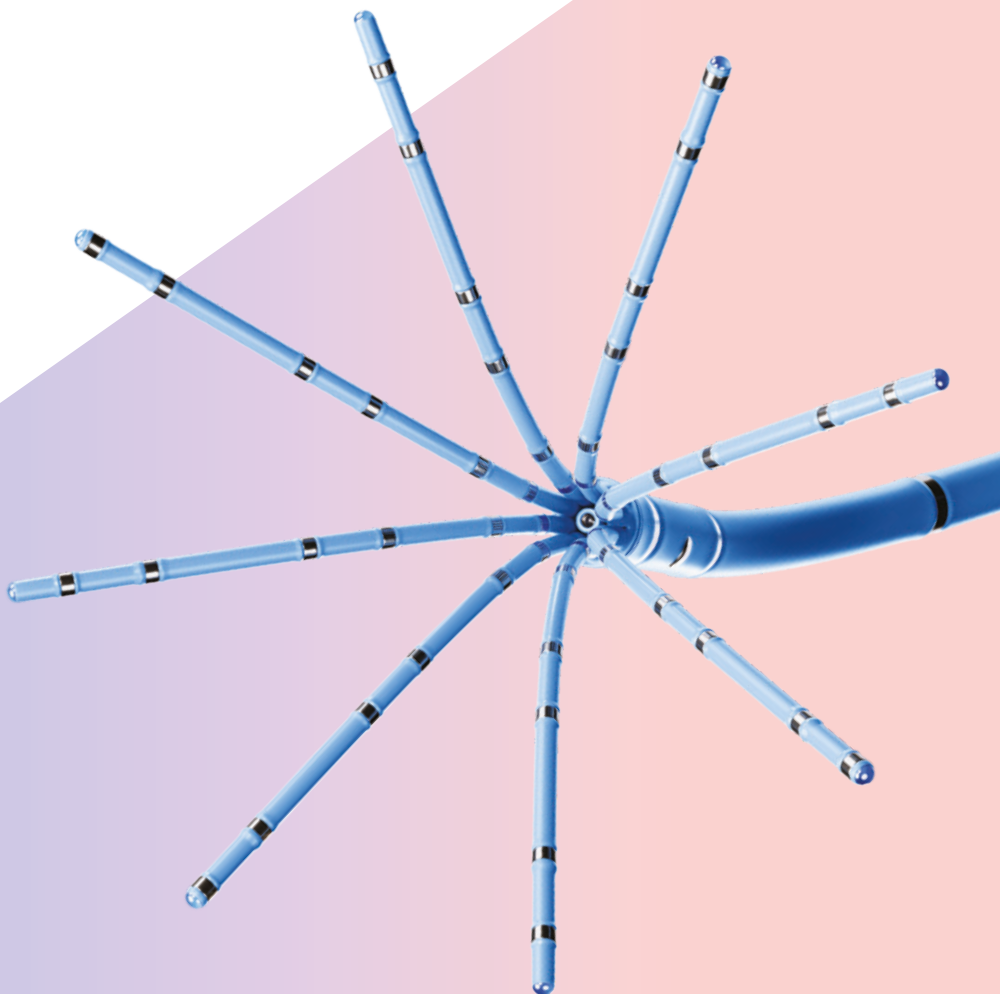


OCTARAY™ Mapping Catheter with TRUEref™ Technology



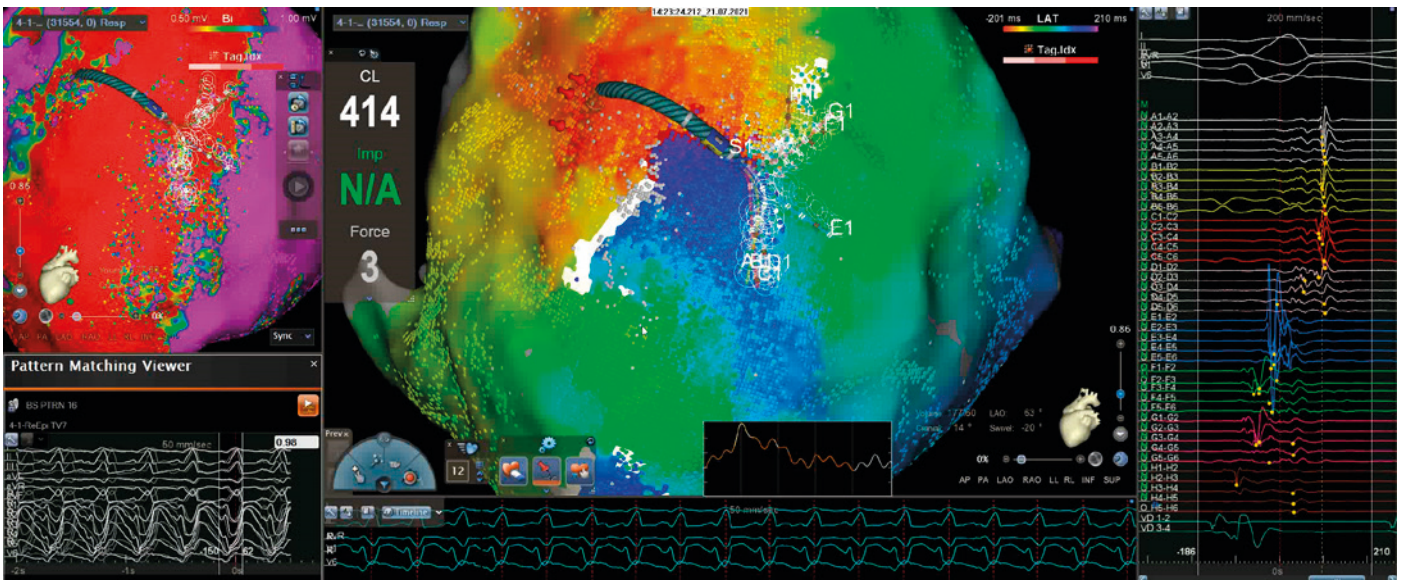
Discover
a new possible™



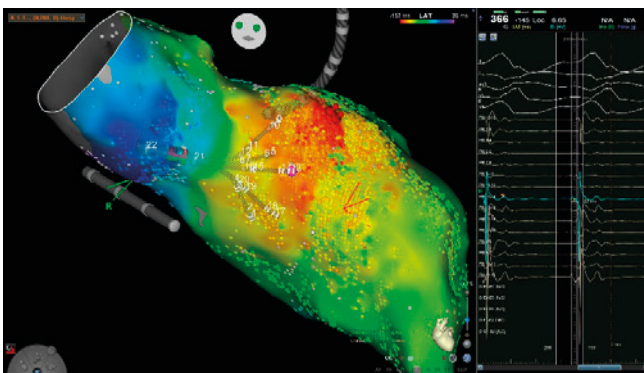
Map twice the point density in half the time^{3,§}

TRUE SPEED^{3,§}

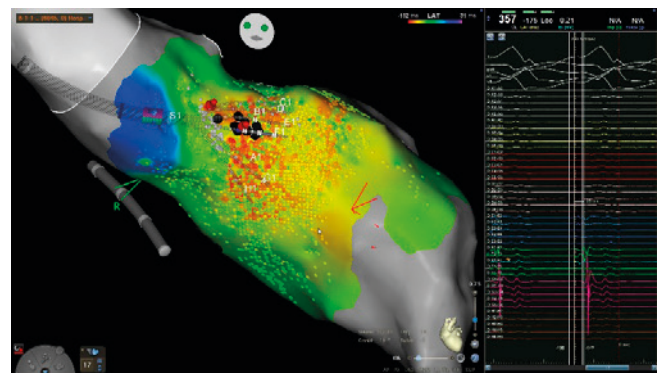
- Increased electrode count*
- Elongated spline option*
- Unique spline array*



**PENTARAY™
Mapping Catheter**



**OCTARAY™
Mapping Catheter**



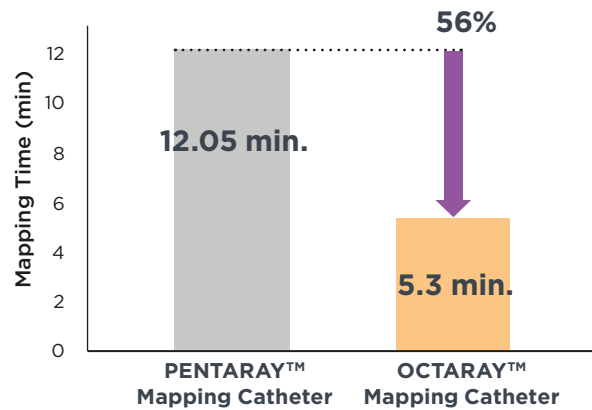
[§] Study was a comparison of OCTARAY™ Mapping Catheter 2-2-2 vs PENTARAY™ NAV ECO HIGH DENSITY Mapping Catheter 2-6-2.

* Compared to PENTARAY™ NAV ECO High Density Mapping Catheter.



SHORTER MAPPING TIME WITH OCTARAY™ MAPPING CATHETER COMPARED TO PENTARAY™ MAPPING CATHETER

In a pre-clinical study, **mapping time was 56% shorter with OCTARAY™ Mapping Catheter** than with PENTARAY™ Mapping Catheter.^{a,2}

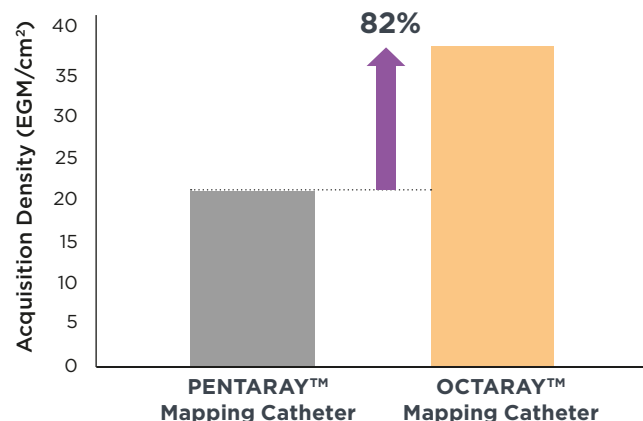


PENTARAY™ Mapping Catheter (12.05 min (standard deviation (SD) 2.2), P=9.015)² as compared to OCTARAY™ Mapping Catheter (mean 5.3 min (SD)¹



HIGHER-DENSITY MAPS WITH OCTARAY™ MAPPING CATHETER

In a pre-clinical study, **acquisition density was 82% higher with OCTARAY™ Mapping Catheter** than with PENTARAY™ Mapping Catheter.^{a,2} Higher-density maps may lead to improved identification of signals facilitating characterization of complex arrhythmias to to guide efficient ablation workflows.



^a Pre-clinical results with swine left ventricles: normal (n=4), with infarction (n=8).

TRUEref™ Technology as a new mapping reference integrated into the OCTARAY™ Mapping Catheter.

TRUE CLARITY³

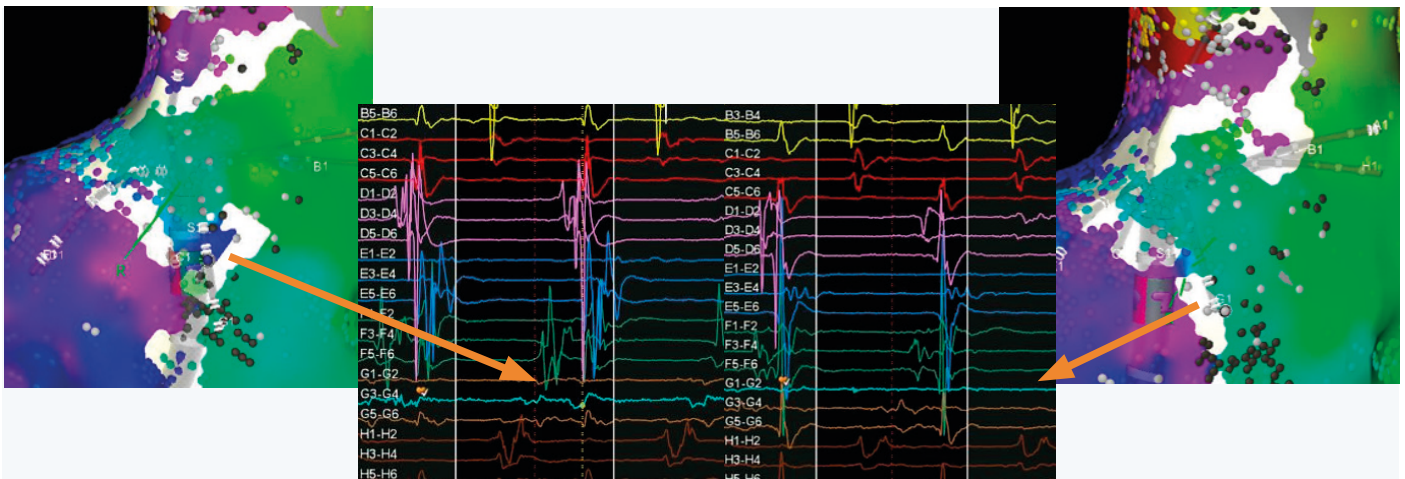
Map with greater precision and detail with improved signal quality*³

- TRUEref™ Technology
- Small electrode size
- Tight spacing

TRUEref™ may improve electrogram annotation with the wavefront algorithm.

WITH TRUEref™

WITHOUT TRUEref™

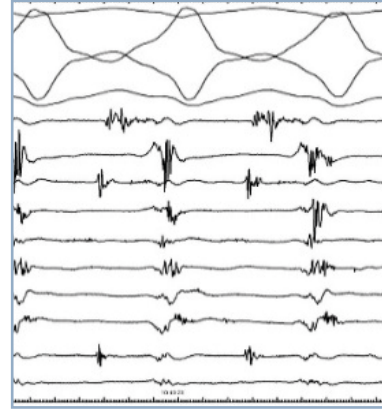


* Compared to the PENTARAY™ Catheter. Based on a single-center, pre-clinical study (n=8) and benchtop study.

OCTARAY™ Mapping Catheter



PENTARAY™ NAV eco High Density Mapping Catheter



	IntellaMap Orion	HD Grid	OCTARAY™ Mapping catheter
Scar-related AT/Redo AF^a	179 min.	207 min.	193 min.
PsAF^b	198 min.	-	146 min.
VT^c	195 min.	222 min.	192 min.

^a Indirect comparison of studies: OCTARAY-FIM Study, Clinical Study Report, July 17, 2019 (N=10, procedure time=193 min); Weighted average (N=105, procedure time=179 min) calculated from Latcu et al., 2017 (N=19, procedure time=257 min), Garcia-Bolao et al., 2018 (N=54, procedure time=142 min), and Lackermair et al., 2018 (N=31, procedure time=195 min); Krause et al., 2020 (N=24, procedure time=207 min).

^b Indirect comparison of studies: OCTARAY-FIM Study, Clinical Study Report, July 17, 2019 (PsAF N=8, procedure time=146 min; VT N=10, procedure time=192); Lackermair et al., 2018 (PsAF N=113, procedure time=198 min).

^c Indirect comparison of studies: OCTARAY-FIM Study, Clinical Study Report, July 17, 2019 (VT N=48, procedure time=195 min); Weighted average (N=76, procedure time=222 min) calculated from Campell et al., 2020 (N=22, procedure time=218 min), 9. Okubo et al., 2019 (N=41, procedure time=192 min), and Proietti et al., 2019 (N=13, procedure time=325 min).

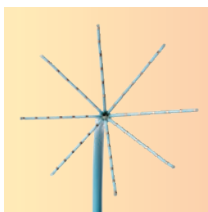
Three unique spline designs

TRUE INTEGRATION²

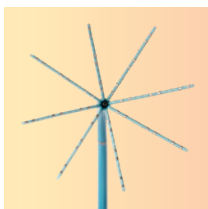
Boost performance and unleash the full potential of
CARTO™ 3 System V7²

- Familiar handling for all four chambers
- Mapping powered by CARTO™ 3 System V7
- Full integration with top ablation and ultrasound technologies

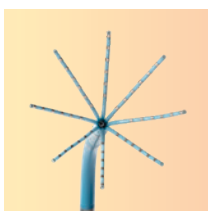
Three unique spline designs



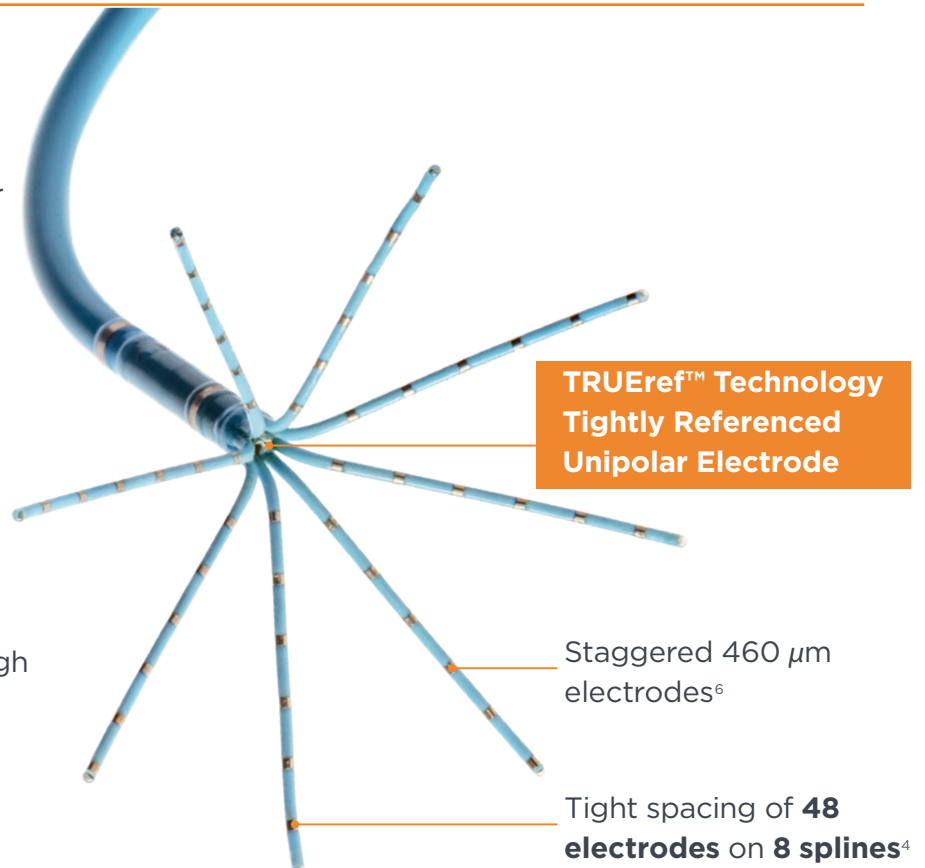
Extra coverage and high bipole density with 3-3-3-3-3 center to center spacing, 2.0 cm splines^{*,5}



Extra coverage and tight spacing with 2-5-2-5-2 center to center spacing, 2.0 cm splines^{*,5}



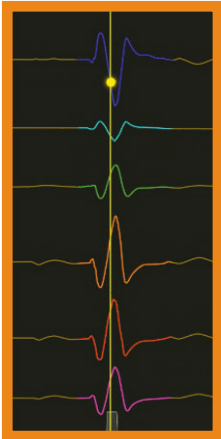
Tight spacing and high bipole density with 2-2-2-2-2 center to center spacing, 1.5 cm splines⁵



STAGGERED ELECTRODES

* Compared to the PENTARAY™ NAV ECO High Density Mapping Catheter.

CARTO™ 3 System Version 7



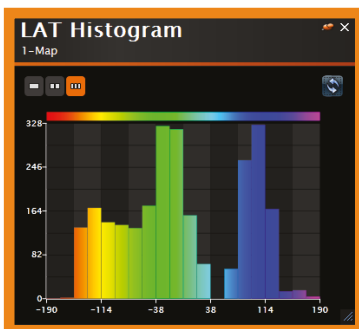
ADVANCED REFERENCE ALGORITHM

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.*⁷



IC PATTERN MATCHING

Automatically discriminates between different atrial activations based on their manifestation on the CS signals.‡⁸

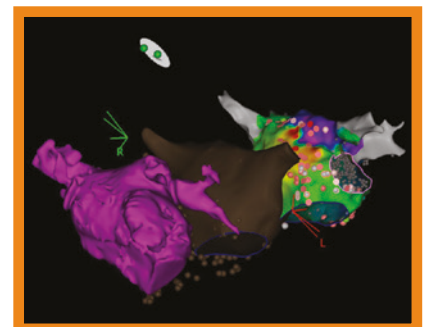


LAT HISTOGRAM

LAT Histogram is a tool that provides a visual representation of the activation throughout the entire Cycle Length.

MAP MERGE

Ability to register previous study map to the current study using registration menu.



* 98% average stability rate compared to gold standard consists of 94 test vectors with more than 69000 annotations, annotated by 8 experienced physicians.

‡ Based on bench testing.

Ordering information

OCTARAY™ Mapping Catheter with TRUEref™ Technology

Ordering Number	Spine length	Curve	Electrode spacing
D-1609-01	1.5 cm	D ●	2-2-2 mm
D-1609-02	2.0 cm	D ●	2-5-2 mm
D-1609-03	2.0 cm	D ●	3-3-3 mm
D-1609-04	1.5 cm	F ●	2-2-2 mm
D-1609-05	2.0 cm	F ●	2-5-2 mm
D-1609-06	2.0 cm	F ●	3-3-3 mm

CARTO™ 3 System eco Interface Cable

Ordering Number	Length
D134402	10 ft

CARTO™ Signal Processing Unit

Ordering Number	
KT-5070-00	
Accessories Included	
EM-5070-00F (x1)	Signal Processing Unit
CW-8602-34F (x2)	20 Pole A/B Cable
CW-0303-30F (x1)	Power Supply Cable
CW-4178-03F (x1)	Fiber Optic Cable
KT-5070-01 (x1)	SPU Holder

To order, call your Biosense Webster sales representative.

1. SHINE Study Clinical Study Report. May 27, 2019.
2. Barkagan M, Sroubek J, Shapira-Daniels A, et al. (2020) A novel multi-electrode catheter for high-density ventricular mapping: electrogram characterization and utility for scar mapping. *Europace* (0): 1-10.
3. Sroubek J, Rottman M, Barkagan M, et al. (2019) A novel octaray multielectrode catheter for high-resolution atrial mapping: electrogram characterization and utility for mapping ablation gaps. *J Cardiovasc Electrophysiol.*: 1-9.
4. CARTO® OCTARAY™ Mapping Catheter with TRUEref™ Technology, Instruction for Use, 2019.
5. Biosense Webster Drawing P-11398-00, OCTARAY P-Specs Full Tip Sub Assy, 2018.
6. BWI Engineering Drawing M-5013-00 2012. 6.2. BWI Engineering Drawing D-1609-01-S, 11/07/18.
7. Biosense Webster Internal Test Report: REP 10631; 12/2018.
8. Biosense Webster, Pattern Matching SW Unit Test Plan, REP8796, April 2020 Biosense Webster, Pattern Matching Unit Test Report, REP8797, May 2020.

For product details such as indications, contraindications, warnings and precautions please consult the IFU.

EC Representative - Biosense Webster

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