

T H E A R T O F M A P P I N G

CARTO PRIME™
Module



Advanced Mapping Re-framed

CARTO® 3 System Version 7 and the CARTO PRIME™ Mapping Module offers advancement in 3D mapping technology. From signals to diagnosis, across a wide range of procedures, we are re-framing the future of electrophysiology. Discover the Art of Mapping.

* Based on clinical evaluation where physicians, in 547 procedures, expressed high satisfaction with the FAM improvements compared with previous CARTO® 3 versions.

Let's Start with the Basics

The CARTO® 3 System Version 7 experience begins with electrophysiology foundations - improved unipolar signal quality and Advanced Reference Annotation (ARA), intuitive rhythm change detection, LAT histogram and much more ...

Enhanced User Experience and Depth of Information

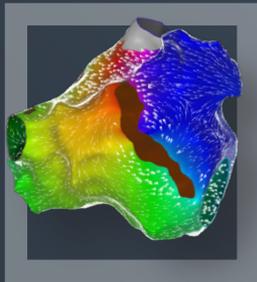
Better and faster* geometry with enhanced Fast Anatomical Mapping (FAM) more points, more maps.

A Complete Line of Arrhythmia Mapping Solutions

Fully integrated EP mapping system further increasing your CARTO® 3 System versatility.

Advanced and Complete The Essential Mapping Capabilities

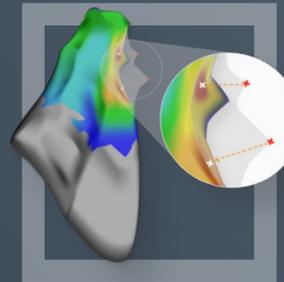
Powerful Atrial Arrhythmia Solutions



Coherent Mapping

May simplify the diagnosis of scar-related complex atrial arrhythmia by applying physiological constraints on LAT information.¹

The VT Essentials

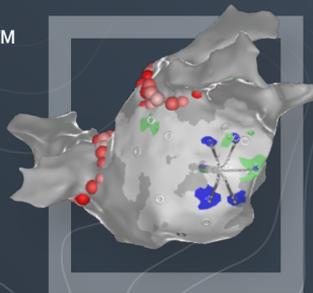


LAT Hybrid

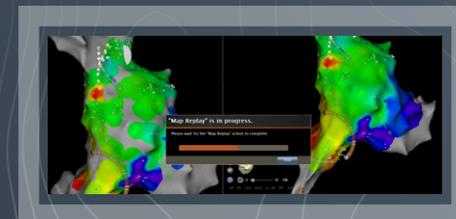
Increased Premature Ventricular Contraction (PVC) mapping location accuracy by adapting PVC activation to its corresponding Normal Sinus Rhythm location.²

CARTOFINDER™ MODULE

Expands the CARTO® 3 System mapping capabilities to irregular atrial arrhythmia, identifying repetitive focal and rotational activations patterns.³



Parallel Mapping & Map Replay



Enhances mapping efficiencies by enabling prospective creation of multiple VT maps simultaneously (Parallel Mapping) or retrospectively (Map Replay) from the same diagnostic catheter locations.

Coherent Mapping

Complex Atrial Tachycardia

Coherent Mapping may simplify the diagnosis of scar-related complex atrial arrhythmia by applying physiological constraints on LAT information.¹

- May simplify Identification of Conduction Mechanism¹
- Identify Patterns of Propagation with Conduction Velocity Vectors¹
- Increased* Reproducibility¹

* 95% agreement between blinded reviewers on the tachycardia mechanism vs. 80% with standard LAT mapping, (n=60).

Successfully Identified
the mechanism of
Scar-related Atrial Tachycardias

98.3%

of the Cases

In prospective multi-center study (n=20),
Coherent Mapping cases.¹

Conduction Identification

Identifies the most probable conduction mechanism throughout the entire chamber.

Conduction Velocity Vectors

Assist in identifying slower conduction compared to rest of the chamber.

Conduction Barrier Zones

SNO (slow or no) conduction zones. Clearly displays areas which are physiological barriers.

CARTOFINDER™ MODULE Irregular Atrial Arrhythmia

Expands the CARTO® 3 System mapping capabilities to irregular atrial arrhythmia, identifying repetitive focal and rotational activation patterns.³

- Fully Integrated Solution
- Fully Automated Regions of Interest Detection
- Standard Reproducible Mapping Workflow

Repetitive Rotational Activation Pattern

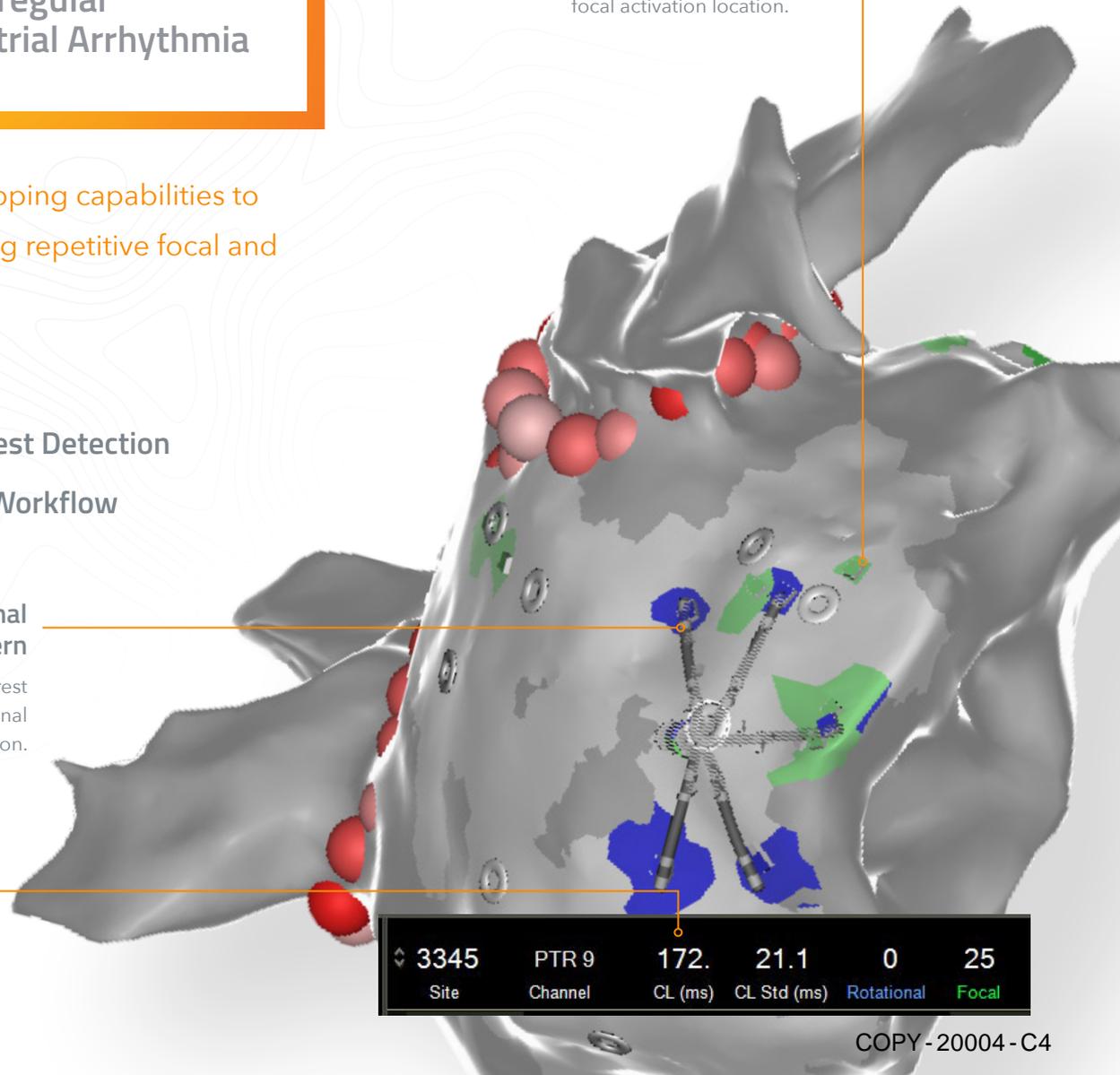
Region of interest
indicating rotational
activation location.

AF Cycle Length

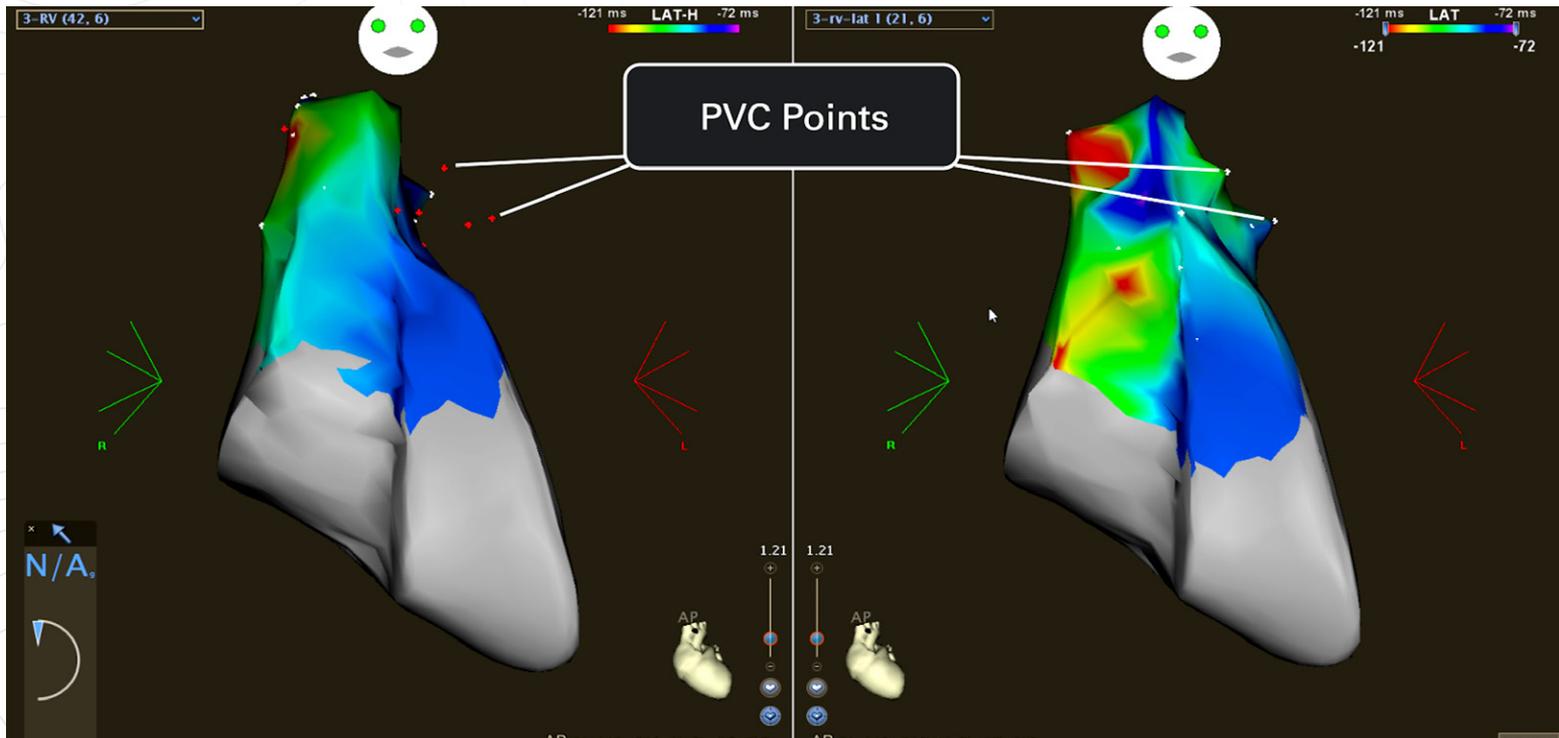
Cycle Length Information
associated with each
location.

Repetitive Focal Activation Pattern

Region of interest indicating
focal activation location.



3345	PTR 9	172.	21.1	0	25
Site	Channel	CL (ms)	CL Std (ms)	Rotational	Focal



LAT Hybrid

VT Solution

LAT Hybrid provides increased location accuracy compared with standard PVC mapping by associating the PVC map LAT information to its corresponding Normal Sinus Rhythm location.²

- Increased Accuracy
- Fully Integrated PVC Adjustment Algorithm
- Reproducibility by Seamless Automated Workflow

Parallel Mapping

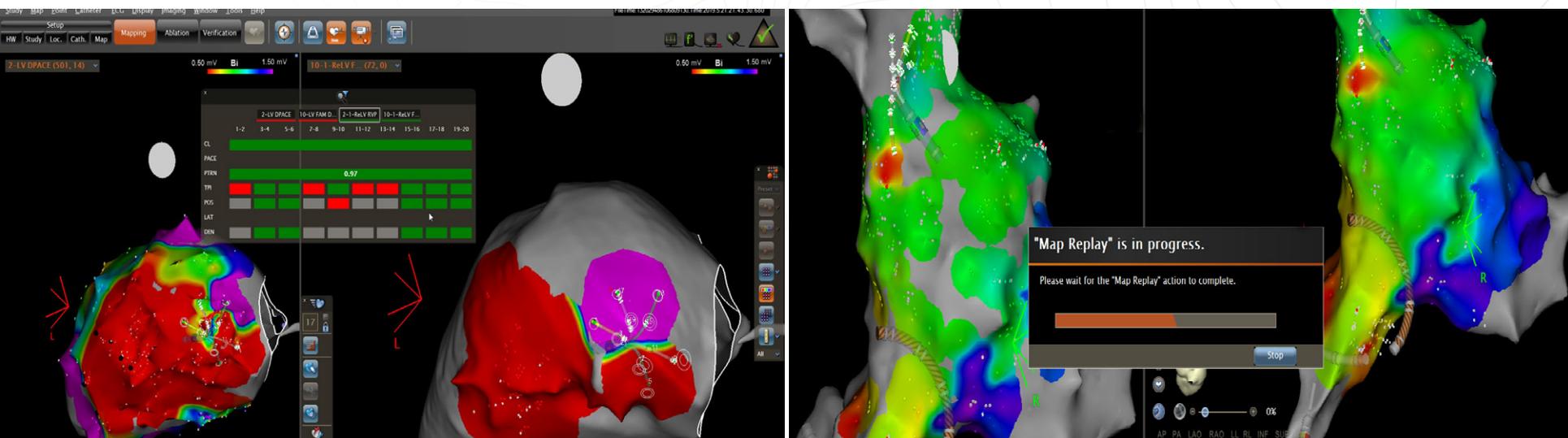
Multiple Ventricular Tachycardia

Parallel Mapping allows for simultaneous mapping of different arrhythmia using the same catheter locations.

Map Replay

Multiple Ventricular Tachycardia

Map Replay enables the creation of multiple maps retrospectively for the purpose of mapping different arrhythmia using the same catheter locations.

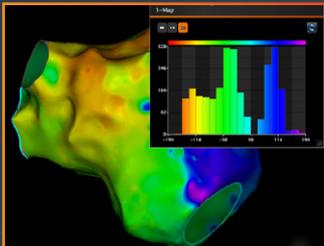


- Capture 2nd Arrhythmia Prospectively and Retrospectively
- Data is Always Accessible, never miss a beat
- Versatility Without Compromise

Advanced Reference Annotation

Consistent. Accurate. Robust.

Advanced Reference Annotation (ARA) is a novel multi-channel algorithm that provides consistent accurate and robust reference annotations for the detection of atrial and ventricular arrhythmias.*



LAT Histogram

Immediate detection of the full captured arrhythmia CL span.



Previous Beat Overlay

Immediate detection of arrhythmia change.

Improved User Experience

- FAM Improvements
- Increased Number of Points and Maps
- Accelerated Processing
- Better Signal Quality
- Automated LAT Consistency
- Access to Media Files During the Study
- And Much More ...

* 98% average stability rate consists of 94 test vectors with more than 69000 annotations, annotated by 8 experienced physicians. 96% average detection rate consists of 94 test vectors with more than 69000 annotations, annotated by 8 experienced physicians.

CARTO PRIME™ Module Advanced Mapping Re-framed

Ordering Number	Description
KT-5400-222	CARTO PRIME™ Module* kit including CARTO PRIME™ Workstation
KT-5400-221	CARTO® 3 System Version 7 base** kit
KT-5400-153	CARTO® 3 System CONFIDENSE® Mapping Module
KT-5400-137	CARTO® 3 System CARTOREPLAY® Mapping Module
KT-5400-180	CARTO® 3 System CONFIDENSE® and CARTOREPLAY® Bundle

* CARTO PRIME™ Module kit requires CONFIDENSE® Module and CARTOREPLAY® Module as prerequisite

** CARTO® 3 System Version 7 base requires CONFIDENSE® Module as prerequisite

CARTO® 3 System

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1. Anter E et al. Activation Mapping With Integration of Vector and Velocity Information Improves the Ability to Identify the Mechanism and Location of Complex Scar Related Atrial Tachycardias. *Circ Arrhythm Electrophysiol.* 2018;11:e006536. 2. Steyers III CM et al. Ablation using 3D maps adjusted for spatial displacement of premature ventricular complexes relative to sinus beats: Improving precision by correcting for the shift. *J Cardiovasc Electrophysiol.* 2019;1–7. 3. Bench testing performed by Biosense Webster, Inc. CARTO® 3 V7 CARTOFINDER Algorithm POD Report February 2019.

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Important information: Prior to use, refer to the Instructions for Use supplied with this device for indications, contraindications, side effects, warnings and precautions.

Caution: US law restricts this device to sale by or on the order of a physician.

THERMOCOOL® Navigation Catheters are indicated for the treatment of drug refractory recurrent symptomatic paroxysmal atrial fibrillation, when used with CARTO® 3 Systems (excluding NAVISTAR® RMT THERMOCOOL® Catheter).

THERMOCOOL® Navigation Catheters are indicated for the treatment of recurrent drug/device refractory sustained monomorphic ventricular tachycardia (VT) due to prior myocardial infarction (MI) in adults.



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