

INSIGHT THROUGH IN VIVO IMAGING™

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Part Number 12034

Quick Start Guide

This is a high-level procedure for acquiring and analyzing an image and then exporting your analysis.

You will find this quick start tutorial useful:

- If you are familiar with how ultrasound systems work and you want to jump in and give it a try
- If you haven't used the system in a while and want a refresher tutorial

Before you begin

- Ensure that you have connected a transducer to the transducer port on the front of the cart.
- If you are imaging an animal, ensure that the animal is properly prepared on the animal platform and ensure that the animal is connected to the physiological data monitoring system.



WARNING: Before using the VEVO 2100 any operator must read and observe the Safety Warnings and Precautions in *Safety*.

To acquire and analyze a B-Mode image and export your analysis:

- 1. On the back of the cart, turn on the **Main Power**.
- 2. On the left side of the cart press the Computer Standby toggle.

The computer operating system starts and then the Vevo 2100 Imaging System software starts and displays the **VisualSonics Vevo® 2100** dialog.

3. In the **Application** box select the type of imaging application: General Imaging or Cardiology.

The system initializes the transducer and opens the Study Browser window.

4. Press B-Mode

The **B-Mode** imaging window appears and the system begins acquiring B-Mode data.

- 5. Refine your image using the various control panel controls such as the Image Depth toggle control, the 2D Gain dial and the Invert button.
- 6. Press Scan/Freeze to stop the data acquisition.
- **7.** Press **Cine Store** to save the sequence of images in the system buffer. In the background:

- The system creates a date-stamped new study for you as well as the first image series set, **Series 1**.
- The system stores a date-stamped cine loop of the B-Mode data you are acquiring
- 8. Press Scan/Freeze again to resume the data acquisition.
- **9.** Continue freezing and storing as required.
- 10. Press Study Management

The **Study Browser** window appears and displays the new date-stamped study, new date-stamped study series and the new time-stamped images.

You can now analyze the image data.

11. In the **Name** column, double-click the **Series 1** row.

The review panel displays thumbnails of the images you stored.

12. Double-click the first thumbnail.

The B-Mode window appears and plays the cine loop you stored.

- **13.** Using the **Cine Loop Review** dial:
 - a. Turn the dial counter-clockwise to slow the loop down until you reach your desired playback rate
 - b. Press down on the dial to toggle the cine loop to stop.
 - c. Turn the dial one way or the other to control the movement of the cine loop frame by frame.

14. Press Measure

The measurement tools appear near the top of the left panel.

- **15.** In the measurement packages list box:
 - d. Click the appropriate measurement package for your study. For example, click **Embryology Package**.

The system displays the list of available measurement protocols.

e. Click the appropriate protocol. For example, click **Placenta**.

Under the protocol label, the system displays the list of predefined protocol measurements.

f. Click the appropriate measurement. For example, click Placenta Sag.

The list box becomes a preview panel and the system highlights the icon for the measurement tool that the system uses for the protocol measurement. For the Placenta Sag measurement, the system uses the **Linear** tool.

16. In the image area, place and complete your measurement.

When you have completed your measurement, the system applies a label or index number to your measurement based on the preferences you set in the Measurement tab of the Preferences window.

The system also displays the value in the Measured Values list.

17. Press Study Management

The **Study Browser** appears. The thumbnail of the image you have been adding measurements to displays the most recent frame you worked on, including the measurements.

18. Click the Series 1 row and click Report.

The **Analysis Browser** appears and displays a report of the measurements you made for that series, listed in order by application package.

19. Click Export.

The Export Report window appears.

- **20.** In the **Export Report** window:
 - a. Browse to the folder where you want to export your report.
 - b. If you want to create a new folder, select the folder that will hold the new folder, click **New Folder**, type the folder name in the **New Folder Name** dialog box, and then click **OK**.
 - c. In the **Options** area, modify the title of the report in the **Save As** box if required.
 - d. Click OK.

The system exports your report.

You have successfully acquired and analyzed an image, and exported your report.

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