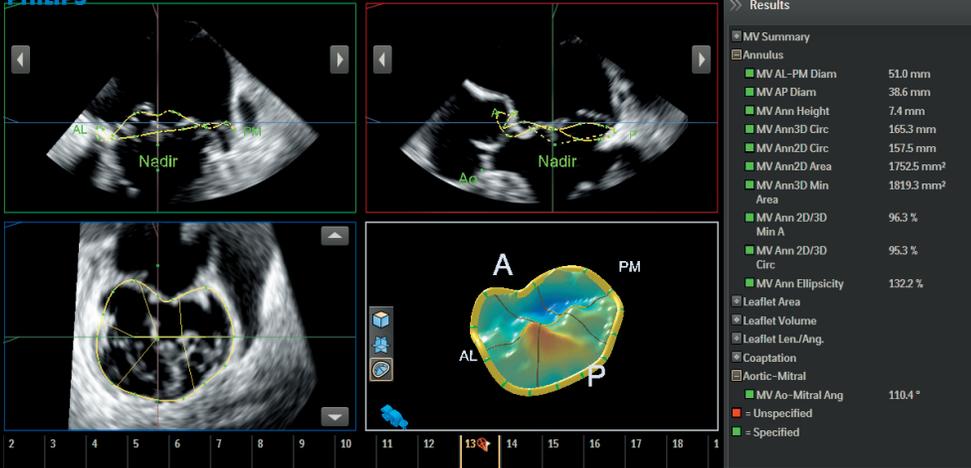


PHILIPS



Quick Guide

QLAB 10 – Mitral Valve Navigation (MVN^{A.I.})

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The **MVN^{A.I.} Tasks** tab contains guided steps for the user to obtain valve measurements on x7-2t 3D data sets (ECG required). Completion of steps 1-4 provides essential annular measurements. Completion of optional guidance steps 5-8, provides additional editing options and measurements.

MVN^{A.I.} task guidance steps 1-4:

- 1. ES Frame Confirmation:** The end systolic (ES) frame is automatically selected and confirmed. To select a different ES frame: click on **1. ES Frame Confirmation** tab, click arrows to preferred frame, and then press **Confirm**. The selected frame will be flagged (Figure 1).



Figure 1

Note: The box borders and arrows in the figures were added to the images in this quick card. Chroma has been used on some images.

2. Image Alignment: The illustration in the lower right quadrant provides visual guidance for alignment of the green, red and blue planes.

- Rotate the red plane to align the plane with the illustration in the lower right quadrant (Figure 2). Move and tilt the blue line to transect the annular points.
- Align the green plane to center the red line (Figure 3).
- The blue plane serves as a reference to confirm that the aorta and LV are aligned like the illustration. Tilt the red line to align.

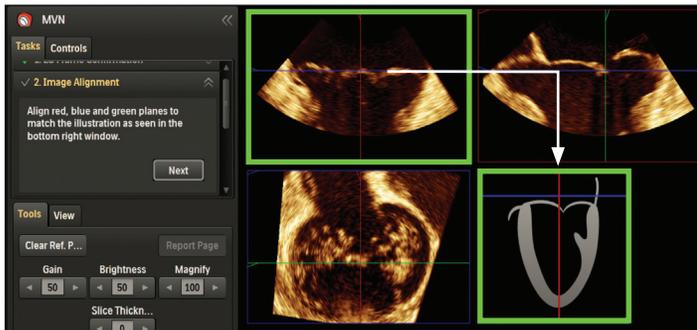


Figure 3

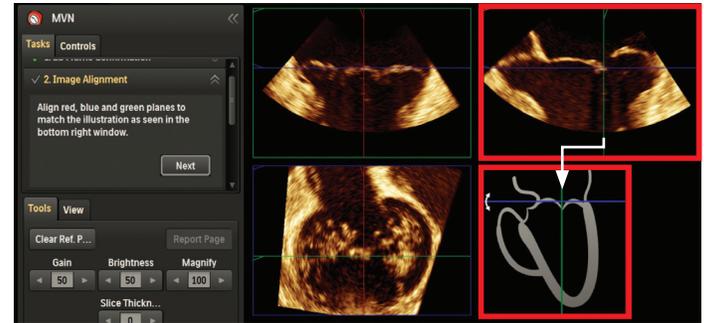


Figure 2

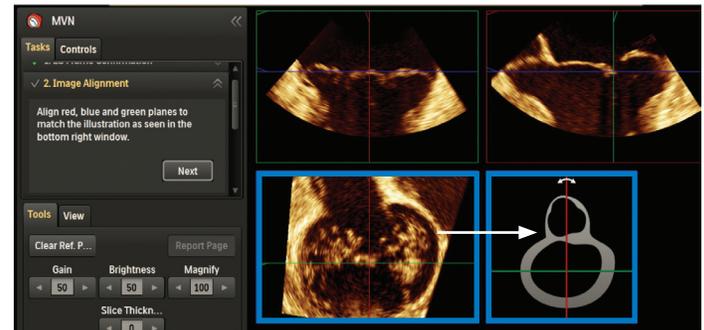


Figure 4

- Do not adjust the green line placement (Figure 4). Press **Next**.

- 3. Ref Pt. Selection:** The illustration in the lower right quadrant provides visual guidance for point placement.
 - Place the AL and PM points in the green plane and left click to set.
 - Move the cursor to the red plane, place the A and P reference points and left click.
 - To edit the red Nadir and AO points, place cursor over the point; and then left click and hold to move (Figure 5).
 - Press **Next**.

Note: The blue progress bar indicates processing progress. Results display in the right panel (Figure 6).

- 4. Annulus Editing:** Check annular point placement by rotating the arrows on the image.
 - If no editing is necessary, press **Done**.
 - If editing is necessary, left click and hold any annular point in the red or green planes to move the points.

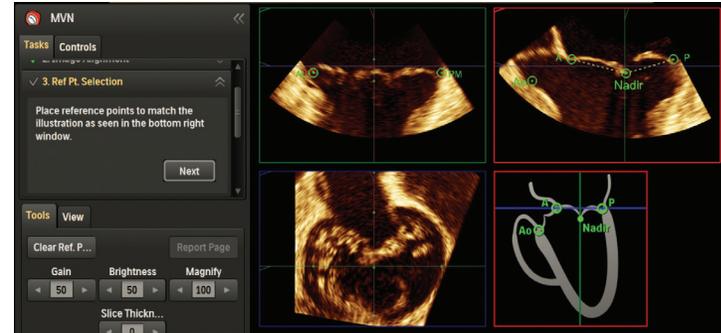


Figure 5



Figure 6

- The blue plane is for reference only. Press **Done**.

These optional steps provide additional editing options and measurements.

MVNA^{AI} task guidance steps 5-8.

- 5. Commissure Editing:** Left click and hold commissural points to adjust if necessary. Press **Next** (Figure 7).
- 6. Leaflet Editing:** Navigate the image using the arrows on image (Figure 8). Left click leaflet trace points to adjust if necessary. Edit coaptation points, if leaflets fail to demonstrate coaptation. Press **Next**.



Figure 7



Figure 8

Note: **Recalc Leaflets** clears manual edits unless **Cancel** is selected.

- 7. Border Editing:** Right click to specify the leaflet segmentation points (A1, A2, A3, P1, P2, P3). Left click on a green diamond and hold to adjust if necessary (Figure 9). Press **Next**.
- 8. Papillary Tip Selection:** Right click to specify the papillary muscle tips, if visible. Press **Done**.

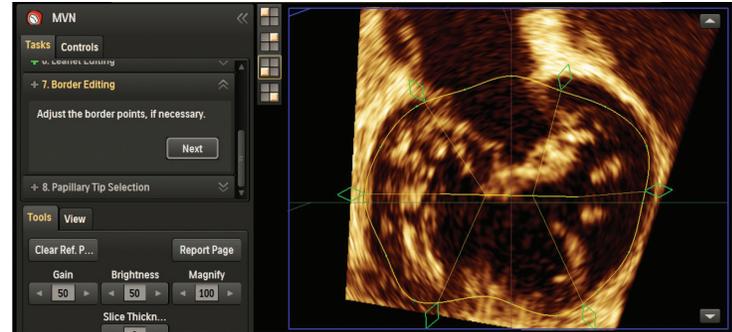


Figure 9

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