

## Aplio500 Fly Thru



For software version 2.02

FlyThru mode is used to display the interior of luminal structures (such as blood vessels) three-dimensionally by setting a viewing point along the center line of the duct or cavity and displaying the volume using a perspective projection of the acquired 4D ultrasound information.

### ACQUIRE 4D VOLUME

1. Press 4D Single Sweep (enters 4D set up mode)
2. Confirm ApliPure+ is ON, slightly increase overall 2D gain, use lower dynamic range 50-60 range
3. Size ROI to target anatomy
4. Press Single Sweep again to start acquisition of volume data
5. Press Raw Clip Store to save volume data to HD

### FLY THRU

1. Press quad/layout button on control panel to enter MPR display
2. Ensure cross hairs in the middle vessel/ anatomy in all MPR projections, use trackball to position
3. Select Fly Thru on Touch Screen
4. To change the position of the viewing point for the FlyThru, move the cursor to a position on the lines until its shape changes to a hand. Press and hold down the SET key and scroll trackball to reposition the line and release SET key.
5. Confirm viewing direction/arrow direction, adjust if necessary by positioning cursor on arrow head and rolling trackball to position and pressing SET key or rotating X/Y/Z controls on panel
6. Press Start

### FLY THRU CONTROLS

**START:** activates fly thru movement through the lumen

**STOP:** stops the fly thru movement

**REVERSE:** reverses the viewing direction

**MPR SYNC:** Adjusts MPR cut planes according to Fly Thru movement

**MPR FIX:** Adjust MPRs to reflect the Fly Thru viewing direction in the volume

**SPEED:** Adjusts the viewing movement speed

**BROWSE:** Adjusts the position of the viewing point, steps incrementally through volume (clockwise=forward counter clockwise= backward)

**ZOOM:** changes viewing angle, zooms image

**THRESHOLD:** Adjusts the border of the wall. Helps visualize intensities beyond threshold value in FlyThru image.

**FILTER:** Adjusts smoothness of wall (2 for vessels and ducts, 3 for large vessels)

**TRANSPARENCY:** adjust softness

**ANIMATION STORE:** stores fly thru animations as an .avi file to a CD or USB. (20 seconds in length unless stopped)

**ANIMATION STOP:** ends animation storing

**QUIT:** exits Fly thru

### FLY THRU TIPS

Rotate target vessel in the horizontal position on top right and display target vessel in a long axis view on bottom left/coronal MPR- makes it easier to set the direction of Fly Thru.

If the wall is 'bumpy' increase filter to 3

## FLY THRU ON A STORED VOLUME

1. Select Patient Browser
2. Select Patient Study from list
3. Double click image with volume icon for Fly Thru
4. Volume ready for navigation

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