Lambert, H., Peichl, P., Petru, J., Cihak, R., . . . Kuck, K. H. (2015). EFFICAS II: optimization of catheter contact force improves outcome of pulmonary vein isolation for paroxysmal atrial fibrillation. Europace, 17(8), 1229-1235.
- 6. Abbott. Data on File. Report 90214738
- 7. Abbott. Data on File. Report 90213771.
- 8. Precision 2.0 Instructions For Use.
- 9. Heist, E., Perna, F., Chalhoub, F., Danik, S., Barrett, C., Houghtaling, C.,...Mansour, M. (2013) Comparison of Electroanatomical Mapping Systems: Accuracy in Left Atrial Mapping. PACE, 36, 626-631.
- 10. Abbott. Data on File. Report 90202460.
- 11. Heist, E.K., Danik, S., Chalhoub, F., Koci, F., Barrett, C., Perna, F.,...Mansour, M. (2011). Human and animal feasibility study of investigational 3D geometry acquisition software. Heart Rhythm, 8(S241).
- 12. Abbott. Data on File. Report 90114565.

Abbott

One St. Jude Medical Dr., St. Paul, MN 55117 USA, Tel: 1 651 756 2000 SJM.com St. Jude Medical is now Abbott.

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use. [™] Indicates a trademark of the Abbott group of companies.

‡ Indicates a third party trademark, which is property of its respective owner.

© 2017 Abbott. All Rights Reserved.

22679-SJM-ENS-1115-0042(6) | Item approved for international use only.

