



# Quick Guide

## Sparq Ultrasound System

English

**PHILIPS**  
sense and simplicity



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For easy reference, each section is color-coded. The color of each section title correlates with the color band on each page in that section.

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## About This Guide

This *Quick Guide* provides basic information about frequently used features of your Sparq Ultrasound System. For more information, see the system *Help*, the *User Manual*, or visit this website:

[www.philips.com/sparq](http://www.philips.com/sparq)

The website also includes an electronic version of the *Quick Guide*.

## Conventions

These terms are used in this *Quick Guide*:

Term	Description/Action
Image/image area	Ultrasound-scan area on the imaging display
Imaging display	Information displayed on the screen of the monitor
Press	Activate a quick key on the monitor bezel
Select, deselect	Move pointer or cursor to item and tap left trackpad control or main trackpad area to activate or deactivate item
Tap	Activate trackpad controls or main trackpad area
Touch	Activate control-panel functions

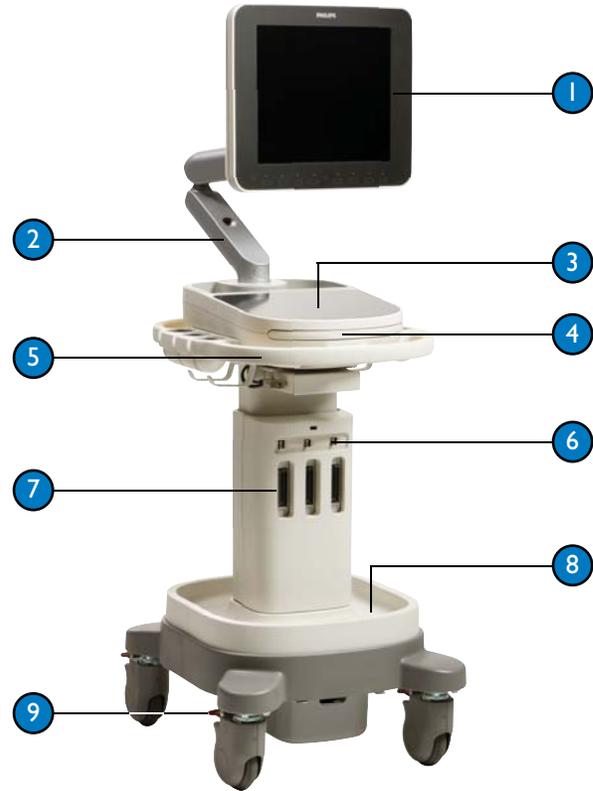
These numbering styles are used in this *Quick Guide*:

Style	Description
	Indicates a system component or a display element
	Indicates a step and the control location or system component associated with the step shown in an illustration
	Indicates a step with no callout on an illustration



## Sparq Ultrasound System

- 1 Monitor
- 2 Articulating arm: allows the monitor to extend 0.6 m (24 in) in any direction.
- 3 Control panel
- 4 Pull-out keyboard
- 5 Wraparound handle with height-adjustment bar (inner edge)
- 6 Transducer lock/unlock latches
- 7 Transducer ports
- 8 Transducer cable catch
- 9 Wheel lock and brake



## Moving the System

Before moving the system to a new location:

- ① Disconnect all external cables.
- ② Lock together sections of monitor articulating arm.
- ③ Fold down monitor until parallel to control panel.
- ④ Release wheel brakes and ensure that cables do not interfere with free movement of wheels.
- ⑤ Move system using handle.
- ⑥ When you are ready to reposition monitor, press articulating-arm release.

### CAUTIONS

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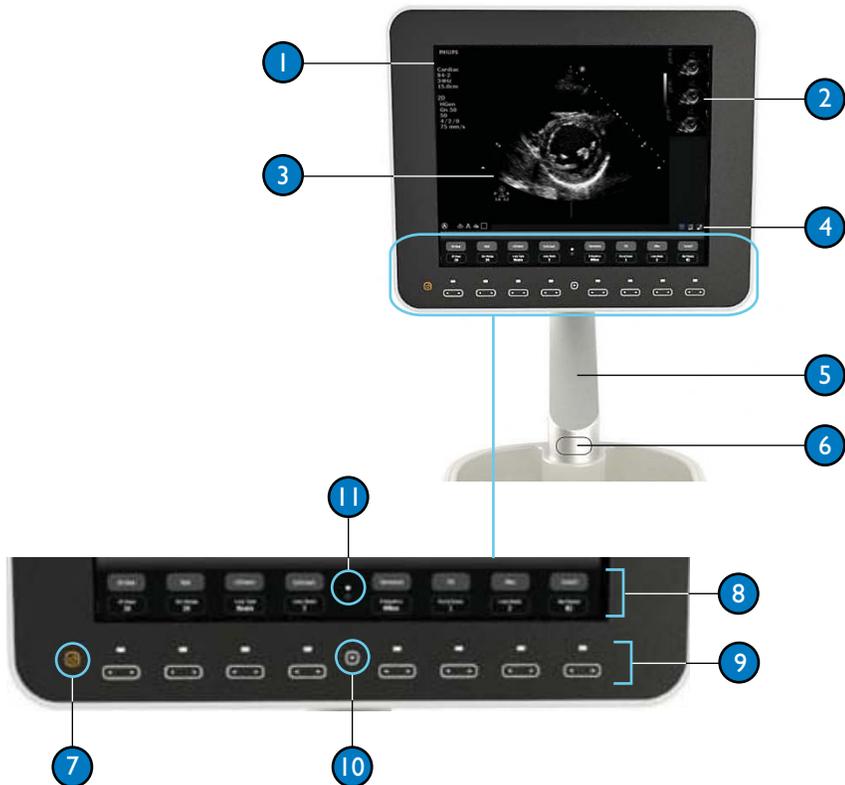
- Failure to lock the articulating arm when moving the system could result in physical instability of the system.
  - Do not roll the system over transducer cables. Doing so could damage the cables.
  - Do not place any objects on the folded-down monitor. It is not designed to support added weight.
- 

For more information on moving the system, see the system *User Manual*.



## Monitor

- 1 Imaging display (entire display area on monitor)
- 2 Thumbnail area
- 3 Image area
- 4 Power/battery status icon
- 5 Articulating arm
- 6 Articulating arm release/lock
- 7 Quick key display On/Off (Labels and controls are off by default. Press to display; press again to hide.)
- 8 Quick key labels
- 9 Quick key controls
- 10 Quick key Next Page control
- 11 Quick key page indicator (Number of circles indicates number of pages.)



## Imaging Display Icons

The following icons may appear in the lower portion of the imaging display, above the quick key function labels.

Icon	Description
------	-------------



Appears when Caps Lock is on



Appears when XRES imaging is on



Appears when SonoCT imaging in Target Mode is on



Appears when SonoCT imaging in Survey Mode is on



Appears when AutoSCAN is on



Appears when iSCAN is on



Appears when color iSCAN is on



Appears when system is ready to acquire an image



Appears when Review mode is active

## Imaging Display Icons (Continued)

Icon	Description
------	-------------



Wired network connection status (x = not connected ● = connected)

Click to open DICOM setups, if DICOM is installed.



Wireless network connection status (x = not connected ● = connected)

Click to open DICOM Setups, if DICOM is installed.



Network packet capture status (x = enabled but not running ● = enabled and running)

Appears only when feature is enabled by a Philips service representative.



Appears when remote desktop is enabled. Green waves appear when remote user is connected.

Click to display connection status and user name.



Appears when battery power is unavailable. Power down before unplugging system.

Click for more information. (See “Icons on Imaging Display” on page 25.)



Icon indicates battery charge is low. Plug system into AC power.

Click for more information. (See “Icons on Imaging Display” on page 25.)



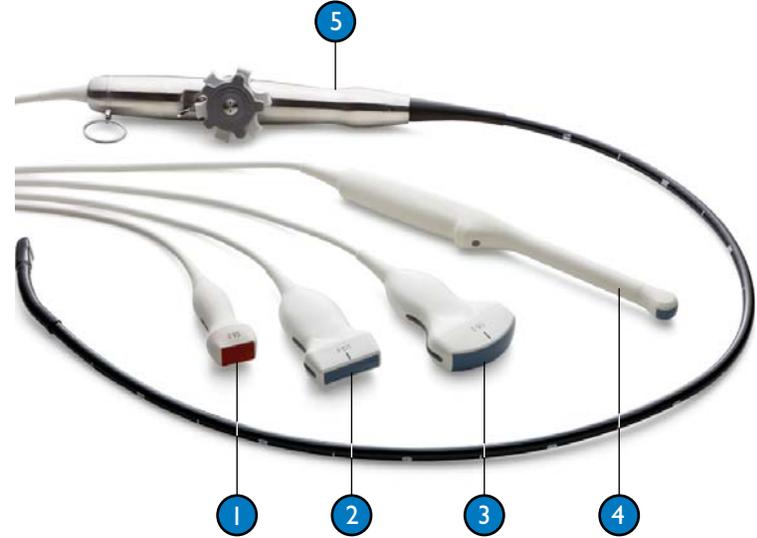
Appears when print job is being sent. Disappears when print job has been sent.

For more information on the icons and the features that they represent, see the system *Help*.

## Transducers and Exams

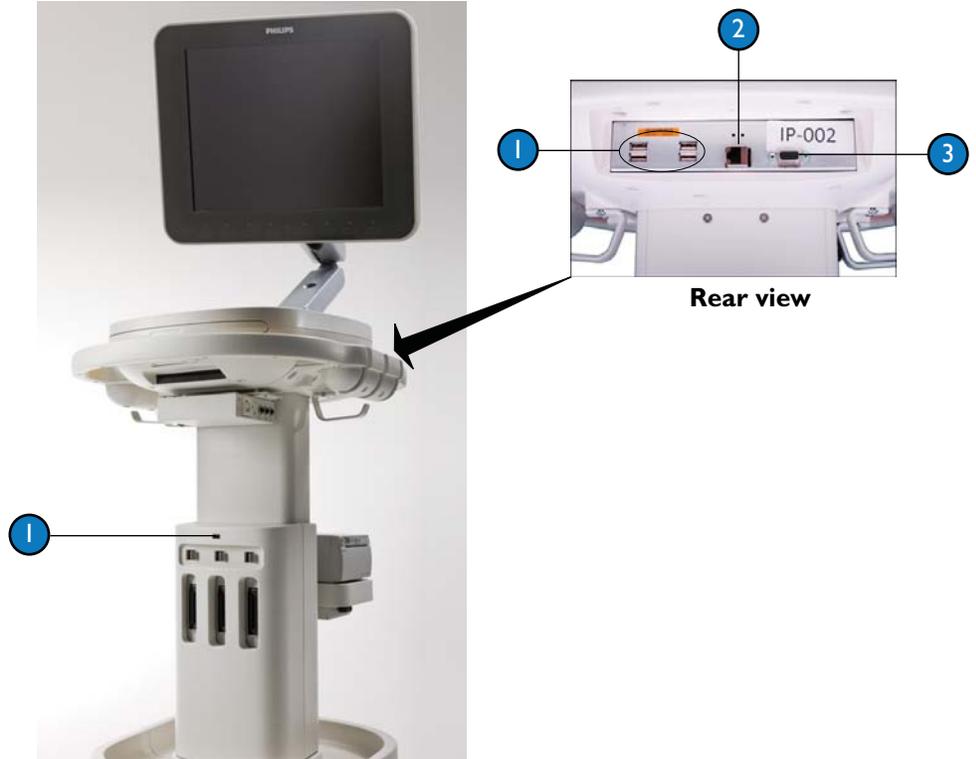
- ① S4-2: Cardiac, Abdomen, FAST
- ② L12-4: Nerve, Musculoskeletal, Superficial, Vascular Access, Lung, Arterial, Ocular
- ③ C6-2: Abdomen, FAST, Pelvic, Nerve, Spine
- ④ C9-4v: Pelvic, Superficial
- ⑤ X7-2t: Transesophageal Adult Echo

**NOTE** \_\_\_\_\_  
L12-4 and C6-2 transducers have a centerline marker to  
facilitate out-of-plane needle guidance.  
\_\_\_\_\_



## Ports

- 1 USB ports (1 front, 4 rear)
- 2 Network port
- 3 Video-out port



## Peripherals

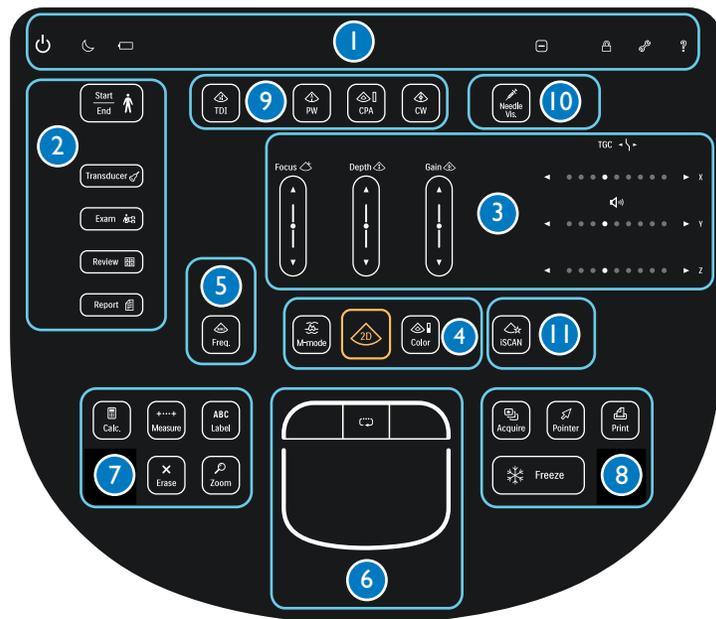
- 1 DVD drive (under keyboard)
- 2 Physio panel (optional)
- 3 Printer (optional)



## Control Panel

Sealed, tempered glass control panel for easy cleaning and disinfecting. The Intuitive Dynamic Interface is touch-based and displays active controls in amber and available controls in white.

- 1 Function controls
- 2 Workflow controls
- 3 Imaging controls
- 4 Imaging mode controls
- 5 Frequency control
- 6 Trackpad
- 7 Measurement and calculation controls
- 8 Freeze, acquire, pointer, and print controls
- 9 Doppler mode controls (TDI, PW, CPA, CW)
- 10 Needle Visualization control
- 11 iSCAN control

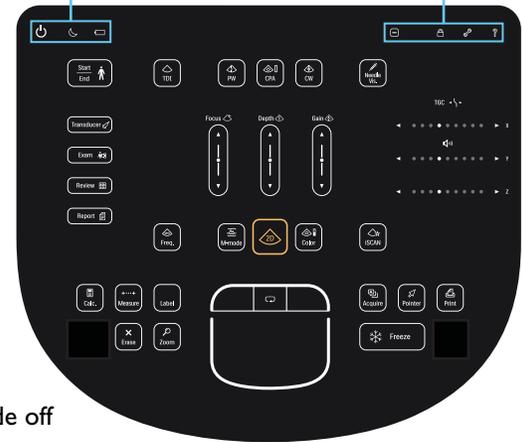
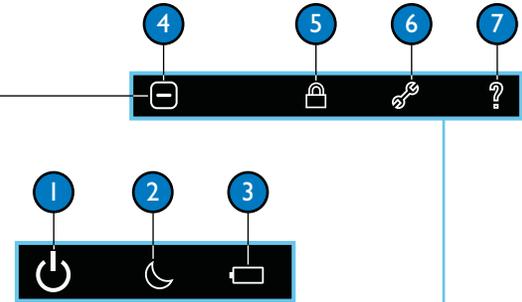


## Function Controls

- 1 **System on/off:** Touch to turn power on; touch and hold for 2 seconds to turn power off.
- 2 **Sleep:** Touch to put system to sleep. Touch again to awaken system.
- 3 **Battery status:** Indicates battery availability.
- 4 **Simplicity Mode:** Hides a set of controls that are used less frequently (**TGC**, **Review**, **Report**, **Calc**, **Measure**, **ABC Label**, **Erase**, and **Zoom**).
- 5 **Lock:** Locks control panel for cleaning. Touch to lock. Touch and hold for 2 seconds to unlock.
- 6 **Setup:** Displays configuration settings.
- 7 **Help:** Displays system *Help*.



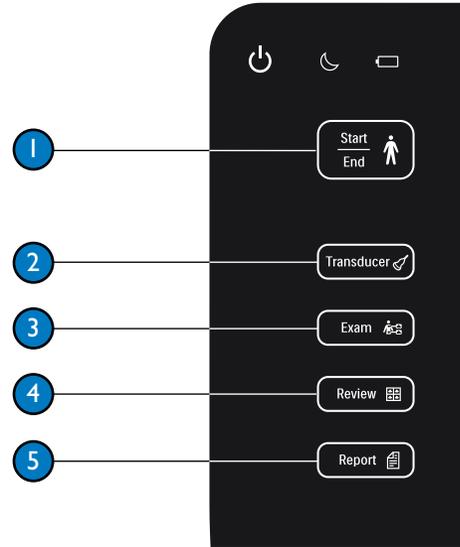
Simplicity Mode on



Simplicity Mode off

## Workflow Controls

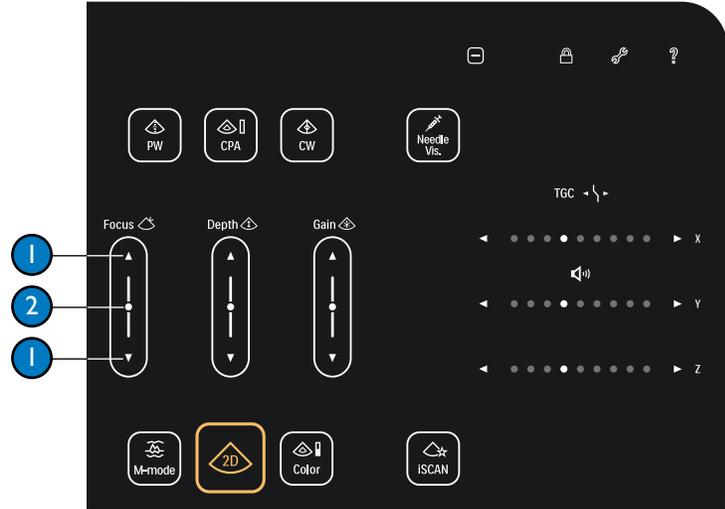
- 1 **Start/End:** Begins, edits, ends, or restarts exam.
- 2 **Transducer:** Cycles through connected transducers. Active transducer is displayed in top-left image display information.
- 3 **Exam:** Displays exam preset menu in upper right corner of image display. Highlight exam and select using the trackpad. Active exam is indicated in top-left image display information.
- 4 **Review:** Opens or closes **Review** display.
- 5 **Report:** Opens or closes **Report** display.



## Imaging Controls

**Focus**, **Depth**, and **Gain** can be adjusted using arrows or sliders.

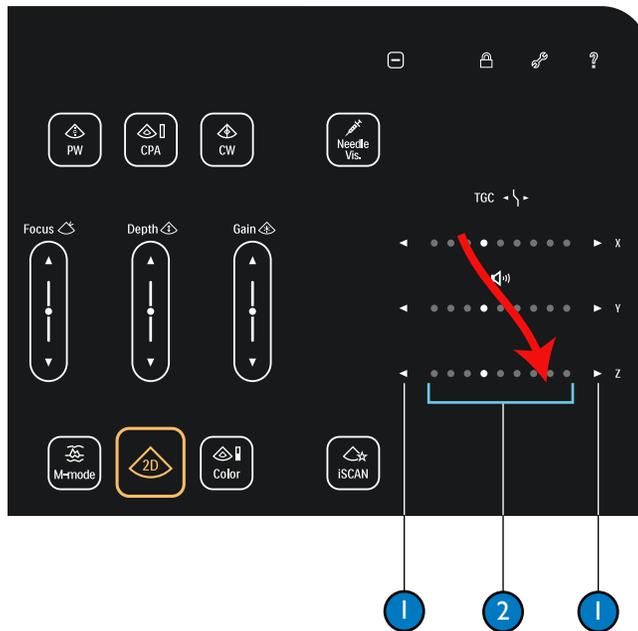
- 1 Touch arrow for incremental adjustment.  
Hold arrow for greater adjustment.
- 2 Slide finger up or down for large range adjustment.



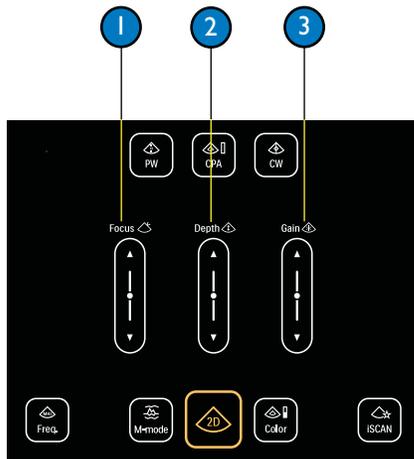
## Imaging Controls

Adjust TGC (time gain compensation) using arrows or dots.

- 1 Touch arrow for incremental adjustment.  
Hold arrow for greater adjustment.
- 2 Touch dot or slide finger along dots to adjust setting.  
Sweep your finger from top to bottom to set TGC curve.

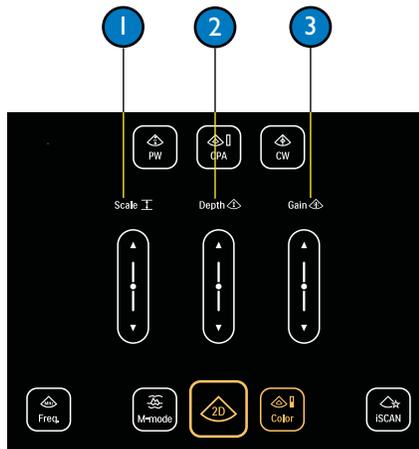


## Imaging Mode Controls



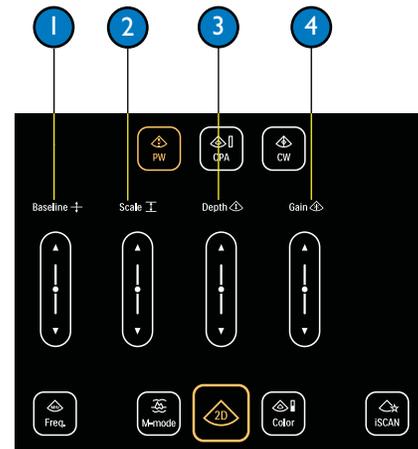
## 2D Mode

- 1 Focus
- 2 Depth
- 3 Gain



## Color Mode

- 1 Scale
- 2 Depth (2D)
- 3 Gain



## Doppler Mode

- 1 Baseline
- 2 Scale
- 3 Depth (2D)
- 4 Gain

## Frequency Control

- 1 **Freq:** Touch to cycle through available settings.
- 2 Frequency icon is near lower-left corner of image. Current frequency range appears below the triangle.

If Harmonics is on, current setting is circled.

If Harmonics is off, white section in triangle indicates frequency.

**P** = Penetration

Lower frequency settings

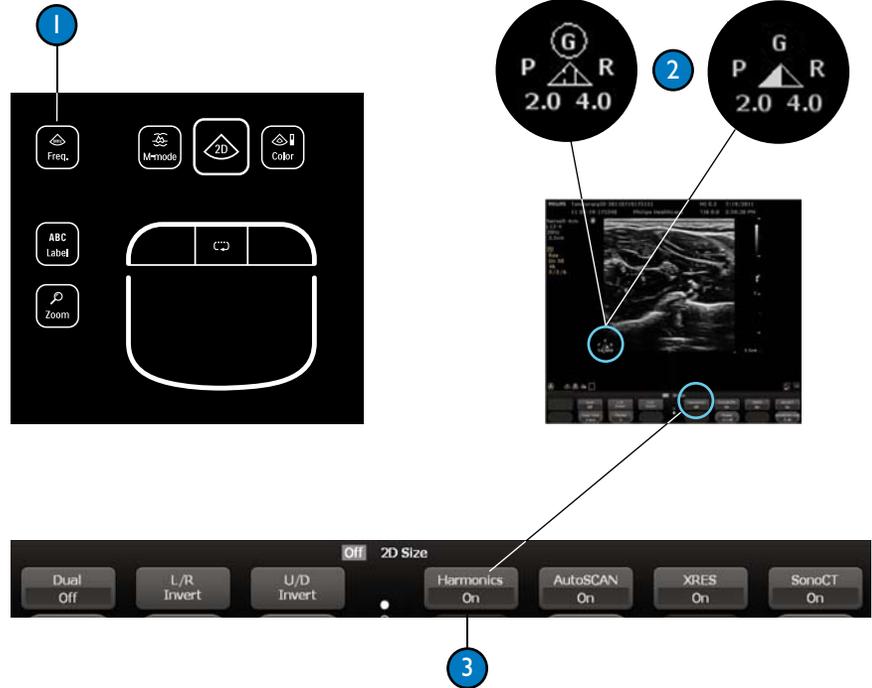
**R** = Resolution

Higher frequency settings

**G** = General

Mid-range frequency settings

- 3 **Harmonics:** Turn on or off with quick key control. **On** is the default setting for many exams.

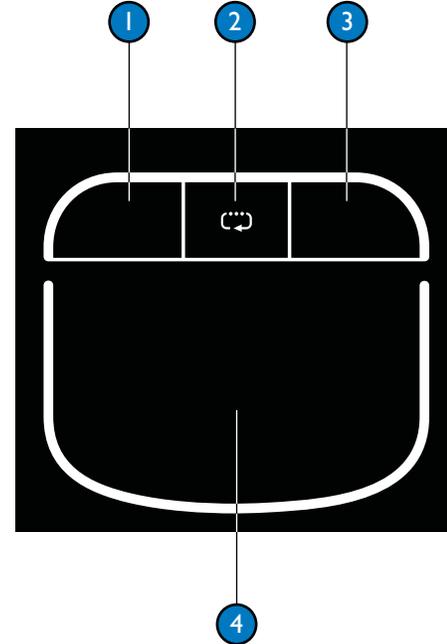


## Trackpad

- 1 **Left control:** Selects or enters functionality, and completes measurements.
- 2 **Center control:** Cycles through trackpad control functions.
- 3 **Right control:** Opens right-click menu or moves to next measurement.
- 4 **Main area:** Functions as a trackball, selects or enters functionality, and completes measurements.

### NOTE

When selecting a displayed item, point to the object and tap the left trackpad control or the main trackpad area.



## Power Management

The system uses either battery or AC power. Fully charged batteries provide about 2.5 hours of scanning time.

Two icons provide battery status: one on the control panel and one on the imaging display. The icon on the control panel provides battery status whether the system is on or off. If charge is less than 12%, battery power is unavailable.

### Battery Status Icon on Control Panel: System On

Battery Icon	Icon Description	AC Power	Battery Status
	Steady green	Yes	Charge level greater than 12% and charging
		No	Charge level greater than 12%
	Steady red	Yes	Charge level less than 12% and charging
		No	Charge level less than 12%
	No indicator	Yes	Battery fault; “alert” icon appears on imaging display. Contact your service representative.

### CAUTION

If the battery status icon is red, turn off system before disconnecting AC power.

## Battery Status Icon on Control Panel: System Off

The battery icon on the control panel provides battery status even if the system is off. The following indicators may be displayed when the system is off. If charge is less than 12%, battery power is unavailable.

Battery Icon	Icon Description	AC Power	Battery Status
	Steady green	Yes	Fully charged
		No	Charge level greater than 12%
	Blinking green	Yes	Charge level greater than 12% and charging
	Red with blinking green	Yes	Charge level less than 12% and charging
	No indicator	Yes	Battery fault. Contact your service representative.
		No	Charge level less than 12% or battery fault

## Icons on Imaging Display

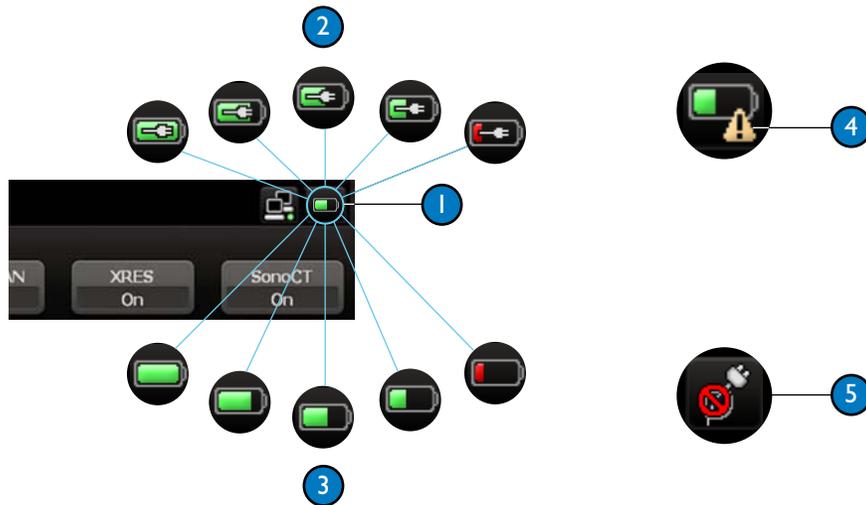
The icon in the lower-right corner of the imaging display indicates power source, battery charge status, and alert status.

- 1 Power/battery icon.
- 2 Battery charge level icons that can appear when using AC power.
- 3 Battery charge level icons that can appear when using battery power.
- 4 Alert indicator. Select the icon to display more information.
- 5 Indicates battery is completely discharged. While this icon is displayed, use AC power only.

### CAUTION



If the battery discharge icon appears, turn off the system before disconnecting AC power. When battery power is unavailable, disconnecting AC power without turning off the system may corrupt files on the hard drive and render the system inoperative.



## Battery Information

### CAUTION



If the battery discharge icon appears, turn off the system before disconnecting AC power. When battery power is unavailable, disconnecting AC power without turning off the system may corrupt files on the hard drive and render the system inoperative.

- Batteries charge whenever system is connected to AC power.
- Fully charged batteries provide approximately 2.5 hours of scanning time.
- Charging from a fully discharged state to 80% capacity takes approximately 3 hours.
- Charge the batteries whenever either battery icon is red.
- System shuts down automatically when charge level becomes critically low. To prolong battery life, connect to AC power as soon as either battery icon turns red.
- If system is off for several days and unconnected to AC power, the batteries discharge. If battery icon is not visible on the control panel, connect system to AC power to operate. When the batteries are completely discharged, it may take longer than normal to charge them.
- If battery icon on control panel does not appear when system is connected to AC power, contact your service representative.
- If AC power is disconnected while system is on and not in Sleep Mode, the system runs until batteries are drained.

## Sleep Mode

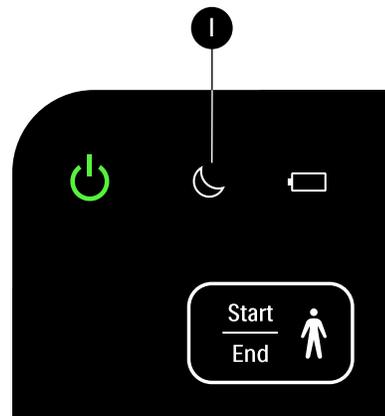
Sleep Mode is a low-power state that conserves battery power and allows a quick startup. It is intended for short periods of use, such as when transporting the system between locations.

When the system is on battery power, Sleep Mode default time-out is 60 minutes. *After 60 minutes the system shuts down completely.*

- 1 To put system in Sleep Mode, touch Sleep.  
Touch Sleep again to awaken the system.

### NOTES

- When the system is in Sleep Mode and connected to AC power, the system remains in Sleep Mode until it is awakened or turned off.
- Disconnecting AC power does not alter the Sleep Mode status. The system remains in Sleep Mode until it is awakened, reaches the time-out setting, or is turned off.
- The system does not automatically enter Sleep Mode when disconnected from AC power.
- For information on changing the Sleep Mode default time-out, see the system *Help*.



## Power Status Messages

When battery life decreases to preset thresholds, the following warnings appear.

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### Warning Message

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#### Low Battery Warning

Battery Low: The system will shutdown in 5 minutes. To prevent shut down, connect the AC power adapter.



#### Critical Battery Warning

Battery Critically Low: The system will shutdown in 1 minute. To prevent shut down, connect the AC power adapter.

The system is shutting down due to a low battery.

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### NOTE

Save and close the exam before the system shuts down.

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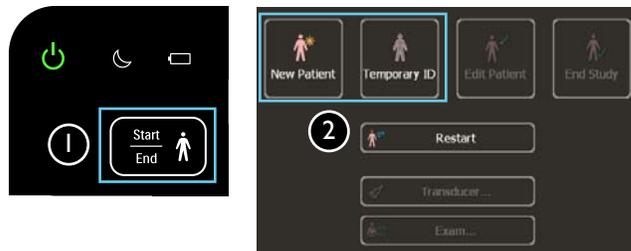
For information on changing the battery life preset thresholds, see the system *Help*.

## Start Patient Exam

- 1 Touch **Start/End** to begin an exam.
- 2 Select **New Patient** or **Temporary ID** to start a new study.
- 3 For a new patient, enter patient information on the **General** tab. Last name is required.
- 4 Select the **Additional** tab to enter patient history.
- 5 Next, select transducer and exam. See “Select Transducer and Exam” on page 30.

### NOTES

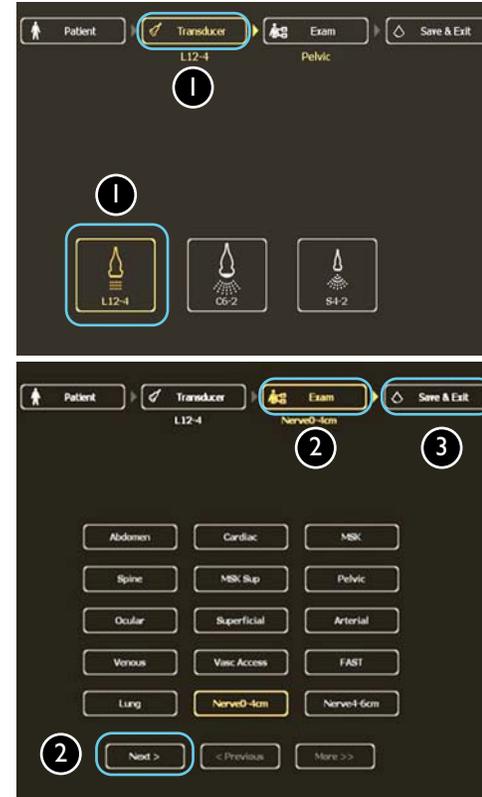
- If patient information is unavailable, use **Temporary ID** to start the exam.
- For information on entering patient data using a barcode scanner, see “Barcode Scanner” on page 55.



The image shows a screenshot of a patient information form. At the top, there are tabs for 'Patient', 'Transducer', 'Exam', and 'Save & Exit'. Below these tabs, there are buttons for 'New', 'Restart', and 'Temporary ID'. The 'Additional' tab is selected and circled with a white '4'. Below the tabs, there are several input fields for patient information. The 'Last (Family)' field is circled with a white '3'. The form includes fields for MRN, Middle, A, Alternate ID Number, Height, Weight, Referring Physician, Physician Of Record, Patient History, Last (Family), Title, Accession Number, Gender, Indication, Study Description, First (Given), Honoric, Birth Date (MM/dd/yyyy), Performed by, and Representation.

## Select Transducer and Exam

- 1 Select **Transducer**, and then select a transducer icon to activate a transducer. Only connected transducers appear. Active transducer icon is amber.
- 2 Select **Exam**, and then select an exam from listed options. If the exam you want is not shown, click **Next**. Active exam is amber.
- 3 Select **Save & Exit**, and begin imaging.



## Edit Patient and End Study

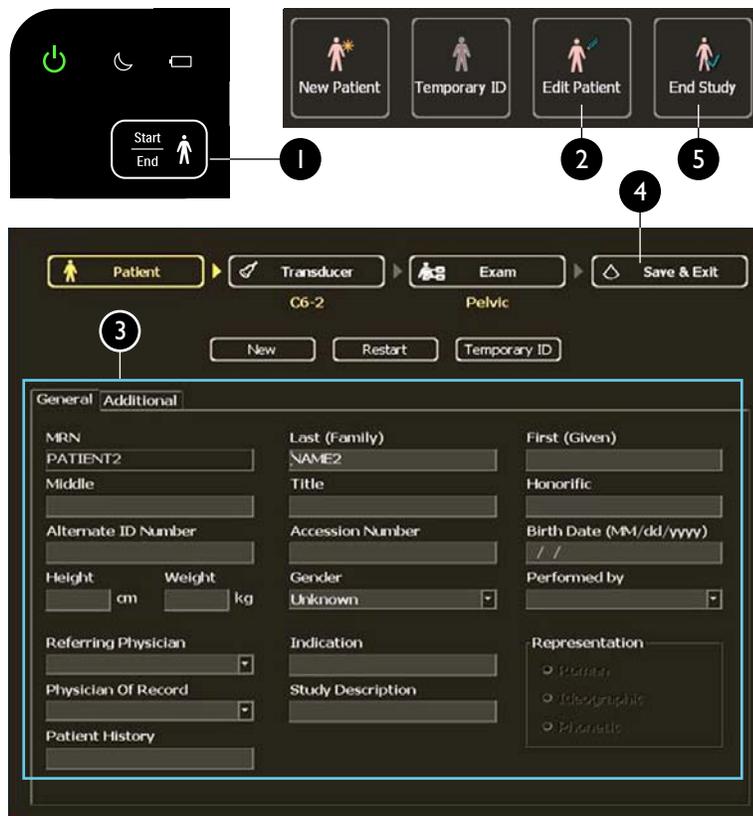
To edit patient data for an active study:

- 1 Touch **Start/End**.
- 2 Select **Edit Patient**.
- 3 Edit the patient information.
- 4 Select **Save & Exit** to return to live imaging.
- 5 Or, select **End Study** to end the study.

### NOTES

- In studies started with a temporary ID, patient data (including the MRN) can be edited within 24 hours.
- In studies with patient data, some data (name, gender, and date of birth) cannot be edited after images are acquired.
- Starting a new study ends the active study.

For more information, see the system *Help*.



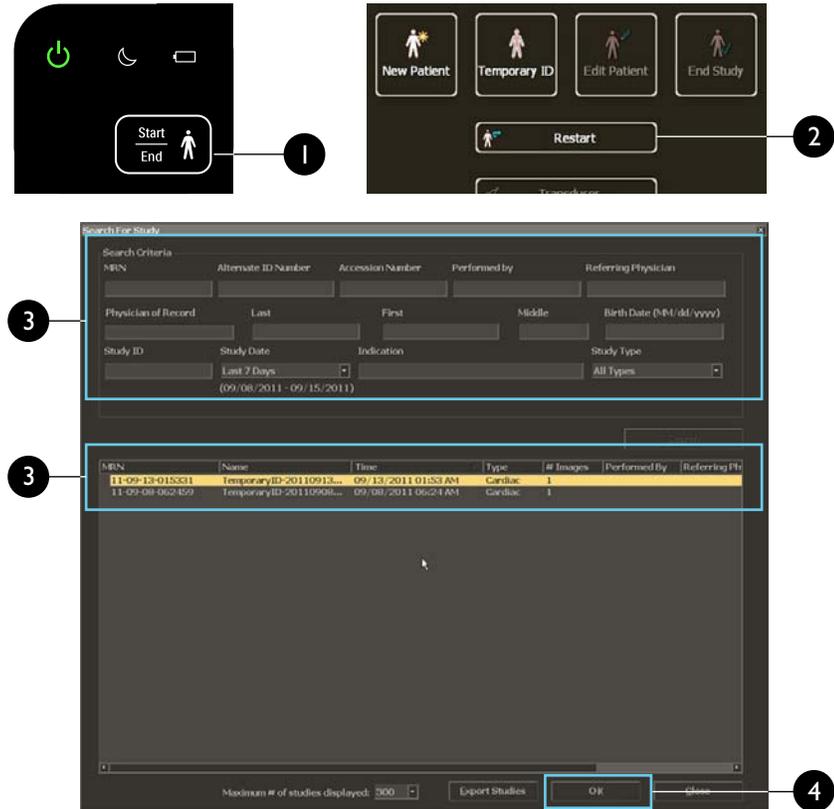
## Restart Study

To restart a study:

- 1 Touch **Start/End**.
- 2 Select **Restart**.
- 3 Select a study from the displayed list, or to query the database, enter search criteria (MRN, last name, study date, and so on) and then select **Search**.
- 4 After selecting the study, select **OK**.

### NOTES

- Restarting a study ends the active study.
- Studies can be restarted only within 24 hours.

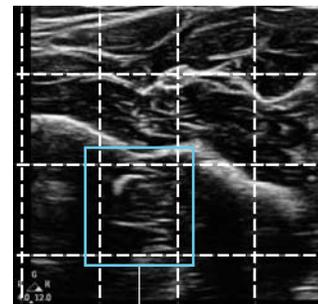
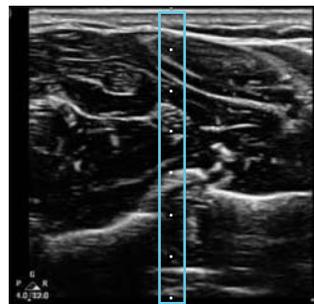


## Reference Lines

A centerline or gridlines may help guide a needle to target anatomy.

- 1 To display the centerline, open the second page of quick key labels, and press **Ref Lines** control to select **Centerline**. The displayed Centerline corresponds to the centerline marker on L12-4 and C6-2 transducers.
- 2 To display the gridlines, open the second page of quick key labels, and press **Ref Lines** control to select **Gridlines**.
- 3 Centerline markers display at 0.5 cm intervals for depths up to 5 cm, and 1 cm intervals for depths greater than 5 cm.
- 4 Gridline squares display at 1 cm intervals for depth up to 10 cm, and 5 cm intervals for depths greater than 10 cm.

**NOTE**  
Reference lines are not available in cardiac 2D or cardiac Color modes.



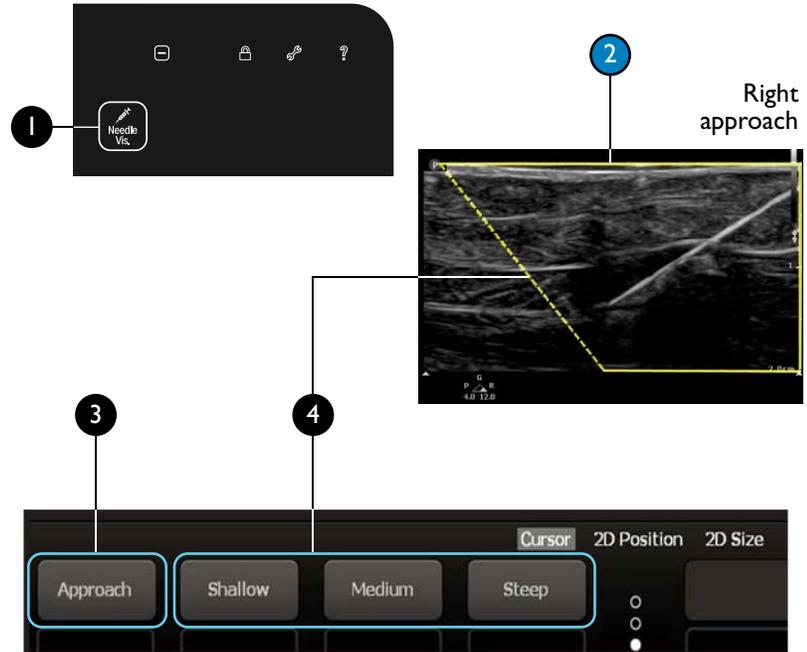
## Needle Visualization

Needle Visualization enhances the presentation of the needle.

- 1 Touch **Needle Vis** to turn on enhancement.
- 2 Needle Visualization is active within the solid and dotted amber lines.
- 3 Press the **Approach** quick key control to select **Left Approach** or **Right Approach**. Needle approach is from the corner where the solid lines meet.
- 4 Press the **Shallow, Medium, or Steep** quick key control to select the needle trajectory angle. For best results, select a needle angle perpendicular to the dotted amber line.
- 5 Touch **Needle Vis** again to turn off enhancement.

(Continued on next page)

**NOTE** Needle Visualization is available only with the LI2-4 transducer.



## Needle Visualization (Continued)

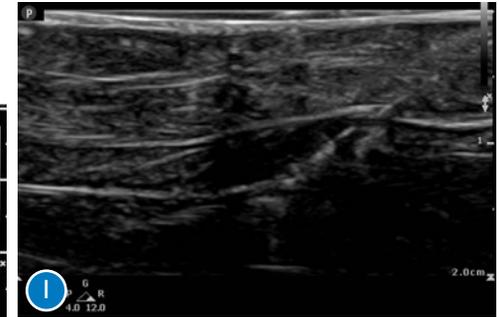
- 1 Image with Needle Visualization off
- 2 Same image with Needle Visualization on
- 3 Specular reflectors
- 4 Needle reverberation

### CAUTION

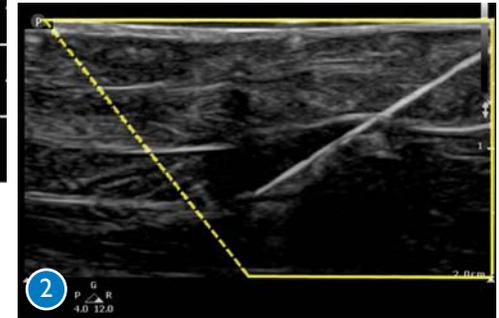
The needle is enhanced only in the area defined by amber lines. If the tip of the needle extends beyond this area, it may not be visualized.

### NOTE

When Needle Visualization is on, the image may exhibit increased specular reflectors and reverberation artifacts.



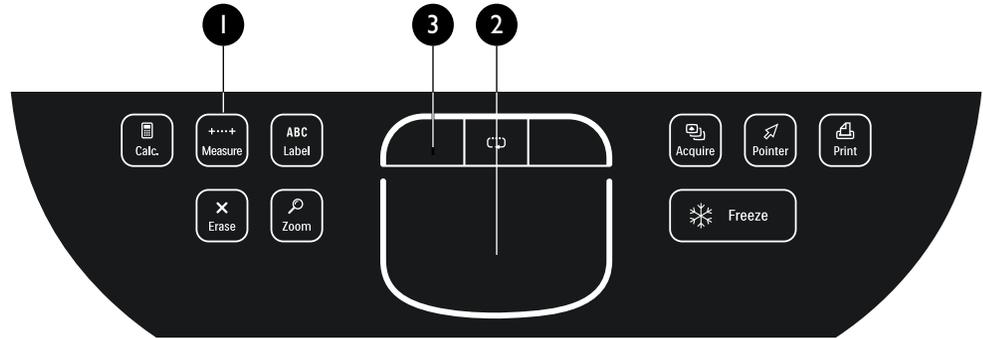
Right approach





## Single-Point Depth Measurements

- 1 Touch **Measure** to activate a caliper.
- 2 Use main trackpad to position caliper at any point on image.
- 3 Tap left trackpad to complete measurement.
- 4 Repeat for each additional single-point measurement.

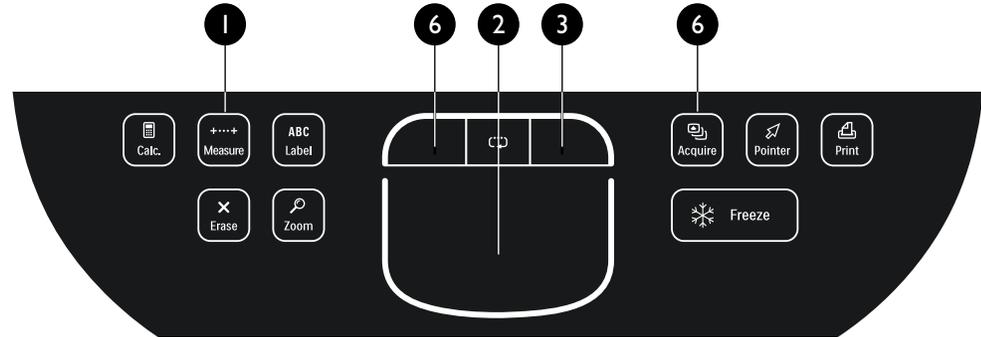


### NOTES

- Calipers are amber until the measurement is complete.
- To remove measurements, touch **Erase**. If a measurement is active (amber) **Erase** removes only the active measurement. If measurements are complete (white) **Erase** removes all measurements.
- Measurement results appear on the imaging display and continually update to reflect adjustments, until the measurement is complete.
- Depth measurements are not imported into the report, but they are acquired with the image.

## Linear Measurements

- ① Touch **Measure**.
- ② Use main trackpad to position caliper at beginning of measurement.
- ③ Tap  to set first caliper and activate second caliper.
- ④ Position second caliper at end point of measurement.
- ⑤ If start point needs adjustment, tap  and reposition first caliper.
- ⑥ To complete measurement, tap left trackpad, or to complete measurement and acquire image, touch **Acquire**.
- ⑦ Repeat for each additional linear measurement.

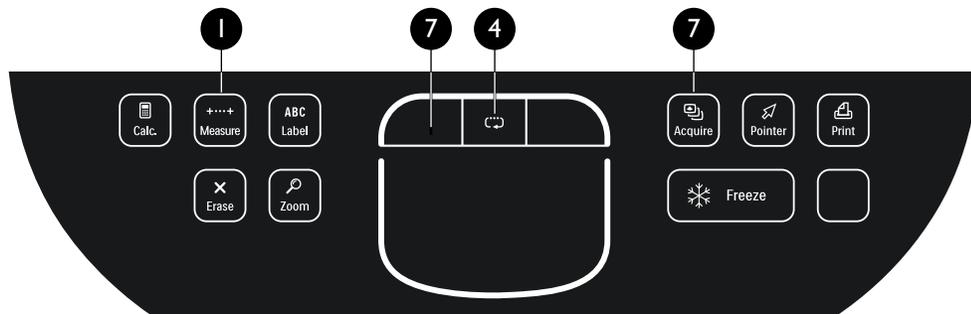


### NOTES

- Calipers are amber until the measurement is complete.
- To remove measurements, touch **Erase**. If a measurement is active (amber) **Erase** removes only the active measurement. If measurements are complete (white) **Erase** removes all measurements.
- Measurement results appear on the imaging display and continually update to reflect adjustments, until measurement is complete.
- Linear measurements are not imported into the report, but they are acquired with the image.

## Manual Trace Measurements

- 1 Touch **Measure**.
- 2 Press **Manual Trace** quick key control.
- 3 Use the main trackpad to position cursor at start point of trace area.
- 4 Tap  to anchor cursor.
- 5 To measure area and circumference, use main trackpad to trace region.
- 6 To measure length for a volume calculation, tap  to activate length cursor and use trackpad to position it.
- 7 To complete trace, tap left trackpad, or to complete measurements and acquire image, touch **Acquire**.



### NOTES

- Calipers are amber until the measurement is complete.
- To undo the trace (amber), touch **Erase**. If the trace is complete (white), **Erase** removes the trace and the measurements.
- Measurement results appear on the imaging display and continually update to reflect adjustments, until measurement is complete.
- Manual trace measurements are not imported into the report, but they are acquired with the image.

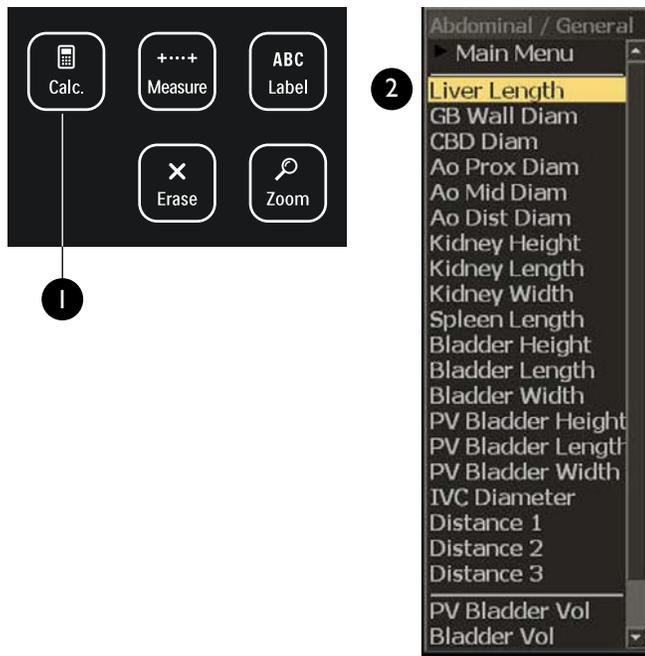


## Calculations

- 1 Touch **Calc.**
- 2 Select measurement or calculation. If needed, select **Main Menu** to view more choices.
- 3 Use the main trackpad to place the cursors and perform measurements required for the calculation. Calculation results appear on the imaging display.  
Calculations and corresponding measurements are imported into the report.

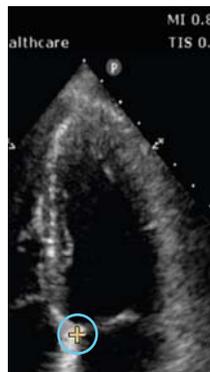
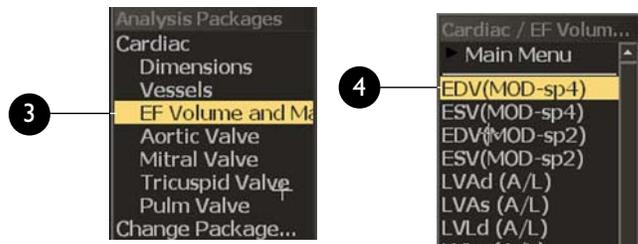
For information on completing measurements, see “Linear Measurements” on page 38 or “Manual Trace Measurements” on page 39.

For information on configuring the measurement and calculation lists, see the system *Help*.



### 3-Point Simpson's EF Calculation

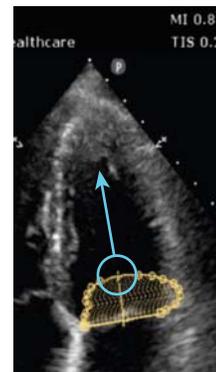
- ① Obtain apical four-chamber view. Reduce image depth to maximize LV size within sector. Touch **Freeze**.
  - ② Use main trackpad to scroll cine sequence to end-diastole. Touch **Calc**.
  - ③ Select **Main Menu** (if not already selected). From the **Cardiac** analysis packages, select **EF Volume and Mass**.
  - ④ Select **EDV (MOD-sp4)**.
  - ⑤ Position amber crosshair on medial annulus and tap  to anchor.
  - ⑥ Position second crosshair on lateral mitral annulus and tap  to anchor. Amber border template appears, indicating active mode.
  - ⑦ Use main trackpad to place apical point in correct position.
  - ⑧ Tap  to approve template. Approved template is white and can be edited.
- (Continued on next page)



5



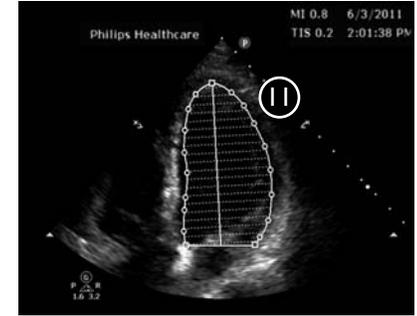
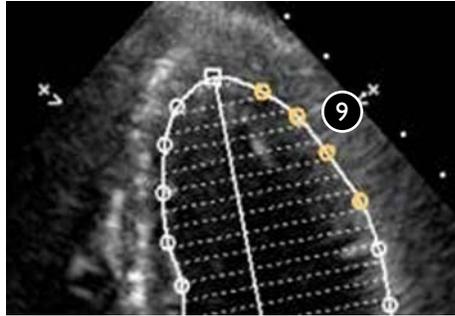
6



7

### 3-Point Simpson's EF Calculation (Continued)

- 9 To edit, hover over one or more points (points turn amber) and tap . Use main trackpad to drag points to new location.
- 10 To edit additional points, tap  and repeat step 9.
- 11 When you finish edits, tap left trackpad to complete. Volume appears on imaging display.
- 12 To remove the EDV template, touch **Erase**.
- 13 Tap  to activate 2D cine. Use main trackpad to scroll cine sequence to end-systole.
- 14 Tap  to return to **Cardiac** analysis menu. Select **ESV (MOD-sp4)** and repeat steps 5-11.



#### NOTES

- For greater accuracy, perform steps again for EDV MOD-sp2 and ESV MOD-sp2 measurements.
- Be careful not to foreshorten the LV.
- Use the same cardiac cycle for both diastolic and systolic volumes.
- Good visualization of endocardial borders is required for accuracy.



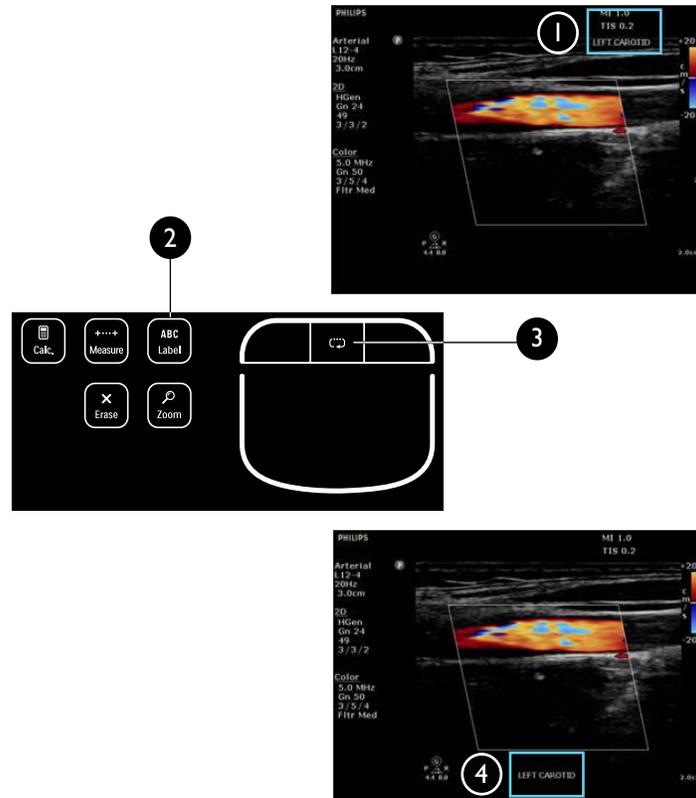
## Quick Text Entry

To enter text in the default home position:

- 1 Type free text using the keyboard. Text appears in home position (system default is upper-right area of the display).

To enter text anywhere on the display:

- 2 Touch **ABC Label** to enter annotation mode.
- 3 Tap  and position the cursor anywhere on the display.
- 4 Type free text using the keyboard, and then press **ABC Label** to exit annotation.



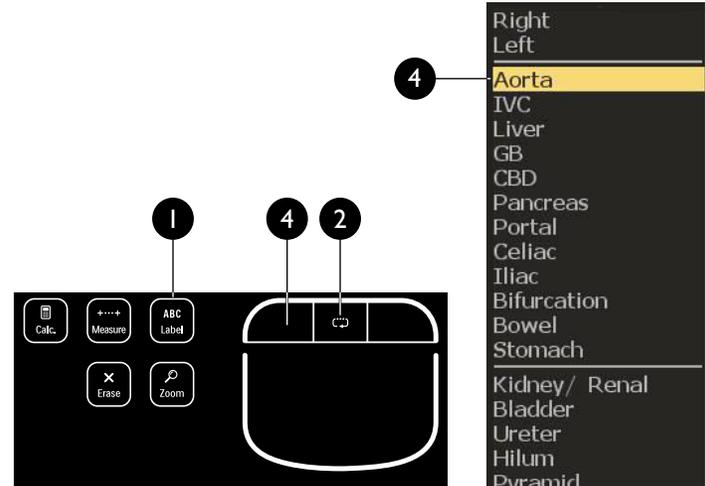
## Select Annotation Labels

Enter text on the display by using annotation lists, which include labels specific to each exam. Gray lines in the menu separate lists.

To select labels from a list menu:

- 1 Touch **ABC Label** to enter annotation mode.
- 2 Tap  and position cursor anywhere on the display.
- 3 Tap  to activate menu.
- 4 Highlight label in list and touch left trackpad to set label on display.
- 5 Repeat steps 2-4 as needed.
- 6 Touch **ABC Label** to exit annotation mode.

For information on configuring the annotation lists, see system *Help*.

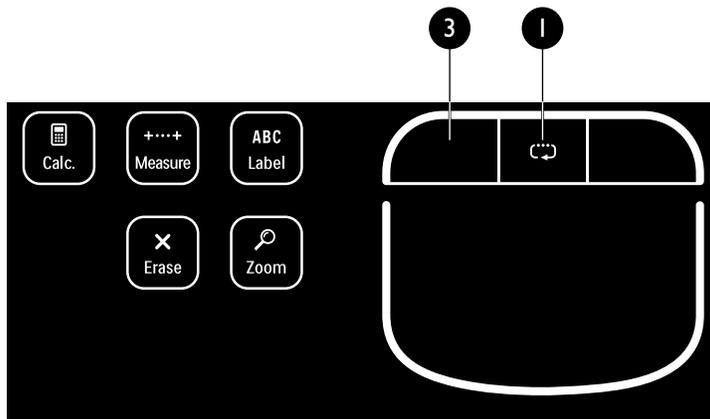


## Move or Erase Annotation Labels

To move or erase labels, annotation (**ABC Label**) must be active.

To move a label:

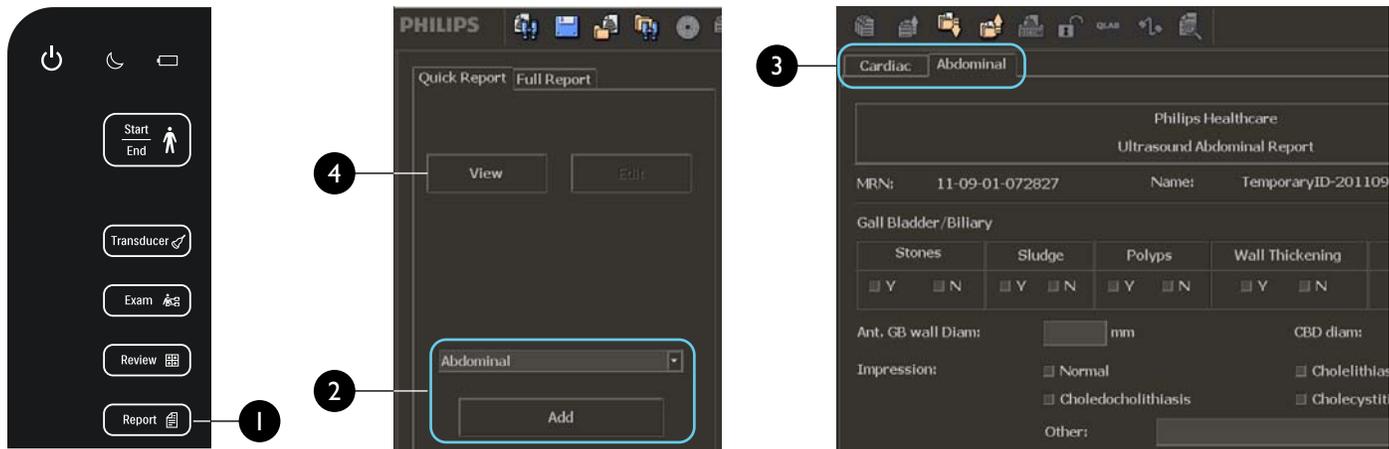
- 1 Tap  to activate cursor (cursor is amber).
- 2 Position cursor on label.
- 3 Tap left trackpad (label turns amber). Use main trackpad to move label.
- 4 Tap left trackpad again to set label at new location. Label turns white.
- 5 To erase an individual label, perform steps 1 and 2, and then touch **Erase**.





## Open Quick Report

- 1 Touch **Report**. The Quick Report for current exam opens in edit mode.
- 2 To add another Quick Report, select report type from menu and select **Add**.
- 3 Select tabs to display Quick Report for each exam.
- 4 To view generated report, select **View**.



## Edit Quick Report

To edit findings, impressions, and comments:

- 1 If report is not in edit mode, select **Edit** to enter or edit report data.
- 2 Select indications and findings using check boxes or text entry.
- 3 If needed, enter text in **Comments** field.
- 4 Enter clinician names. Manually entered names are saved and displayed in menu for subsequent selection. **Delete List** clears entire list, not individual entries.

### NOTE

Data entered in the Quick Report also appears in the Full Report.

The screenshot displays the Philips Ultrasound Cardiac Report interface. The top navigation bar includes 'General', 'Abdominal', and 'Cardiac' tabs. The main content area is titled 'Philips Healthcare Ultrasound Cardiac Report' and shows patient information: MRN: 123, Name: MS DOE, JANE A. The report is divided into several sections, each with a circled number indicating the editing step:

- 1** The 'Edit' button in the top left corner of the report area is highlighted.
- 2** The 'Indication' section, which includes checkboxes for CP, SOB, Hypotension, Trauma, and an 'Other' text field, is highlighted.
- 3** The 'Comments' section, which is a large text input area, is highlighted.
- 4** The 'Performed by' and 'Physician of record' fields, which include dropdown menus for clinician selection, are highlighted.

Other visible fields include 'Pericardial Effusion' (Yes, No, Indeterminate), 'Size' (Small, Moderate, Large), 'Tamponade Findings' (RV diastolic collapse, RA Systolic collapse, Inter-ventricular septum flattening, Lack of IVC Resp. variation), and 'Global LV Function' (Hyper-dynamic, Normal, Mild, Moderately reduced, Severely reduced). The 'RVLV ratio' section has checkboxes for <1:1 and >1:1.

## Edit Quick Report Measurements

Some labeled measurements are automatically included in a Quick Report.

To add or edit measurements:

① If report is not in edit mode, select **Edit**.

② Type or edit a measurement value as needed.

The last five entries for a measurement appear in the Full Report. A selector determines which one appears in the generated Quick Report and Full Report. For information on selecting the measurement value used in the reports, see the system *Help*.

Aorta

Prox Abd Aorta diam:  cm

Mid Abd Aorta diam:  cm

Distal Abd Aorta diam:  cm

Impression:  Aortic Aneurysm (>3.0) cm  Aortic Diameter (<3.0) cm

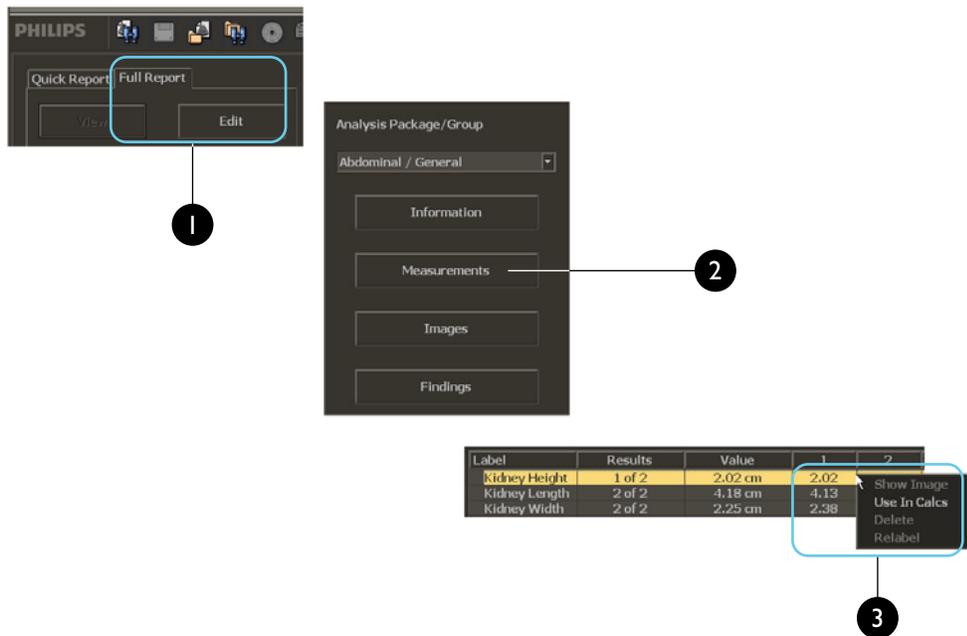
## Quick Report Calculations

Some calculations are included in Quick Reports. Calculations cannot be edited and are dimmed in the edit display of the report.

When multiple entries exist for a measurement, the selection in the Full Report determines the calculation value.

To select a measurement value to use in calculations:

- 1 Select **Full Report**, and then select **Edit**.
- 2 Select the analysis package, and then select **Measurements**.
- 3 Hover over the measurement value, tap right trackpad, and select **Use In Calcs**.



## Quick Report Content

To view the generated report, select **View**. Each Quick Report displays the following information with exam-specific indications:

- Institution name and logo (specified in **System** setups)
- Report type
- Patient name, gender, and MRN
- Study date
- Referring physician
- Indication

### NOTE

Images can be added only to a Full Report. Add images from Review.

Study ID: 284

Philips Healthcare  
Ultrasound Trauma Report

Name: DOE, JOHN      Study Date: 07/19/2011 04:29 PM  
MRN: 12345      Referring Physician: Dr. Jones  
Indication: Chest trauma

Mechanism:     Blunt     Penetrating    Trauma code:     1     2     3 (alert)

FAST Views	RUQ	LUQ	Suprapubic	Subcostal
Positive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Negative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Indeterminate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Lung Sliding	Right	Left
Positive	<input type="checkbox"/>	<input type="checkbox"/>
Negative	<input type="checkbox"/>	<input type="checkbox"/>
Indeterminate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Comments**  
Pericardial effusion present.

Performed by: S. Johnson      Clinician #2: Dr. Jones

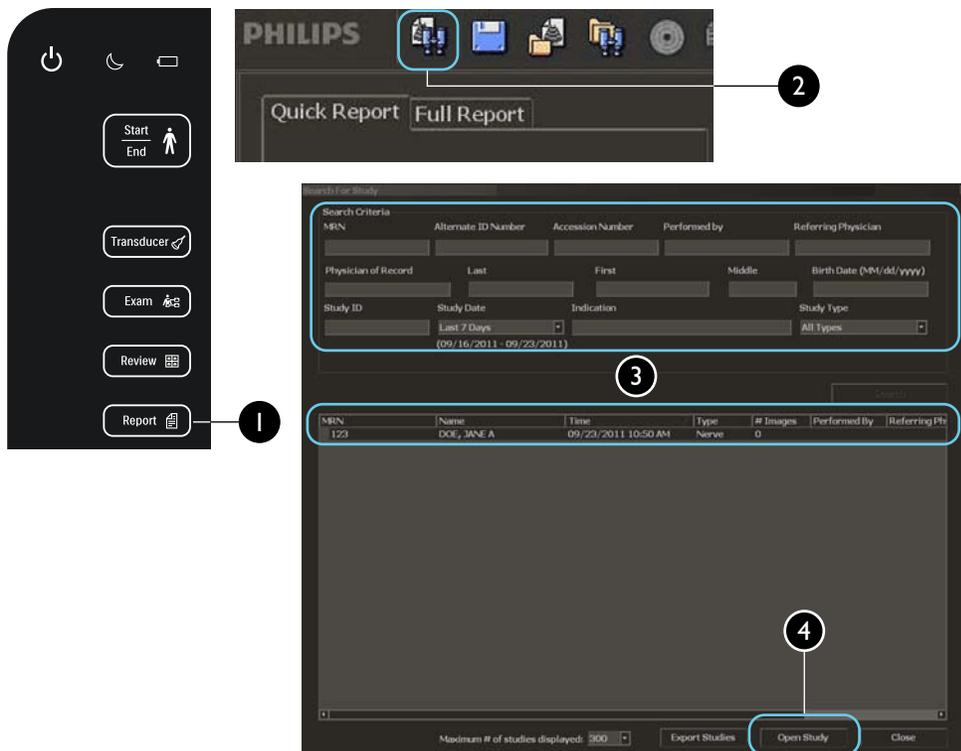
Physician Of Record: Dr. Smith

Physician Signature: \_\_\_\_\_

## View Report or Images from a Closed Study

To open a report from a closed study and see the associated images:

- 1 Touch **Report**.
- 2 Select  (Search for Study).
- 3 Select a study from displayed list, or enter data in a **Search Criteria** field (MRN, last name, study date, and so on) and then select **Search** to query the database.
- 4 Click **Open Study**. Study opens in Review, which displays all study images.
- 5 To display report again, touch **Report**.



## Barcode Scanner

The barcode scanner allows you to scan patient-identification barcodes.

The barcode scanner must be purchased from and enabled by Philips. Before use, the barcode scanner must be configured to recognize your institution's barcode symbology and the ultrasound system's data fields. For more information, see the instructions supplied with the barcode scanner.

When you scan a barcode, the institution's patient data populates the ultrasound system's **Patient Identification** data fields.

### NOTE

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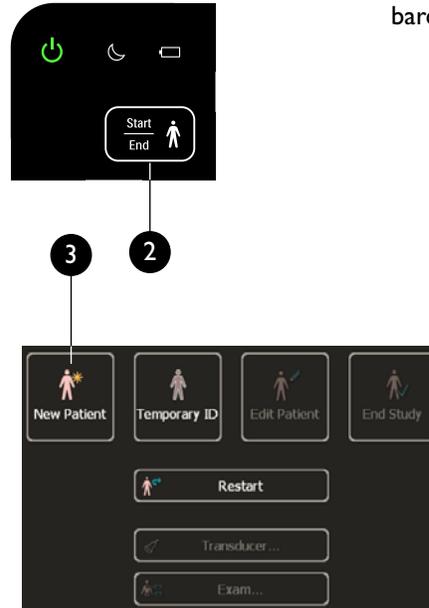
If only an MRN appears in the barcode, the system searches its database for a matching MRN. If the database contains a match, the system populates the associated data.

---



## Scan Patient Barcode

- 1 Connect the configured barcode scanner to any USB port on the system.
- 2 Touch **Start/End**.
- 3 Select **New Patient** to open the **Patient Identification** display.
- 4 Scan the patient's barcode to populate the **Patient Identification** fields with available data.
- 5 Type additional data, as needed.
- 6 Select a transducer and exam type, and begin imaging.



Before scanning barcode

This screenshot shows the 'Patient Identification' form before any data is entered. The form is divided into 'General' and 'Additional' sections. The 'General' section includes fields for Name (Last, Middle, First), Date of Birth (DOB), Title, Honorific, Accession Number, Birth Date (MM/dd/yyyy), Height (cm), Weight (kg), Gender (Unknown), and Performed by. The 'Additional' section includes fields for Referring Physician, Indication, Representation, Physician Of Record, and Study Description. The 'Patient History' section is currently empty.

After scanning barcode

This screenshot shows the 'Patient Identification' form after a barcode has been scanned. The form is populated with patient data. The 'General' section includes fields for Name (Last: 123, Middle: A, First: JANE), Date of Birth (DOB: 09/22/1973), Title: MS, Honorific, Accession Number, Birth Date (MM/dd/yyyy), Height (cm: 165), Weight (kg: 55), Gender (Female), and Performed by. The 'Additional' section includes fields for Referring Physician, Indication, Representation, Physician Of Record, and Study Description. The 'Patient History' section is currently empty.

## Barcode-Scanning Error Messages

<b>Warning/Error Message</b>	<b>Description</b>
Images have already been captured under a temporary id. In the current mode, the editable fields of the temporary id will be updated with this new information. Press 'New' to end the in-progress exam and start a new exam for this patient. Press 'Cancel' to ignore the new patient information and continue the current exam.	Describes options for using the barcode scanner to edit a temporary-ID study after images have been acquired.
<b>Unspecified Barcode Type</b> Please display the Patient Identification screen and rescan the Barcode.	Appears when you scan barcode before opening <b>Patient Identification</b> display.
<b>Unsupported Barcode Data Type</b> Scanning a barcode containing this type of information is not supported. If an appropriate data entry screen exists for this information, you may manually enter the information into that screen.	Appears when you scan barcode data that is not patient data.



## Clean the Air Filters

Heat damages electronic components. Dirty air filters reduce air flow, resulting in less cooling and higher internal system temperatures. Frequent cleaning of the air filters is important and prolongs system life. We recommend that the filters be cleaned every 2 to 4 weeks.

The system has two filters. Turn off the system before removing and cleaning the filters.

To clean the filter located on the left side of the cart under the base:

- 1 Locate filter and slide it out.
- 2 Clean filter using a damp, lint-free cloth.
- 3 Replace filter in filter holder.

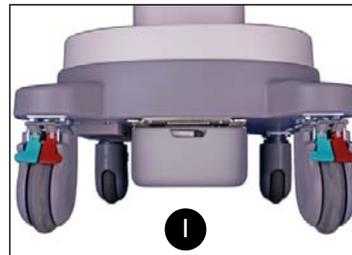
(Continued on next page)



## Clean the Air Filters (Continued)

To clean the filter located in the front of the cart under the base:

- 1 Locate the cover on the system between the wheels.
- 2 Use the finger holes at the top and bottom to remove the cover.
- 3 Slide filter out.
- 4 Clean filter using a damp, lint-free cloth.
- 5 Replace filter in filter holder.
- 6 Replace cover on mounting posts.





Philips Healthcare is part of Royal Philips Electronics

[www.healthcare.philips.com/ultrasound](http://www.healthcare.philips.com/ultrasound)

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smart phone to learn more.

