



NAVIGANT™ v2.11

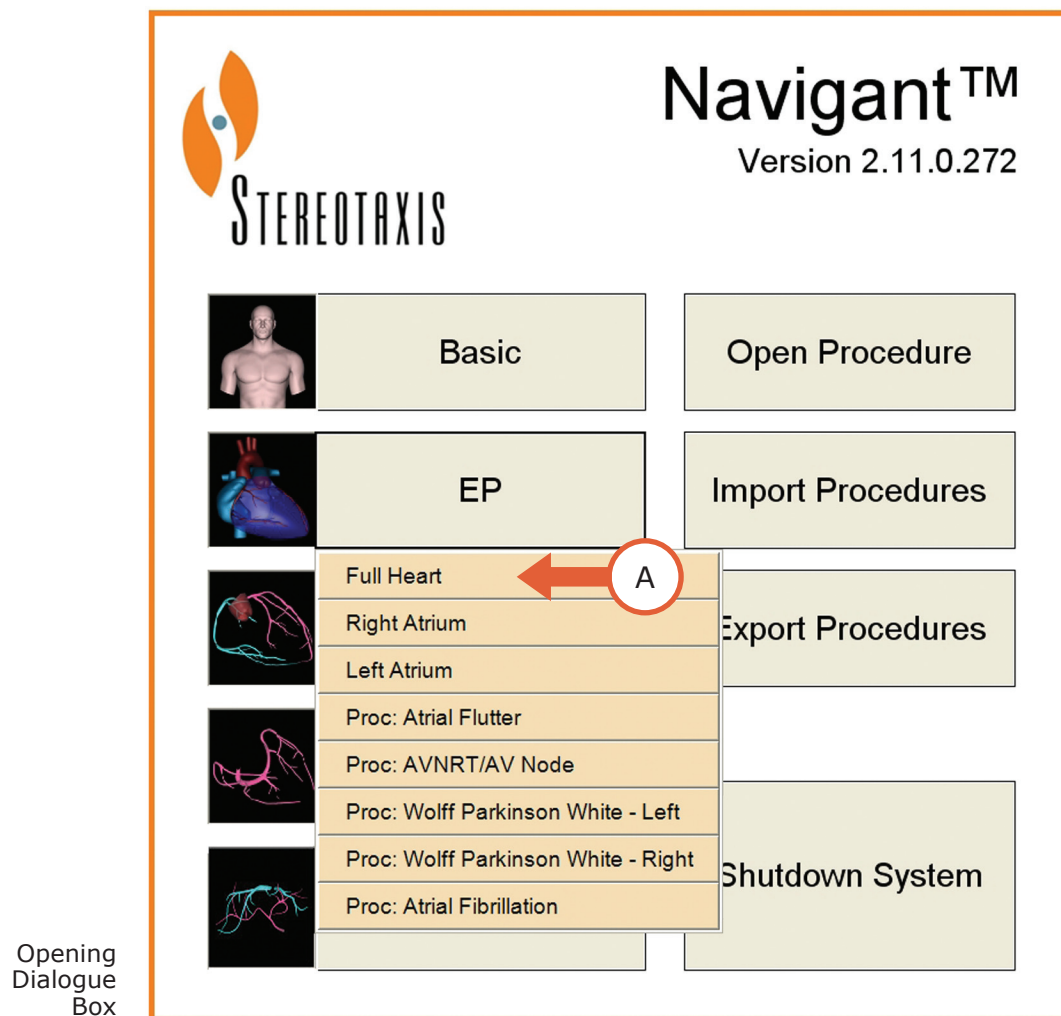
ELECTROPHYSIOLOGY  
LV NAVIGATION FOR VT



# GETTING STARTED

The **Opening Screen** displays the application procedure selection menu. Choose an application (**EP** for electrophysiology).

Choose from the drop down menu to select the type of procedure (A). Select **Full Heart** for this procedure.





## CHOOSE A CLINICAL WORKFLOW

Once the procedure has been selected, the **Procedure Information Window** will appear. A start date, time, and a study ID are automatically assigned. Fill in the description and physician's name by typing or selecting from a drop-down list if available.

The devices window will be grayed out.



**TIP**  
You must fill in the physician and description in order to save a physician layout.

Information Window

**Navigant**  
Version 2.11.1.95

**STEREOTAXIS**

Start: 12/4/2007 1:12:46 PM

Study ID: (Navigant used without Niobe).0000008

Description:

Physician:

Procedure: Full Heart : EP

Devices:

Notes:

Clinical Workflow: LV Navigation for VT (A)

- LA Mapping
- LA Mapping for SVT
- LV Navigation for VT
- RA Mapping for SVT
- RVOT Mapping for VT
- SVT Navigation

Click the triangle (A) and select the Clinical Workflow from the drop down menu.

Click **OK** once the **Clinical Workflow** has been selected. The Navigant main screen will appear.



# LV NAVIGATION FOR VT WORKFLOW

Clinical workflows are designed to facilitate case progression in the following ways:

- By providing a simple step-by-step approach to automation and integration
- Keeping navigation and control options easily accessible throughout the case

The Clinical Workflow Manager menu will be on the left side of the monitor. Click **Execute ▶** to advance to the next numbered step.

Once all steps have been completed, use the **Execute ▶** button at the bottom of the tab window to advance to the next tab window.

Each tab on the CWM lists steps pertaining to a part of the procedure. By progressing through the appropriate steps, you can complete a portion of the study.



CWM Tab Controller buttons:  
Start Over (left)  
Execute Step (middle)  
Next Section (right)

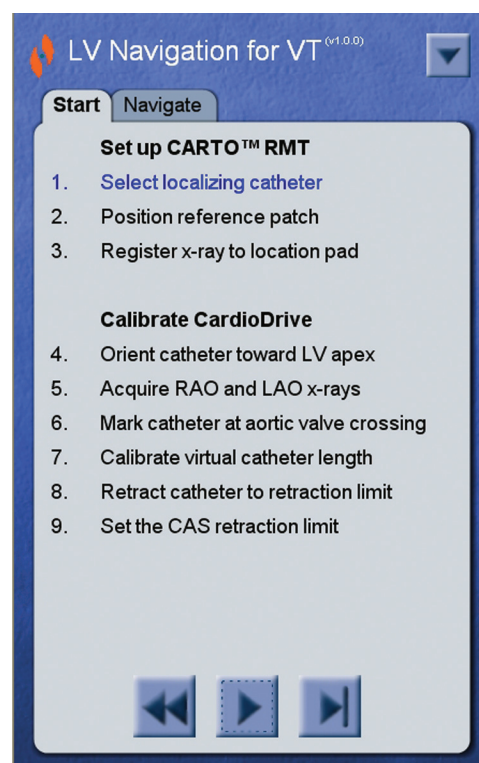
The left ventricle (LV) navigation for ventricular tachycardias (VT) start menu in the clinical workflow manager (CWM) is divided into two parts:

## SET UP CARTO™ RMT

After completion of these steps Navigant and Carto will be integrated.

## CALIBRATE CARDIODRIVE

Automation is enabled after completion of these steps.





# SECTION 1: SET UP CARTO RMT

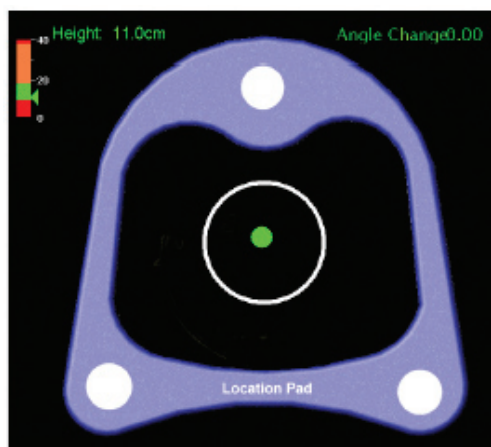
## 1. Select localizing catheter

Select the catheter from the Device selection window pop-up.

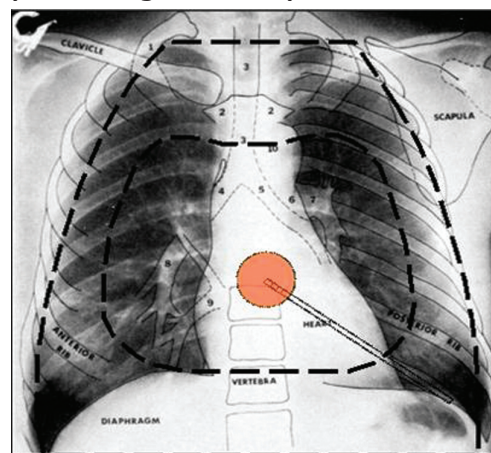
## 2. Position reference patch

Carto will pop-up in the emphasis window with the location pad reference. Ensure patch is appropriately placed at this time.

(See images below)



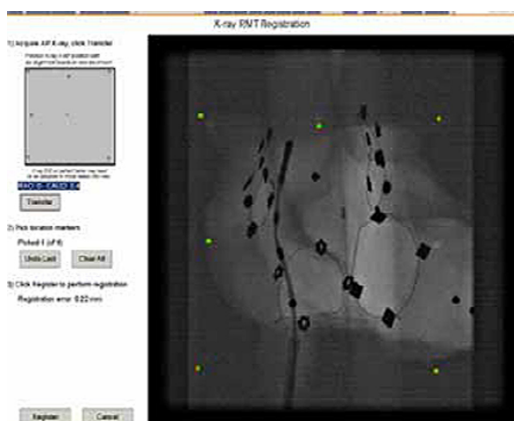
Step 2 - Position Reference Patch



Step 2 - Fluoro of Patch Reference Point

## 3. Register x-ray to location pad

- The registration screen will occupy the main screen area.
- Transfer an AP image in which all six radiopaque markers are visualized as seen on the reference template
- Select all six markers with mouse clicks. At this time, a registration error will be displayed on step 3 of the registration screen. Check the registration error.
- The registration error must be below 1.0 mm. If greater than 1, select clear all and remark.
- Select register (D).



Step 3: Transferred AP Image



## SECTION 2: CARDIODRIVE

### CALIBRATE CARDIODRIVE

**3. Orient catheter for alignment**

Position the catheter so the tip is located in the center of the chamber. Selecting this step will apply the initial magnetic field.

**4. Acquire RAO and LAO x-rays**

Acquire and transfer RAO and LAO images (must be minimum of 40° apart).

**5. Mark sheath base proximal to distal**

This step identifies the anatomical location of the catheter's entry point.

- a. Position the mouse over one of the transferred fluoro images where the catheter enters the chamber
- b. Click and drag the mouse over the catheter shaft from proximal to distal (a short segment)
- c. A red line will appear indicating the path
- d. Repeat steps a and b on the second fluoro image using the yellow dotted line as a position reference. A pop-up will appear asking that you accept or reject the identified sheath base.
- e. Once accepted, the sheath base will appear

**6. Calibrate CAS length**

The calibrate window will pop-up and the yellow virtual catheter will appear. Click advance or retract to set the length of the virtual catheter equal to the length of the actual catheter.



#### TIP

Do not move the Cardiodrive during the calibration of the CAS length.

**7. Retract catheter to the retraction limit**

Using Cardiodrive micro-navigation tools retract the catheter until the middle magnet of the catheter tip is in the mitral valve region.

**8. Set the CAS retraction limit**

By clicking this step, Navigant stores the retraction limit, and will prevent the catheter from moving past this point during automated movements.

Click **Execute** ► to advance to the next tab.



# NAVIGATE PALETTE

The navigate tab allows customizing of the images, palettes, and tools on the Navigant screen.

The Views section of the tab allows the display of:

- Fluoro (A and B)
- CARTO RMT Map
- Anatomic Model
- Layout Views (2 or 4 panel)

The Control Panels section allows the display of the different tools to assist in the procedure. The panels are displayed above the image windows.

- Points and Constellations
- Presets
- Stored Navigations
- NaviLine Sequencing
- Bulls Eye

